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Andrzej WITKOWSKI

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Maria Helena NOVAIS, Saúl BLANCO, Manuela
MORAIS, Lucien HOFFMANN & Luc ECTOR

Catalogue of continental diatoms
from Portugal, including the Archipelagos
of Azores and Madeira: updated nomenclature,
distribution and bibliography

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ABSTRACT

This catalogue aims to compile the information available on continental (recent and fossil) diatoms in Portugal, including the Archipelagos of Madeira and Azores, since the early beginnings of the diatom studies in Portugal at the middle of the XIXth century until 2010.

The diatom taxa are presented following an updated taxonomy; nevertheless, in order to provide a historical overview, the nomenclatural synonyms found in the literature from Portugal are also included. For all the 1381 taxa the following information is presented: basionym, nomenclatural synonyms, citations (with the precise indication of the sampling sites), frequent taxonomical synonyms and a distribution map.

RESUMO

Este catálogo tem como objectivo compilar a informação disponível sobre diatomáceas continentais (recentes e fósseis) de Portugal, incluindo os Arquipélagos da Madeira e dos Açores, desde que se iniciaram estes estudos em meados do século XIX até 2010.

Os táxones de diatomáceas são ordenados alfabeticamente e seguindo uma taxonomia actualizada, apesar de serem incluídos também os sinónimos nomenclaturais e taxonómicos mencionados na literatura consultada sobre Portugal. Para todos os 1381 táxones é apresentada a seguinte informação: basiónimo, sinónimos nomenclaturais, citações (com indicação exacta do local de amostragem), sinónimos taxonómicos mais comuns e um mapa de distribuição a nível de concelho.

1. INTRODUCTION

1.1. Objective and scope of this catalogue

This catalogue aims to compile the information available regarding the knowledge on continental (recent and fossil) diatoms in Portugal, including the Archipelagos of Azores and Madeira. It comprises information from diatom studies since the early beginnings of this subject in Portugal at the middle of the XIXth century until 2010.

Only non-marine diatoms were taken into account; therefore, only information regarding streams, rivers, fountains, sources, reservoirs, lakes, lagoons, ponds and upper reach of estuaries, where freshwater diatoms can be found, was included.

In this catalogue all kinds of diatom studies were considered, including reports, scientific papers, PhD thesis and post-doc studies. Works such as degree and master dissertations were excluded, due to the uncertainty of the identifications provided. Unfortunately, few documents, especially old scientific works with restricted distribution, could not be found although we were aware of their existence.

Although some of the information has already been presented in Aboal et al. (2003) about Mainland Portugal inside the Iberian Peninsula, we aimed to provide, whenever possible, the most precise information about the sampling site, as well as the information regarding the Archipelagos of Azores and Madeira. In addition, the known distribution of each taxon is documented by maps (presented in a separate volume). Furthermore, more than 120 additional references were included in this work.

1.2. Regions and subregions of Portugal

The ordination of the territory, according to the Nomenclature of Territorial Units for Statistics (NUTS), divides Portugal in the three units I, II and III. The first subdivision of Portugal (NUTS I) separates Mainland Portugal from the two autonomous regions of the Azores and Madeira Archipelagos. The second subdivision of Portugal (NUTS II) divides the country into five regions, administered by the Commissions for Coordination and Regional Development (*Comissões de Cooperação e Desenvolvimento Regional*) in mainland Portugal, plus the two autonomous regions that correspond to NUTS II regions. These 7 regions are subdivided into 30 subregions (*subregiões*, singular: *subregião*) (NUTS III). All regions (from the north to the south) with their subregions are listed alphabetically below.

1) REGION: NORTE

- Alto Trás-os-Montes (1)
- Ave (2)
- Cávado (3)
- Douro (4)
- Entre Douro e Vouga (5)
- Grande Porto (6)
- Minho-Lima (7)

- Tâmega (8)
- 2) REGION: CENTRO
- Baixo Mondego (9)
 - Baixo Vouga (10)
 - Beira Interior Norte (11)
 - Beira Interior Sul (12)
 - Cova da Beira (13)
 - Dão-Lafões (14)
 - Médio Tejo (15)
 - Oeste (16)
 - Pinhal Interior Norte (17)
 - Pinhal Interior Sul (18)
 - Pinhal Litoral (19)
 - Serra da Estrela (20)
- 3) REGION: LISBOA
- Grande Lisboa (21)
 - Península de Setúbal (22)
- 4) REGION: ALENTEJO
- Alentejo Central (23)
 - Alentejo Litoral (24)
 - Alto Alentejo (25)
 - Baixo Alentejo (26)
 - Lezíria do Tejo (27)
- 5) REGION: ALGARVE
- Algarve (28)
- 6) REGION: AUTONOMOUS REGION OF AZORES
- Autonomous Region of Azores (29)
- 7) REGION: AUTONOMOUS REGION OF MADEIRA
- Autonomous Region of Madeira (30)

The maps with the location of Mainland Portugal and the Archipelagos of Madeira and Azores, including the regions and subregions of the country, are presented in Figures 1 and 2.

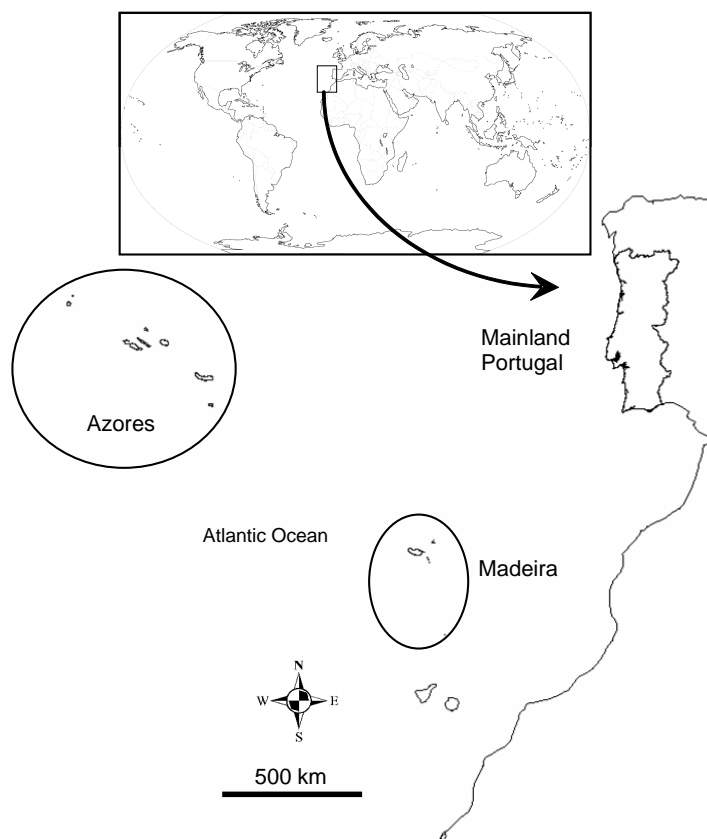


Fig. 1. Location of Mainland Portugal and the Archipelagos of Azores and Madeira.

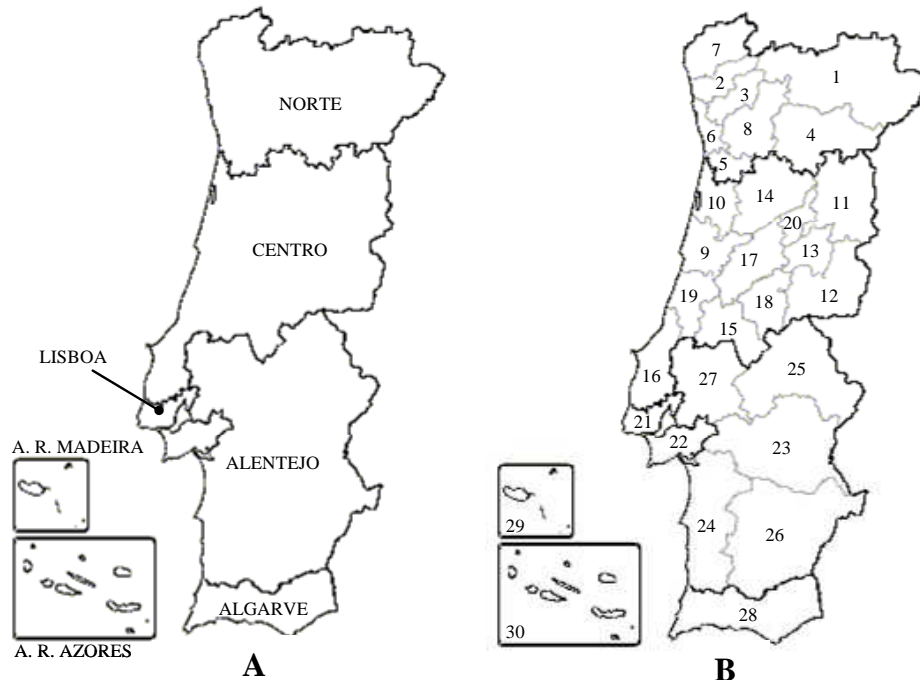


Fig. 2. Regions (A) and subregions (B) of Portugal. See number codes in the text.

1.3. Historic overview

1.3.1. Mainland Portugal

To our knowledge, the first records of freshwater diatoms from Portugal have been published by Ehrenberg in 1845a and consist in few diatoms identified from material collected in the riverbanks of Tagus river. Afterwards, Colmeiro in 1867 and 1889 also mentioned a few diatom species collected in Coimbra and Porto in his major work including the whole Iberian Peninsula.

Therefore, the first studies considering only Portugal have started at the end of the XIXth century, due to the initiatives promoted by Dr. Júlio Henriques, at that time director of the Botanical Garden of Coimbra and of the Sociedade Broteriana. The latter is a Society created in honour of Brotero (a notable Portuguese botanist) that still exists nowadays and produces the *Boletim da Sociedade Broteriana*. It which has first been published in 1880 and has embraced the first published studies on diatoms in Portugal.

The Sociedade Broteriana promoted phycological studies at the turn of the XIXth century by encouraging the collection and interchange of botanical specimens that were later identified by international experts as Hauck and Kützing (Santos et al. 2002). Most of these diatoms were collected by Moller (supervisor of the Coimbra Botanical Garden at that time) and by Newton (administrator of the Sociedade de Instrução do Porto).

At the beginning of the XXth century, several important contributions to the knowledge of diatoms in Portugal were made. Zimmermann, for example, published the *Catálogo das Diatomáceas Portuguesas* subdivided in several Centurias (Zimmermann 1906, 1909b, 1910, 1914), as well as the *Algumas diatomáceas novas ou curiosas* (Zimmermann 1915a, 1917). At that time, the studies were mainly taxonomical and the sampling was indiscriminately performed in every type of substrate or water body, by the researcher, his friends or collaborators. Fausto Lopo de Carvalho published a more detailed study about the *Diatomáceas da Guarda* (Carvalho 1913), with samples collected in rivers, sources and fountains in the central region of Portugal.

In the middle of the XXth century, Alfredo Andrade Silva, working at the Botany Institute Dr. Gonçalo Sampaio (University of Porto) also significantly contributed to the knowledge of diatoms in the country. His works included the study of fossil and recent freshwater diatoms collected in Rio Maior, Alpiarça and Óbidos deposits (Silva 1945, 1946b), Serra do Gerês (Silva 1950a), and Porto (Silva 1950b).

Afterwards, in the beginning of the second half of the XXth century several studies on algae were made, although not only focused on diatoms, but including the total phytoplankton. Arnold Nauwerck published the results about a survey of planktonic algae, including diatoms, from several reservoirs from the whole country (Nauwerck 1959, 1962). Maria do Rosário Oliveira followed this trend, publishing several studies about phytoplankton in different rivers and reservoirs from the whole country (Azores included). There was not any particular attention given to diatoms although this group is present in the floristic lists presented (Oliveira 1971a, 1971b, 1975, 1976, 1981, 1982a, 1982b, 1982c, 1984a, 1984b, 1984c, 1985, 1987, 1989, 1991, 1992, 1996; Oliveira & Caldas 1970, 1971; Oliveira et al. 1985; Oliveira et al. 1989; Oliveira & Coutinho 1992; Oliveira & Monteiro 1992, 1993a, 1993b, 1995).

Since the end of the XXth century, due to contributions by the researchers from the University of Aveiro, several works about the freshwater diatoms of the central region of Portugal have been published (Almeida 1998, 2001; Almeida & Gil 2000, 2001; Feio et al. 2009; Gil 1988, 1989, 1993; Gil et al. 1989-1990, 1991; Gil & Almeida 1993; Nunes 2007; Nunes et al. 2002, 2003; Rino & Gil 1989). These works are focused not only on floristic and taxonomy, but also on ecology and the use of diatoms as bioindicators.

The evolution of studies number and their annual accumulation from 1845 to 2010 made in Mainland Portugal is graphically represented in Figures 3 and 4, respectively. Furthermore, the increase of total taxa cited for the country is presented in Figure 5.

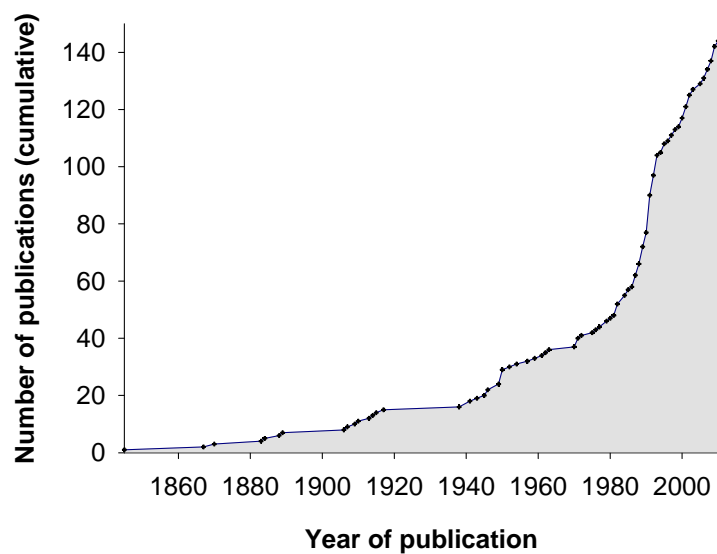


Fig. 3. Evolution of the number of publications with diatoms for Mainland Portugal.

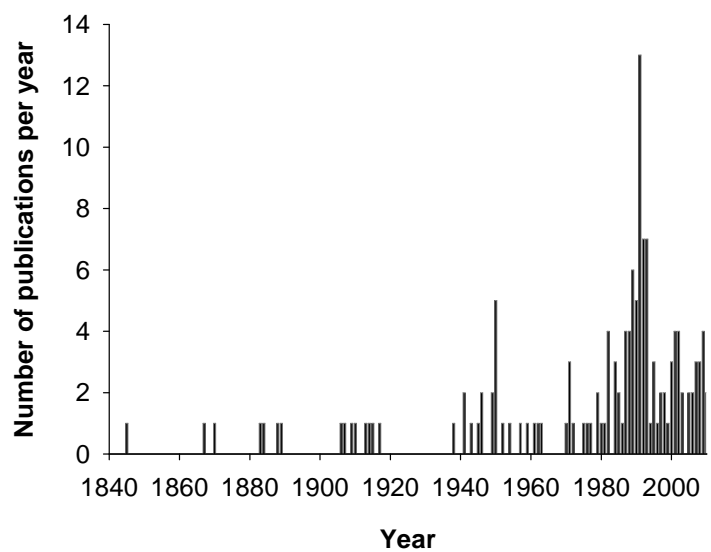


Fig. 4. Number of publications with diatoms for Mainland Portugal per year.

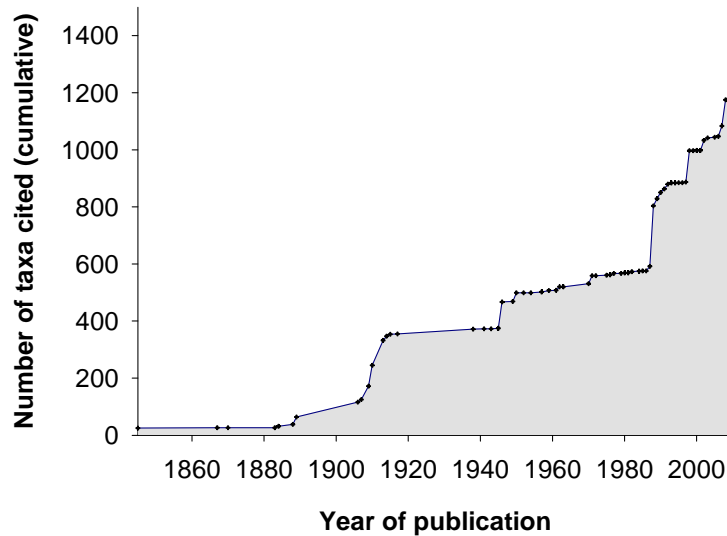


Fig. 5. Evolution of the total number of diatom taxa cited for Mainland Portugal.

1.3.2. Madeira and Azores Archipelagos

As regards the Madeira Archipelago, very few references about diatoms exist. The first works known date back to the beginning of the XXth century. These studies were mainly realized by Zimmermann (1909a, 1910-1911). However, some references about diatoms from the Madeira Archipelago can also be found in the compilation made by Tempère & Peragallo (1907-1915). Later, Schodduyn (1927) published his *Contribution pour l'hydrobiologie des Îles de Funchal et Porto Santo*, based on samples collected by Carlos Menezes. Subsequently, Mölder (1947) also mentioned some freshwater diatom species from Madeira in his work about algae from the Azores. In the last decades, no reports about freshwater algae from this Archipelago have been published. Consequently, only a few diatom records are available from this period, presented in general books, such as Krammer & Lange-Bertalot (1986, 1991b).

The Azores Archipelago has become an area of scientific interest at the end of the XIXth century, when several renowned North American and European naturalists visited the Archipelago during their scientific expeditions. Nevertheless, the majority of these pioneering works were limited in scope and only included few species of freshwater algae (e.g. Archer 1874; Moseley 1874; O'Meara 1874), excepting the work of Holmboe (1901), which was the first deep study of the freshwater diatoms of the archipelago. In the decades of 1930 and 1940, more exhaustive studies were published, such as those of Krieger (1931), Manguin (1942), Bourrelly & Manguin (1946a, 1946b) and Mölder (1947). More recently, a number of works were published from expeditions of University of Azores researchers to several islands (Gonçalves 1996; Azevedo et al. 2005). Nevertheless, it is important

to mention that the majority of the available works obviously refer to the natural lakes, which are the most important and emblematic freshwater resources of the Archipelago (Oliveira 1989; Gonçalves 1996, 1997; Gonçalves & Rodrigues 1999; Gonçalves 2008). Recently a compilation of the diatoms cited for the Archipelago has been published and these results are also here included (Gonçalves et al. 2010). The evolution in publications number including diatoms from the Azores Archipelago is graphically represented in Figure 6. Furthermore, the increase of total taxa cited for the archipelago is presented in Figure 7.

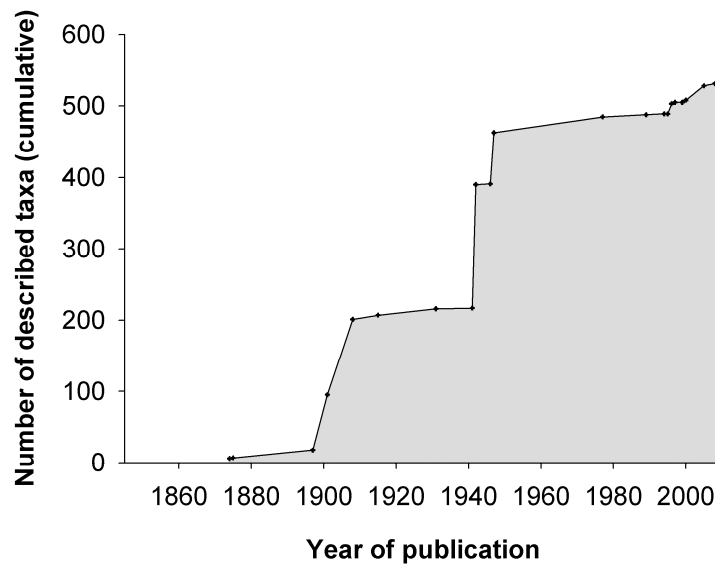


Fig. 6. Evolution of the number of publications with diatoms for the Azores Archipelago.



Fig. 7. Evolution of the total number of diatom taxa cited for the Azores Archipelago.

1.4. Geographic overview

To provide information about the geographic areas which have been deeper studied regarding diatoms, a map with the number of records for each municipality is presented in Figure 8. From the analysis of the map is evident that more than 50% of the territory is unexplored, which shows the lack of studies about diatoms in the country. Despite of the efforts done within the implementation of the Water Framework Directive in Portugal, which covered the entire territory, these results are not observable here. Until now, the only published work with this results for the whole country was INAG I.P. (2008), which is a sampling protocol without precise indication on the distribution of the species.

This lack of diatom studies in the country can be also seen in the distribution maps for each species. Therefore, the fact that some species present a more restrict distribution doesn't always mean that they are not present in other regions, but also that there are no deep studies done in those areas.

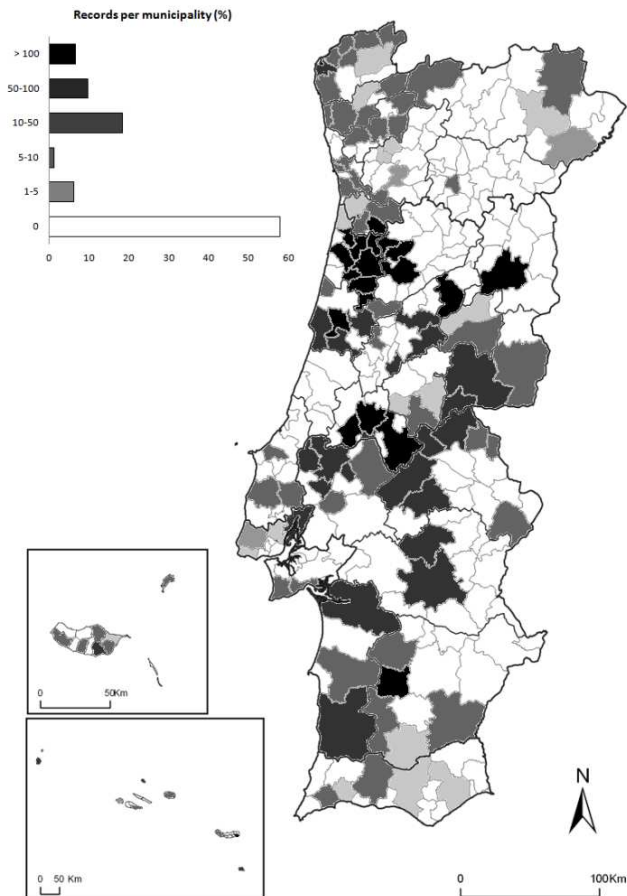


Fig. 8. Number of records per municipality (%).

2. ACKNOWLEDGEMENTS

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We gratefully acknowledge all the colleagues and staff of several libraries for the valuable assistance in gathering the publications analyzed.

Sara Leitão is thanked for her assistance in finding several useful publications, Mauricio Montaña Garcés and Núria Martínez-Carreras are thanked for text revision and editing and Olatz Aizpurua for GIS assistance.

3. CATALOGUE

The total number of taxa listed in this catalogue is of 1381, compiled from the 173 publications considered. For the accepted diatom names, the information provided in the Catalogue of Diatom Names (2010) by the California Academy of Sciences: <http://research.calacademy.org/research/diatoms/names/> is followed. This aims to avoid the repetition of taxa under different synonyms. In addition to these names, the **basionym** and the **nomenclatural synonyms** mentioned in the publications checked are provided. Nevertheless, to avoid the loss of important information and to allow also an historical overview, the literal name used for each species in the original publication is placed after the authors of the publication. The **taxonomical synonyms** are presented according to the most common bibliographic references, such as Krammer & Lange-Bertalot (1986, 1988, 1991a, 1991b) and Krammer (1997a, 1997b, 2000). Nevertheless these synonyms are kept separately, since there is still a need of further studies to confirm the validity of this synonymy.

The taxa are listed alphabetically rather than following a systematic ordination in order to facilitate the search, especially due to the huge number of pages.

Each taxon is presented, whenever possible, by the exact sampling site mentioned in the literature. The information about the **distribution** of each species follows the following scheme:

REGION

Subregion

Municipality (District)

Site

Reference.

The information about the District is also included, because it is still a well-known and easily recognizable geographical division in Portugal. Each site also refers to the watercourse and the hydrographical basin to which it belongs to ease the understanding of the information provided, and moreover because this information can be useful for the main international basins, as Tagus/Tajo, Douro/Duero, Minho/Miño, Lima/Limia, Tâmega/Tâmega and Guadiana.

Maps with the municipalities where each taxon has been cited, showing the geographical distribution of each taxon in Mainland Portugal and the Madeira and Azores Archipelagos, are included in a separate volume and their respective figure numbers are presented together with the Distribution.

***Acanthoceras* Honigmann 1910**, p. 76
[CAS ref. 000487]

***Acanthoceras zachariasii* (Brun) Simonsen 1979**, p. 55 [CAS ref. 003160]

Basionym: *Attheya zachariasii* Brun 1894 [CAS ref. 002403]

Distribution (Fig. 9):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Acanthoceras zachariasii* (Brun) Simonsen)

***Achnanthes* Bory 1822**, p. 79, 593 (vol. 1)
[CAS ref. 000145]

***Achnanthes andicola* (Cleve) Hustedt 1911**, p. 279; pl. 2, fig. 23, 24
[CAS ref. 000492]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Achnanthes andicola* (Cleve) Hustedt)

***Achnanthes brevipes* C. Agardh 1824**, p. 1 [CAS ref. 000102]

Distribution (Fig. 10):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthes brevipes*)

***Achnanthes brevipes* var. *intermedia* (Kützing) Cleve 1895**, p. 193
[CAS ref. 000949]

Basionym: *Achnanthes intermedia* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 11):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Achnanthes intermedia* Kg.)

***Achnanthes brevipes* var. *minor* H. Peragallo in Peragallo & Peragallo 1897**, pl. 1, fig. 16-18 [CAS ref. 001052]

Distribution (Fig. 12):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Viana do Castelo

Reference: Zimmermann 1910 (as *Achnanthes brevipes* Ag. var. *minor* Per.)

***Achnanthes coarctata* (Brébisson ex W. Smith) Grunow in Cleve & Grunow 1880**, p. 20 [CAS ref. 000241]

Basionym: *Achnanthidium coarctatum* Brébisson ex W. Smith 1855 [CAS ref. 000864]

Distribution (Fig. 13):

REGION: NORTE

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Not Specified

Reference: Zimmermann 1910 (as *Achnanthes coarctata* (Bréb.) Grun.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

- Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Achnanthes coarctata* (Brébisson) Grunow)
- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Achnanthes coarctata* Brébisson); Gil et al. 1989-1990 (as *Achnanthes coarctata*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
- Municipality: Anadia (District: Aveiro)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes coarctata*)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes coarctata*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Achnanthes coarctata* de Brébisson)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes coarctata* (Brébisson) Grunow)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes coarctata*)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes coarctata* (Brébisson) Grunow)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes coarctata*)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Achnanthes coarctata* (Bréb.) Grun.);
Santos & Carvalho 2001 (as *Achnanthes coarctata* (Bréb.) Grun.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Achnanthes coarctata* (Bréb.) Grun.)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes coarctata* (Brébisson) Grunow)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes coarctata* Brébisson)

Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Achnanthes coarctata* (Breb.) Grun.)

Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes coartacta* (Brébisson) Grunow)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Achnanthes coartacta* (Brébisson) Grunow)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Achnanthes coarctata*)

REGION: LISBOA
Subregion: Península de Setúbal
Municipality: Setúbal (District: Setúbal)
Site: Comenda
Reference: Zimmermann 1910 (as *Achnanthes coarctata* (Bréb.) Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Achnanthes coarctata* Bréb.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Achnanthes coarctata*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthes coarctata* (Brebisson) Grunow)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Achnanthes coarctata* (Brebisson) Grunow)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Achnanthes coarctata* (Brebisson) Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnanthes coarctata* (Brebisson) Grunow)

Site: Not Specified

Reference: Gonçalves 2008 (as *Achnanthes coarctata* (Brébisson) Grunow)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Ponte do Espírito Santo

Reference: Zimmermann 1910-1911 (as *Achnanthes coarctata* (Bréb.) Grun.)

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço

Reference: Zimmermann 1909a (as *Achnanthes coarctata* (Bréb.) Grun.)

***Achnanthes coarctata* var. *elliptica* Krasske 1929**, p. 351; fig. 20 c
[CAS ref. 000582]

Distribution (Fig. 14):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Achnanthes coarctata* (Bréb.) Grun. var. *elliptica* Krasske); Bourrelly & Manguin 1946a (as *Achnanthes coarctata* (Bréb.) Grun. var. *elliptica* Krasske)

Achnanthes conspicua var. *brevistriata* Hustedt 1930, p. 202; fig. 292 [CAS ref. 000502]

Distribution (Fig. 15):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Achnanthes conspicua* v. *brevistriata* Hust.)

Municipality: Not Specified

Site: Pico Island

Reference: Johansson 1977 (as *Achnanthes conspicua* v. *brevistriata* Hust.)

Achnanthes crucifera Østrup 1910, p. 130; pl. 4, fig. 84 [CAS ref. 000706]

Distribution (Fig. 16):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthes crucifera* (?))

Achnanthes elata (Leuduger-Fortmorel) H.P. Gandhi 1960, p. 82; fig. 3-7, 10 [CAS ref. 000377]

Basionym: *Navicula elata* Leuduger-Fortmorel 1879 [CAS ref. 000606]

Nomenclatural synonym: *Achnanthes inflata* var. *elata* (Leuduger-Fortmorel) Hustedt 1937a [CAS ref. 001012]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Lange-Bertalot & Krammer 1989 (as *Achnanthes inflata* var. *elata* Leuduger-Fortmorel); Krammer & Lange-Bertalot 1991b (as *Achnanthes elata* (Leuduger-Fortmorel) Gandhi); INAG I.P. 2008 (as *Achnanthes inflata* (Kutzing) Grunow var. *elata* (Leud.-Fortmorel) Hustedt)

***Achnanthes exigua* var. *elliptica* Hustedt 1937a**, p. 197; pl. 9, fig. 8, 9 [CAS ref. 001012]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Achnanthes exigua* var. *elliptica* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes exigua* Grunow var. *elliptica* Hustedt)

***Achnanthes gibberula* Grunow in Cleve & Grunow 1880**, p. 22 [CAS ref. 000241]

Distribution (Fig. 17):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Achnanthes gibberula* Grunow); Gil et al. 1989-1990 (as *Achnanthes gibberula*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes gibberula* Grunow); Gil et al. 1989-1990 (as *Achnanthes gibberula*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes gibberula* Grunow)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Achnanthes gibberula*)

***Achnanthes grimmei* Krasske 1925**, p. 30; pl. 1, fig. 10 [CAS ref. 000580]

Synonym: *Achnanthes thermalis* (Rabenhorst) Schönfeldt 1907 [CAS ref. 000808], according to Krammer & Lange-Bertalot 1991b, p. 52

Distribution (Fig. 18):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (*Achnanthes grimmei* Krasske)

***Achnanthes inflata* (Kützing) Grunow 1867**, p. 7 [CAS ref. 000432]

Basionym: *Stauroneis inflata* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 19):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes inflata* (Kützing) Grunow)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes inflata* (Kützing) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Achnanthes inflata* (Kütz.) Grun.);

Bourrelly & Manguin 1946a (as *Achnanthes inflata* (Kütz.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Achnanthes inflata* Kütz.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthes inflata* (Kützing) Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnanthes inflata* (Kützing) Grunow)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Achnanthes inflata* (Kuetz.) Grun.)

Site: Ribeira de São João, Sítio da Pena

Reference: Zimmermann 1909a (as *Achnanthes inflata* (Kuetz.) Grun.)

Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream

Reference: Zimmermann 1910-1911 (as *Achnanthes inflata* (Kuetz.) Grun.)

Achnanthes lanceolata var. *capitata* O. Müller 1909, p. 8; pl. 1, fig. 6-7 [CAS ref. 001777]

Distribution (Fig. 20):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *capitata* O. Müll.)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *capitata* O. Müll.); Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *capitata*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *capitata*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *capitata*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *capitata* O. Müll.)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *capitata* O. Müll.)

Achnanthes lanceolata var. *omissa* Reimer in Patrick & Reimer 1966, p. 272; pl. 18, fig. 16, 17 [CAS ref. 003167]

Synonym: *Planothidium joursacense* (Héribaud) Lange-Bertalot 1999a [CAS ref. 0012674], according to Lange-Bertalot 1999, p. 283

Distribution (Fig. 21):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Achnanthes lanceolata omissa*)

Achnanthes lanceolata var. *ventricosa* **Hustedt 1914**, p. 64; pl. 2, fig. 32 [CAS ref. 000493]

Distribution (Fig. 22):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt); Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *ventricosa*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *ventricosa* Hustedt)

Achnanthes lineariformis **Lange-Bertalot 1993**, p. 7 [CAS ref. 008467]

Nomenclatural synonym: *Achnanthes linearioides* Lange-Bertalot in Lange-Bertalot & Moser 1994 [CAS ref. 006662]

Distribution (Fig. 23):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Achnanthes linearioides* Lange-Bertalot)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthes linearioides* Lange-Bertalot)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Achnanthes linearioides* Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnanthes linearioides* Lange-Bertalot)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Achnanthes linearioides* Lange-Bertalot)

Formatada: Inglês Unido)

***Achnanthes longipes* C. Agardh 1824**, p. 1 [CAS ref. 000102]

Distribution (Fig. 24):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthes longipes*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthes longipes*)

Código de campo a

***Achnanthes longipes f. lata* C. Zimmermann 1910**, p. 99 [CAS ref. 010980]

Distribution (Fig. 25):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Viana do Castelo

Reference: Zimmermann 1910 (as *Achnanthes longipes* Ag. forma *lata*)

***Achnanthes lutheri* Hustedt 1933**, p. 405; fig. 858 [CAS ref. 000507]

Distribution (Fig. 26):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthes lutheri* Hustedt)

***Achnanthes minima* Carter 1961**, p. 21; fig. 65, 66 [CAS ref. 003620]

Distribution (Fig. 27):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthes minimum*)

***Achnanthes minutissima* var. *cryptocephala* Grunow in Van Heurck 1880**, pl. 27, fig. 41-44 [CAS ref. 000895]

Synonym: *Achnanthes minutissima* Kützing 1833 [CAS ref. 000594], according to Krammer & Lange-Bertalot 1991b, p. 56

Distribution (Fig. 28):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes minutissima* Kützing v. *cryptocephala* Grunow)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Achnanthes minutissima* v. *cryptocephala*)
- REGION: AUTONOMOUS REGION OF AZORES**
 Municipality: Horta (Faial Island)
 Site: Not Specified
 Reference: Johansson 1977 (as *Achnanthes minutissima* v. *cryptocephala* Grun.)
 Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.)

- Site: Lagoa Grande
Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.)
- Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.)
- Municipality: Povoação (São Miguel Island)
- Site: Lagoa das Furnas
References: Manguin 1942 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.); Bourrelly & Manguin 1946a (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.); Mölder 1947 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.)
- Site: Pico Verde
References: Manguin 1942 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.); Bourrelly & Manguin 1946a (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.)
- Site: Ribeira Quente
References: Manguin 1942 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.); Bourrelly & Manguin 1946a (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.)
- Municipality: Vila do Porto (Santa Maria Island)
- Site: Not Specified
References: Manguin 1942 (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.); Bourrelly & Manguin 1946a (as *Achnanthes minutissima* Kütz. *cryptocephala* Grun.)

***Achnanthes minutissima* var. *jackii* (Rabenhorst) Lange-Bertalot & Ruppel 1980**, p. 18, 20; fig. 113-125, 133-202, 305-310, 332-338 [CAS ref. 008475]

Basionym: *Achnanthidium jackii* Rabenhorst 1861a [CAS ref. 011621]

Distribution (Fig. 29):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes et al. 2003 (as *Achnanthes minutissimum* Kützing var. *jackii* (Rabenhorst) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes minutissimum* Kützing var. *jackii* (Rabenhorst) Lange-Bertalot); Nunes 2007 (as *Achnanthidium minutissimum* Kützing var. *jackii* (Rabenhorst) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Achnanthidium minutissimum* Kützing var. *jackii* (Rabenhorst) Lange-Bertalot)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthidium minutissimum* Kützing var. *jackii* (Rabenhorst) Lange-Bertalot)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthidium minutissimum* Kützing var. *jackii* (Rabenhorst) Lange-Bertalot)

***Achnanthes parvula* Kützing 1844**, p. 76; pl. 21, fig. 5 [CAS ref. 000595]

Distribution (Fig. 30):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (as *Achnanthes parvula* Kuetz.)

***Achnanthes ploenensis* var. *gessneri* (Hustedt) Lange-Bertalot in Lange-Bertalot & Krammer 1989**, p. 122; fig. 41: 8-17, fig. 44: 4, 5 [CAS ref. 006174]

Basionym: *Achnanthes gessneri* Hustedt 1953 [CAS ref. 000526]

Nomenclatural synonym: *Achnanthes ploenensis* var. *gessneri* (Hustedt) Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Kolbesia gessneri (Hustedt) Aboal in Aboal et al. 2003 [CAS ref. 012666]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes ploenensis* Hustedt var. *gessneri* (Hustedt) Lange-Bertalot)

Achnanthes rupestoides M.H. Hohn 1961, p. 154; pl. 1, fig. 3-4
[CAS ref. 000485]

Distribution (Fig. 31):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes rupestoides* Hohn)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes rupestoides* Hohn)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes rupestoides* Hohn)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes rupestoides* Hohn)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes rupestoides* Hohn)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes rupestoides* Hohn)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthes rupestoides* Hohn)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Achnanthes rupestoides* Hohn)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnanthes rupestoides* Hohn)

Achnanthes saxonica Krasske in Hustedt 1933, p. 403; fig. 854B
[CAS ref. 000507]

Synonym: *Karayevia oblongella* (Østrup) Aboal in Aboal et al. 2003 [CAS ref. 012666], according to Lange-Bertalot & Krammer 1989, p. 135

Distribution (Fig. 32):

REGION: NORTE

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Achnanthes saxonica*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)

Municipality: Aveiro (District: Aveiro)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)
- Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)
- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes saxonica*)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Achnanthes saxonica* Krasske)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Achnanthes saxonica*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes saxonica* Krasske)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes saxonica* Krasske); Gil et al. 1989-1990 (as *Achnanthes saxonica*)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Achnanthes saxonica* Krasske); Gil et al. 1991 (as *Achnanthes saxonica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Achnanthes saxonica* Krasske)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Achnanthes saxonica* Krasske)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Achnanthes saxonica* Krasske)
Site: Pico da Vara
Reference: Mölder 1947 (as *Achnanthes saxonica* Krasske)

***Achnanthes sphacelata* J.R. Carter 1970**, p. 611; pl. 1, fig. 41-44
[CAS ref. 003967]

Distribution (Fig. 33):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes sphacelata* Carter)

***Achnanthes subsessilis* Kützing 1833**, p. 576, fig. 55 [CAS ref. 000594]

Distribution (Fig. 34):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Achnanthes subsessilis*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)
Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (as *Achnanthes subsessilis* Kuetz.)

***Achnanthes* sp.**

Distribution (Fig. 35):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira et al. 1985 (as *Achnanthes* spp.)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1985 (as *Achnanthes* spp.)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1985 (as *Achnanthes* spp.)

Subregion: Minho-Lima

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Achnanthes* sp.)

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Achnanthes* sp.)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Achnanthes* sp.)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Achnanthes* sp.)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)

Site: Barragem de Covas, Coura River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Achnanthes* sp.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthes* spp.)

Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Achnanthes* sp.); Cerqueira da Silva et al. 1993 (as *Achnanthes* sp.); Cerqueira da Silva 1994 (as *Achnanthes* sp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
Reference: Andrade & Brito 1995 (as *Achnanthes* sp.)

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)

Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Achnanthes* sp.)

Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Achnanthes* spp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)

Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)

Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Achnanthes* spp.); Brito & Andrade 1992 (as *Achnanthes* spp.)

Subregion: Not Specified

Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Achnanthes* sp.)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes* spp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Achnanthes* sp.)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Machico (District: Funchal)
Site: Fonte de São Roque, Machico Stream
Reference: Schodduyn 1927 (as *Achnanthes* spp.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Achnanthes* sp.)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes* sp.)

***Achnantheidium* Kützing 1844, p. 75**
[CAS ref. 000595]

***Achnantheidium biasolettianum* (Grunow in Cleve & Grunow)
Lange-Bertalot 1999a, p. 276 [CAS ref. 012674]**

Basionym: *Achnanthes biasoletiana* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 36):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes biasoletiana* Grunow var. *biasoletiana* Grunow in Cleve & Grun.)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow in Cleve & Grun.)
 Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow in Cleve & Grun.)
 Site: Ribeira de Fráguas (Palhal Mine) Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow in Cleve & Grun.)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Achnanthes biasolettiana* Grunow); Nunes 2007 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow in Cleve & Grun.)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes et al. 2003 (as *Achnanthes biasolettiana* Grunow)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow in Cleve & Grun.)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow in Cleve & Grun.)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Feio et al. 2007 (as *Achnanthes biasolettiana*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Achada
 Reference: Mölder 1947 (as *Achnanthes biasolettiana* Kütz.)
 Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Mölder 1947 (as *Achnanthes biasolettiana* Kütz.)
 Municipality: Povoação (São Miguel Island)
 Site: Lagoa das Furnas
 Reference: Mölder 1947 (as *Achnanthes biasolettiana* Kütz.)
 Municipality: Not Specified
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Achnanthidium biasolettianum* (Grunow) Lange-Bertalot)
 Site: Terceira Island
 Reference: Gonçalves et al. 2010 (as *Achnanthidium biasolettianum* (Grunow) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Achnanthes biasolettiana* Kütz.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow)
Site: North-South Transition Rivers and Mountain Rivers in the South
Reference: Morais et al. 2009 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow)
Site: Rivers in the North
Reference: Morais et al. 2009 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes biasolettiana* Grunow var. *biasolettiana* Grunow in Cleve & Grun.)

***Achnanthidium bioretii* (H. Germain) O. Monnier, Lange-Bertalot & Ector in Monnier et al. 2007, p. 155 [CAS ref. 012949]**

Basionym: *Achnanthes bioretii* H. Germain 1957 [CAS ref. 000382]

Nomenclatural synonym: *Psammothidium bioretii* (H. Germain) Bukhtiyarova & Round 1996 [CAS ref. 006789]

Distribution (Fig. 37):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Arouca (District: Aveiro)
Site: Serra da Freita, Arões, Caima River (Vouga Basin)
References: Nunes 2007 (as *Psammothidium bioretii* (Germain) Bukhtiyarova & Round); Ferreira da Silva et al. 2009 (as *Psammothidium bioretii* (Germain) Bukhtiyarova et Round)
Municipality: Oliveira de Azeméis (District: Aveiro)
Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Psammothidium bioretii* (Germain) Bukhtiyarova & Round)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes bioretii* Germain)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Psammothidium bioretii* (Germain) Bukhtiyarova & Round)
Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Psammothidium bioretii* (Germain) Bukhtiyarova & Round)
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Psammothidium bioretii* (Germain) Bukhtiyarova & Round)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Achnanthidium bioreti* (Germain) Edlund)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Achnanthes bioretii* Germain (= *Psammothidium*))
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes bioretii* Germain (= *Psammothidium*))

***Achnanthidium catenatum* (J. Bílý & Marvan) Lange-Bertalot 1999a, p. 277 [CAS ref. 012674]**

Basionym: *Achnanthes catenata* J. Bílý & Marvan 1959 [CAS ref. 000141]

Distribution (Fig. 38):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes catenata* Bily & Marvan)

***Achnanthidium exiguum* (Grunow) Czarnecki 1994**, p. 157 [CAS ref. 008152]

Basionym: *Achnanthes exigua* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 39):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes exigua* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes exigua* Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes exigua* Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes exigua* Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes exigua* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes exigua* Grunow)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes exigua* Grunow)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Achnanthes exigua* Grunow)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Achnanthes exigua*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Achnanthes exigua*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Achnanthes exigua* Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Impacted site after BKME discharge, Vouga River (Vouga Basin)

Reference: Ferreira et al. 2002 (as *Achnanthes exigua*)

Site: Not Specified

Reference: Calado 1990 (as *Achnanthes exigua* Grunow)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes exigua* Grunow)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes exigua* Grunow)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes exigua* Grunow)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthes exigua* (?))

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Achnanthes exigua* Grun.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Achnanthes exigua* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Achnanthes exigua* Grunow); Bourrelly & Manguin 1946a (as *Achnanthes exigua* Grun.); Mölder 1947 (as *Achnanthes exigua* Grun.)

Site: Ribeira Quente

References: Manguin 1942 (as *Achnanthes exigua* Grunow); Bourrelly & Manguin 1946a (as *Achnanthes exigua* Grun.)

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Achnanthidium exiguum* (Grunow) Czarnecki)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthidium exiguum* (Grunow) Czarnecki)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnanthidium exiguum* (Grunow) Czarnecki)

Site: Not Specified

Reference: Gonçalves 2008 (as *Achnanthidium exiguum* (Grunow) Czarnecki)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes exigua* Grunow in Cl. & Grun. var. *exigua*)

***Achnanthidium exiguum* var. *constrictum* (Grunow) N.A. Andresen, Stoermer & R.G. Kreis 2000, p. 413 [CAS ref. 009394]**

Basionym: *Stauroneis exilis* var. *constricta* Grunow 1867 [CAS ref. 000432]

Nomenclatural synonym: *Achnanthes exigua* var. *constricta* (Torka) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 40):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal

Reference: Mölder 1947 (as *Achnanthes exigua* Grun. var. *constricta* Torka)

***Achnanthidium exiguum* var. *heterovalvum* (Krasske) Czarnecki 1994, p. 157 [CAS ref. 008152]**

Basionym: *Achnanthes exigua* var. *heterovalvata* Krasske 1923a [CAS ref. 000579]

Distribution (Fig. 41):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)
- Municipality: Anadia (District: Aveiro)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes exigua* v. *heterovalvata*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes exigua* v. *heterovalvata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes exigua* v. *heterovalvata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes exigua* v. *heterovalvata*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)
- Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Achnanthes exigua heterovalva*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Achnanthes exigua* Grunow v. *heterovalvata* Krasske)

Achnantheidium exile (Kützing) Round & Bukhtiyarova 1996, p. 350 [CAS ref. 006778]

Basionym: *Achnanthes exilis* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 42):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Not Specified

Reference: Colmeiro 1889 (as *Achnanthes exilis* Kg.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes exilis* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes exilis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)

Municipality: Albergaria-a-Velha (District: Aveiro)

- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes exilis* Kützing)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes exilis*)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes exilis*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)
- Municipality: Mealhada (District: Aveiro)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes exilis*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes exilis*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes exilis* Kützing)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990 (as *Achnanthes exilis*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes exilis* Kützing)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes exilis* Kützing)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes exilis* Kützing)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes exilis*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes exilis* Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes exilis* Kützing); Gil et al. 1989-1990
(as *Achnanthes exilis*)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Achnanthes exilis* Kütz.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Achnanthes exilis*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Achnanthes exilis*)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Achnanthes exilis* Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Achnantes exilis* Ktz.)

Site: Ribeira Quente

Reference: Bourrelly & Manguin 1946a (as *Achnanthes exilis* Kütz.)

Site: Pico da Vara

Reference: Manguin 1942 (as *Achnanthes exilis* Kütz.)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Achnanthes exilis* Kütz.); Bourrelly &
Manguin 1946a (as *Achnanthes exilis* Kütz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnanthes exilis* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Achnanthes exilis* Kg.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes exilis* Kutzing)

***Achnantheidium gracillimum* (F. Meister) Lange-Bertalot in Krammer & Lange-Bertalot 2004, p. 430 [CAS ref. 013110]**

Basionym: *Microneis gracillima* Meister 1912 [CAS ref. 000642]

Nomenclatural synonym: *Achnantheidium altergracillima* (Lange-Bertalot) Round & Bukhtiyarova 1996 '*altergracillima*' [CAS ref. 006778]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

References: Gonçalves 2008 (as *Achnantheidium altergracillima* (Lange-Bertalot) Round & Bukhtiyarova); Gonçalves et al. 2010 (as *Achnantheidium gracillimum* (Meister) Lange-Bertalot, fossil)

***Achnantheidium helveticum* (Hustedt) O. Monnier, Lange-Bertalot & Ector in Monnier et al. 2007, p. 155 [CAS ref. 012949]**

Basionym: *Achnanthes austriaca* var. *helvetica* Hustedt 1933 [CAS ref. 000507]

Nomenclatural synonyms: *Achnanthes helvetica* (Hustedt) Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Psammothidium helveticum (Hustedt) Bukhtiyarova & Round 1996 [CAS ref. 006789]

Distribution (Fig. 43):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Psammothidium helveticum* (Hustedt) Bukhtiyarova & Round); Ferreira da Silva et al. 2009 (as *Psammothidium helveticum* (Hustedt) Bukhtiyarova et Round)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Psammothidium helveticum* (Hustedt) Bukhtiyarova & Round)

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Psammothidium helveticum* (Hustedt) Bukhtiyarova & Round)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes helvetica* (Hustedt) Lange-Bertalot)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Psammothidium helveticum* (Hustedt) Bukhtiyarova & Round)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes helvetica* (Hustedt) Lange-Bertalot)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Psammothidium helveticum* (Hustedt) Bukhtiyarova & Round)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Achnanthes helvetica* (Hustedt) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthidium helveticum* (Hustedt) Monnier, Lange-Bertalot & Ector)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Achnanthes helvetica* (Hustedt) Lange-Bertalot, Kusber & Metzeltin)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes helvetica* (Hustedt) Lange-Bertalot, Kusber & Metzeltin)

Achnanthydium lineare W. Smith 1855, p. 8; pl. 1, fig. 9 [CAS ref. 000864]

Nomenclatural synonym: *Achnanthes linearis* (W. Smith) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 44):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: Izeda

Reference: Zimmermann 1910 (as *Achnanthes linearis* (W. Sm.) Grun.)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes linearis* (W. Smith) Grunow)

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Not Specified

Reference: Zimmermann 1910 (as *Achnanthes linearis* (W. Sm.) Grun.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Achnanthes linearis* W. Smith)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Achnanthes linearis* W. Sm.); Santos & Carvalho 2001 (as *Achnanthes linearis* W. Sm.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Achnanthes linearis* (W. Sm.) Grun.);

Bourrelly & Manguin 1946a (as *Achnanthes linearis* (W. Sm.) Grun.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)

Formatada: Portug
(Portugal)

Site: Lagoa das Furnas
References: Chaves 1908 (as *Achnanthidium linearis* Sm.); Mölder 1947
(as *Achnanthes linearis* (W. Sm.) Grun.)
Site: Pico da Vara
Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)
Municipality: Not Specified
Site: Terceira Island
Reference: Johansson 1977 (as *Achnanthes linearis* W. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)
Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) Grun.)

***Achnanthidium macrocephalum* (Hustedt) Round & Bukhtiyarova
1996, p. 349 [CAS ref. 006778]**

Basionym: *Achnanthes minutissima* var. *macrocephala* Hustedt 1937a [CAS ref. 001012]

Distribution (Fig. 45):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River
(Vouga Basin)

Reference: Nunes 2007 (as *Achnanthidium minutissimum* Kützing var.
macrocephala Hustedt)

***Achnanthidium minutissimum* (Kützing) Czarnecki 1994, p. 157
[CAS ref. 008152]**

Basionym: *Achnanthes minutissima* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 46):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Achnanthes minutissima*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Achnanthes minutissima*)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Achnanthes minutissima*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Achnanthes minutissima*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Achnanthes minutissima*)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing);

Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarnecki);

Ferreira da Silva et al. 2009 (as *Achnanthidium minutissimum* (Kütz.)

Czarnecki)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing)

Czarnecki)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Achnanthidium minutissimum*

(Kützing) Czarnecki)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Achnanthes minutissima* Kützing);

Almeida 2001 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as

Achnanthidium minutissimum (Kützing) Czarnecki)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing)

Czarnecki)

Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Subregion: Grande Porto
 Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Achnanthes minutissima*)

Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Gondar Stream (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Achnanthes minutissima*)
 Site: Sains, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Achnanthes minutissima*)
 Site: Tourim, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Achnanthes minutissima*)
 Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: Alhada, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Achnanthes minutissima*)
 Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Achnanthes minutissima*)

REGION: CENTRO

Subregion: Baixo Mondego
 Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)

Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 References: Abrantes et al. 2006 (as *Achnanthes minutissima*); de Figueiredo et al. 2006 (as *Achnanthes minutissima* Kützing)

Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Irrigation channel near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)
 Site: Marsh near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)

Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)

Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*); Almeida 1998 (as *Achnanthes minutissima* Kützing)

- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Achnanthidium minutissimum* (Kütz.) Czarnecki); Ferreira da Silva et al. 2009 (as *Achnanthidium minutissimum* (Kütz.) Czarnecki)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarnecki); Ferreira da Silva et al. 2009 (as *Achnanthidium minutissimum* (Kütz.) Czarnecki)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarnecki)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

- Site: Ribeira de Fráguas, Coval da M6 Mine, Coval da M6 Stream (Vouga Basin)
References: Nunes 2007 (as *Achnanthydium minutissimum* (Kützing) Czarnecki); Ferreira da Silva et al. 2009 (as *Achnanthydium minutissimum* (Kütz.) Czarnecki)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes et al. 2002 (as *Achnanthydium minutissimum* (Kützing) Czarnecki); Nunes et al. 2003 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as *Achnanthydium minutissimum* (Kützing) Czarnecki); Ferreira da Silva et al. 2009 (as *Achnanthydium minutissimum* (Kütz.) Czarnecki)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing); Nunes 2007 (as *Achnanthydium minutissimum* (Kützing) Czarnecki); Nunes 2007 *Achnanthydium minutissimum* (Kützing) Czarnecki, teratological form); Ferreira da Silva et al. 2009 (as *Achnanthydium minutissimum* (Kütz.) Czarnecki)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Achnanthes minutissima*); Almeida 1998 (as *Achnanthes minutissima* Kützing)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)

Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Achnanthes minutissima* Kützing)

Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)

Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes minutissima* Kützing)

Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Achnanthes minutissima*); Almeida 1998 (as *Achnanthes minutissima* Kützing)

Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes minutissima*)

Site: Vila Verde, Levira River (Vouga Basin)
 References: Almeida 1998 (as *Achnanthes minutissima* Kützing); Almeida 2001 (as *Achnanthes minutissima* Kützing)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing);
Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarnecki)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarnecki)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing);
Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarnecki)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing);
Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarnecki)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Achnanthes minutissima* Kützing)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes minutissima* Kützing)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes minutissima* Kützing); Gil et al. 1989-1990 (as *Achnanthes minutissima*)

Subregion: Médio Tejo

- Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Achnanthes minutissima*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Achnanthes minutissima*); Ferreira 1986 (as *Achnanthes minutissima*); Brito & Andrade 1992 (as *Achnanthes minutissima*)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)
- Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Achnanthes minutissima*)
- Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Achnanthes minutissima*)
- Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Achnanthes minutissima*)
- Subregion: Pinhal Interior Sul
- Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Achnanthes minutissima*)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)
- Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)
- Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Achnanthes minutissima* Kützing)
- Subregion: Not Specified
- Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1994 (as *Achnanthes minutissima*); Cerqueira da Silva et al. 1993 (as *Achnanthes minutissima*)
- Site: Not Specified
 References: Calado 1990 (as *Achnanthes minutissima* Kützing); Gil et al. 1991 (as *Achnanthes minutissima*); Feio et al. 2007 (as *Achnanthidium minutissimum*)
- REGION: ALENTEJO
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Achnanthes minutissima* Kützing)

- Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1987 (as *Achnanthes minutissima* Kz.)
- Municipality: Santiago do Cacém (District: Setúbal)
 Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Achnanthes minutissima*)
- Municipality: Not Specified
 Site: Sado River (Sado Basin)
 Reference: Monteiro et al. 1995 (as *Achnanthes minutissima*)
- Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Achnanthes minutissima*)
- Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Achnanthidium minutissimum* (Kützing) Czarniecki)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Achnanthidium minutissimum* (Kützing) Czarniecki)
- Municipality: Mértola (District: Beja)
 Site: Acid mine drainage of the São Domingos mine
 Reference: Gerhardt et al. 2008 (as *Achnanthes minutissima* Kützing var. *min.*)
 Site: Reservoir in the abandoned São Domingos mine
 Reference: Gerhardt et al. 2008 (as *Achnanthes minutissima* Kützing var. *min.*)
- Subregion: Lezíria do Tejo
 Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Achnanthes minutissima* Kütz., fossil)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)
 Reference: Gerhardt et al. 2008 (as *Achnanthes minutissima* Kützing var. *min.*)
- REGION: LISBOA
 Subregion: Península de Setúbal
 Municipality: Sesimbra (District: Setúbal)
 Site: Alfarim diatomite
 Reference: Ferreira & Castelo 1957 (as *Achnanthes minutissima* Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz.)

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

References: Holmboe 1901 (as *Achnanthes minutissima* Kütz.); Mölder 1947 (as *Achnanthes minutissima* Kütz.)

Site: Lagoa das Furnas

References: Holmboe 1901 (as *Achnanthes minutissima* Kütz.); Chaves 1908 (as *Achnantes minutissima* Ehr.); Manguin 1942 (as *Achnanthes minutissima* Kütz.); Bourrelly & Manguin 1946a (as *Achnanthes minutissima* Kütz.); Mölder 1947 (as *Achnanthes minutissima* Kütz.)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz.)

Site: Lagoa Pequena

Reference: Holmboe 1901 (as *Achnanthes minutissima* Kütz.)

Site: Pico da Vara

References: Manguin 1942 (as *Achnanthes minutissima* Kütz.); Bourrelly & Manguin 1946a (as *Achnanthes minutissima* Kütz.); Mölder 1947 (as *Achnanthes minutissima* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

References: Holmboe 1901 (as *Achnanthes minutissima* Kütz.); Mölder

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Achnanthes minutissima*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Achnanthes minutissima*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Achnanthes minutissima*)
1947 (as *Achnanthes minutissima* Kütz.)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Achnanthidium minutissimum* (Kützing) Czarnecki)

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Achnanthidium minutissimum* (Kützing) Czarnecki)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
Site: São Jorge Island
References: Johansson 1977 (as *Achnanthes minutissima* Kütz.);
Gonçalves et al. 2010 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
Site: São Miguel Island (upstream sites)
Reference: Gonçalves et al. 2008 (as *Achnanthydium minutissimum*)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)
Site: Not Specified
Reference: Gonçalves 2008 (as *Achnanthydium minutissimum* (Kützing) Czarnecki)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Achnanthes minutissima* Kütz.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Achnanthes minutissima* Kützing v. *minutissima* Kützing (*Achnanthydium*))

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Achnanthes minutissima* Kützing v. *minutissima* Kützing (= *Achnanthydium*))

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Achnanthes minutissima* Kützing v. *minutissima* Kützing (*Achnanthydium*))

Site: Rivers in the North

Reference: Morais et al. 2009 (as *Achnanthes minutissima* Kützing v. *minutissima* Kützing (= *Achnanthydium*))

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Achnanthes minutissima* Kützing v. *minutissima* Kützing (*Achnanthidium*))
Site: Tagus and Sado Sedimentary Deposits
Reference: Morais et al. 2009 (as *Achnanthes minutissima* Kützing v. *minutissima* Kützing (*Achnanthidium*))
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Achnanthes minutissima*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes minutissima* Kützing v. *minutissima* Kützing (= *Achnanthidium*))

***Achnanthidium minutissimum* var. *affinis* (Grunow) Bukhtiyarova 1995, p. 420 [CAS ref. 008000]**

Basionym: *Achnanthes affinis* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 47):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarniecki var. *affinis* (Grunow) Bukhtiyarova)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Achnanthes affinis*)

Subregion: Minho-Lima

Municipality: Not Specified

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Achnanthes affinis*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes minutissima* var. *affinis* (Grunow) Lange-Bertalot)

Subregion: Baixo Vouga

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Achnanthes affinis* Grunow)

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes affinis* Grunow)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Frágoas, Bosturenga, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarniecki var. *affinis* (Grunow) Bukhtiyarova)
- Site: Valmaior, River Filvida (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarniecki var. *affinis* (Grunow) Bukhtiyarova)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga, upstream of the mouth of Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarniecki var. *affinis* (Grunow) Bukhtiyarova)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthidium minutissimum* (Kützing) Czarniecki var. *affinis* (Grunow) Bukhtiyarova)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
- Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes affinis* Grunow)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes affinis*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes affinis*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Achnanthes affinis*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Achnanthes minutissima* var. *affinis* (Grunow) Lange-Bertalot)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Achnanthes affinis*); Cerqueira da Silva et al. 1993 (as *Achnanthes affinis*)
Site: Not Specified
Reference: Calado 1990 (as *Achnanthes affinis* Grunow)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Achnanthes affinis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Achnanthes affinis* Grunow); Bourrelly & Manguin 1946a (as *Achnanthes affinis* Grunow)
Municipality: Not Specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Achnanthes affinis* Grunow)

***Achnantheidium minutissimum* f. *inconspicuum* (Østrup) Compère & Riaux-Gobin 2009**, p. 40 [CAS ref. 013363]

Basionym: *Achnanthes minutissima* var. *inconspicua* Østrup 1910 [CAS ref. 000706]

Distribution (Fig. 48):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnantheidium minutissimum* Kützing var. *inconspicua* Oestrup)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnantheidium minutissimum* Kützing var. *inconspicua* Oestrup)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnantheidium minutissimum* Kützing var. *inconspicua* Oestrup)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

References: Nunes et al. 2002 (as *Achnanthes* (*Achnantheidium*) *minutissima* Kützing var. *inconspicua* Oestrup); Nunes 2007 (as *Achnantheidium minutissimum* Kützing var. *inconspicua* Oestrup); Ferreira da Silva et al. 2009 (as *Achnantheidium minutissimum* var. *inconspicua* Oestrup)

***Achnantheidium rosenstockii* (Lange-Bertalot) Lange-Bertalot in Krammer & Lange-Bertalot 2004**, p. 433 [CAS ref. 013110]

Basionym: *Achnanthes rosenstockii* Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 49):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Psammothidium rosenstockii* (Lange-Bertalot) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Psammothidium rosenstockii* (Lange-Bertalot) Lange-Bertalot)

***Achnanthydium saprophilum* (H. Kobayasi & Mayama) Round & Bukhtiyarova 1996, p. 349 [CAS ref. 006778]**

Basionym: *Achnanthes minutissima* var. *saprophila* H. Kobayasi & Mayama 1982 [CAS ref. 008434]

Distribution (Fig. 50):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthydium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthydium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

References: Nunes 2007 (as *Achnanthydium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Achnanthydium saprophilum* (Kobayasi et Mayama) Round & Bukhtiyarova)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthydium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthydium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing var. *saprophila* Kobayasi et Mayama); Nunes 2007 (as *Achnanthydium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthydium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing var. *saprophila* Kobayasi et Mayama); Nunes 2007 (as *Achnantheidium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Achnantheidium saprophilum* (Kobayasi et Mayama) Round & Bukhtiyarova)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnantheidium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

Municipality: Sever do Vouga (District: Aveiro)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)

Reference: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing var. *saprophila* Kobayasi et Mayama)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnantheidium saprophila* (Kobayasi & Mayama) Round & Bukhtiyarova)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes et al. 2003 (as *Achnanthes minutissima* Kützing var. *saprophila* Kobayasi et Mayama)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Achnantheidium saprophilum* (H. Kobayasi & S. Mayama) F.E. Round & L. Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnantheidium saprophilum* (H. Kobayasi & S. Mayama) F.E. Round & L. Bukhtiyarova)

Site: Not Specified

Reference: Gonçalves 2008 (as *Achnantheidium saprophila* (Kobayasi et Mayama) Round & Bukhtiyarova)

***Achnantheidium subatomoides* (Hustedt) Monnier, Lange-Bertalot & Ector in Monnier et al. 2007, p. 155 [CAS ref. 012949]**

Basionym: *Navicula subatomoides* Hustedt in Schmidt 1936 [CAS ref. 012519]

Nomenclatural synonyms: *Achnanthes subatomoides* (Hustedt in Schmidt 1936) Lange-Bertalot & R.E.M. Archibald in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]

Psammothidium subatomoides (Hustedt) Bukhtiyarova & Round 1996 [CAS ref. 006778]

Distribution (Fig. 51):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Achnanthes subatomoides*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Achnanthes subatomoides*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Achnanthes subatomoides*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Achnanthes subatomoides*)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes subatomoides* (Hustedt)

Lange-Bertalot et Archibald); Nunes 2007 (as *Psammothidium*

subatomoides (Hustedt) Bukhtiyarova & Round); Ferreira da Silva et al.

2009 (as *Psammothidium subatomoides* (Hustedt) Bukht. et Round)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt)

Bukhtiyarova & Round)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Achnanthes subatomoides* (Hustedt)

Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. &

Arch.); Almeida 2001 (as *Achnanthes subatomoides* (Hust.) L.-B. &

Arch.); Nunes 2007 (as *Psammothidium subatomoides* (Hustedt)

Bukhtiyarova & Round)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt)

Bukhtiyarova & Round)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. &

Arch.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes subatomoides* (Hustedt) Lange-Bertalot)

Municipality: Montemor-o-Velho (District: Coimbra)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Achnanthes subatomoides* (Hustedt) Lange-Bertalot)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*); Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round); Ferreira da Silva et al. 2009 (as *Psammothidium subatomoides* (Hustedt) Bukht. et Round)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Achnanthes subatomoides* (Hustedt) Lange-Bertalot et Archibald); Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 References: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round); Ferreira da Silva et al. 2009 (as *Psammothidium subatomoides* (Hustedt) Bukht. et Round)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
- Site: Silva Escura (upstream of Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Psammothidium subatomoides* (Hustedt) Bukhtiyarova & Round)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)
- Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)
- Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot); Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes subatomoides* (Hustedt) Lange-Bertalot)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes subatomoides*)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes subatomoides* (Hust.) Lange-Bertalot)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Achnanthes subatomoides* (Hustedt) Lange-Bertalot)

Subregion: Not Specified

Municipality: Not Specified

Site: Águeda, Agadão and Alfusqueiro Rivers
Reference: Gil 1989 (as *Achnanthes subatomoides* (Hustedt) Lange-Bertalot)

Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Achnanthes subatomoides*)

Site: Not Specified
References: Gil et al. 1991 (as *Achnanthes subatomoides*); Feio et al. 2007 (as *Achnanthes subatomoides*)

Site: Not Specified
References: Calado 1990 (as *Achnanthes subatomoides* (Hustedt) Lange-Bertalot); Almeida & Gil 2001 (as *Achnanthes subatomoides* (Hust.) L.-B. & Arch.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Achnanthidium subatomoides* (Hustedt) Monnier, Lange-Bertalot & Ector)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Achnanthidium subatomoides* (Hustedt) Monnier, Lange-Bertalot & Ector)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Achnanthidium subatomoides* (Hustedt) Monnier, Lange-Bertalot & Ector)

Site: Not Specified
Reference: Gonçalves 2008 (as *Psammothidium subatomoides* (Hustedt)
Bukhtiyarova & Round)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Achnanthes subatomoides* (Hustedt)
Lange-Bertalot & Archibald)
Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Achnanthes subatomoides* (Hustedt)
Lange-Bertalot et Archibald)
Site: Rivers in the North
Reference: Morais et al. 2009 (as *Achnanthes subatomoides* (Hustedt)
Lange-Bertalot et Archibald)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes subatomoides* (Hustedt)
Lange-Bertalot et Archibald)

***Achnanthidium subatomus* (Hustedt) Lange-Bertalot 1999a**, p. 279
[CAS ref. 012674]

Basionym: *Achnanthes subatomus* Hustedt 1939 [CAS ref. 000514]

Nomenclatural synonym: *Achnanthes biasoletiana* var. *subatomus* Lange-Bertalot
in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 52):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes biasoletiana* Grunow var.
subatomus Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes biasoletiana* Grunow var.
subatomus Lange-Bertalot)

***Achnanthidium subhudsonis* (Hustedt) H. Kobayasi in Kobayasi et al. 2006, p. 13, 129 [CAS ref. 012998]**

Basionym: *Achnanthes subhudsonis* Hustedt 1921 [CAS ref. 000495]

Distribution (Fig. 53):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt); Ferreira da Silva et al. 2009 (as *Achnanthes subhudsonis* Hustedt)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes subhudsonis* Hustedt); Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes subhudsonis* Hustedt); Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes subhudsonis* Hustedt); Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

References: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt); Ferreira da Silva et al. 2009 (as *Achnanthes subhudsonis* Hustedt)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes subhudsonis* Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Feio et al. 2007 (as *Achnanthes subhudsonis*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus River (Tagus Basin)

Reference: Sabater et al. 2009 (as *Achnanthes subhudsonis*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes subhudsonis* Hustedt)

***Achnantheidium thermale* Rabenhorst 1864**, p. 107 [CAS ref. 000775]

Distribution (Fig. 54):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Achnantheidium thermale* Rabenhorst)

Actinocyclus Ehrenberg 1837a, p. 61
[CAS ref. 006909]

***Actinocyclus normanii* (W. Gregory ex Greville) Hustedt 1957**, p. 218; pl. 1, fig. 5-6 10 [CAS ref. 000532]

Basionym: *Coscinodiscus normanii* ('normanni') W. Gregory ex Greville 1859
[CAS ref. 000405]

Distribution (Fig. 55):

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Actinocyclus normanii*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Actinocyclus normanii* (Greg. Ex Grev.)

Hustedt morphotype *normanii*)

***Actinocyclus subtilis* (W. Gregory) Ralfs in Pritchard 1861, p. 835**
[CAS ref. 001063]

Basionym: *Eupodiscus subtilis* W. Gregory 1857a [CAS ref. 000399]

Distribution (Fig. 56):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Actinocyclus subtilis* (Gregory) Lange-Bertalot)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Actinocyclus subtilis* (Gregory) Lange-Bertalot)

***Actinoptychus* Ehrenberg 1843a, p. 400**
[CAS ref. 000294]

***Actinoptychus undulatus* (Kützing) Ralfs in Pritchard 1861**, p. 839;
pl. 5, fig. 88 [CAS ref. 001063]

Basionym: *Actinocyclus undulatus* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 57):

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Vouga River (Impacted site after BKME discharge) (Vouga Basin)

Reference: Ferreira et al. 2002 (as *Actinoptychus undulatus*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Actinoptychus undulatus*
Eh.)

***Actinoptychus* sp.**

Distribution (Fig. 58):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Actinoptychus* sp.)

***Adlafia* Gerd Moser, Lange-Bertalot & Metzeltin 1998**,
p. 87 [CAS ref. 007020]

***Adlafia bryophila* (J.B. Petersen) Gerd Moser, Lange-Bertalot &
Metzeltin 1998**, p. 89 [CAS ref. 007020]

Basionym: *Navicula bryophila* J.B. Petersen 1928a [CAS ref. 000742]

Distribution (Fig. 59):

REGION: CENTRO

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula bryophila* Petersen)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Navicula bryophila* B. Petersen)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Adlafia bryophila* (Petersen) Moser, Lange-Bertalot & Metzeltin)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Adlafia bryophila* (Petersen) Moser, Lange-Bertalot & Metzeltin)
Site: Not Specified
Reference: Gonçalves 2008 (as *Adlafia bryophila* (Petersen) Moser, Lange-Bertalot & Metzeltin)

***Adlafia minuscula* (Grunow) Lange-Bertalot in Lange-Bertalot & Genkal 1999, p. 32 [CAS ref. 009014]**

Basionym: *Navicula minuscula* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 60):

REGION: NORTE

Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow in Van Heurck 1880)
Municipality: Albergaria-a-Velha (District: Aveiro)

- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow in Van Heurck 1880)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow in Van Heurck 1880)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow in Van Heurck 1880)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow in Van Heurck 1880)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow)
- Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 1998 (as *Navicula minuscula* Grunow); Almeida 2001 (as *Navicula minuscula* Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow in Van Heurck 1880)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow in Van Heurck 1880)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula minuscula*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula minuscula*)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Navicula minuscula* Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Adlafia minuscula* (Grunow) Lange-Bertalot)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Adlafia minuscula* (Grunow) Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Adlafia minuscula* (Grunow) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Adlafia minuscula* (Grunow) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Adlafia minuscula* (Grunow) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula minuscula* Grunow in Van Heurck 1880)

***Adlafia minuscula* var. *muralis* (Grunow) Lange-Bertalot in Lange-Bertalot & Genkal 1999, p. 32 [CAS ref. 009014]**

Basionym: *Navicula muralis* Grunow in Van Heurck 1880 [CAS ref. 000895]

Nomenclatural synonyms: *Navicula minuscula* var. *muralis* (Grunow) Lange-Bertalot in Lange-Bertalot & Rumrich 1981 [CAS ref. 008474]

Distribution (Fig. 61):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow var. *muralis*
(Grunow) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow var. *muralis*
(Grunow) Lange-Bertalot)

Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula muralis* Grunow)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow var. *muralis*
(Grunow) Lange-Bertalot)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow var. *muralis*
(Grunow) Lange-Bertalot)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula minuscula* Grunow var. *muralis*
(Grunow) Lange-Bertalot)

Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, upstream of the Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula minuscula* Grunow var. *muralis*
(Grunow) Lange-Bertalot)

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Navicula minuscula* Grunow var.
muralis (Grunow) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Navicula muralis* Grun.)

Municipality: Corvo (Corvo Island)
Site: Not Specified
Reference: Mölder 1947 (as *Navicula muralis* Grun.)

Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Navicula muralis* Grun.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula minuscula* var. *muralis*)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Adlafia muralis* (Grunow) Monnier & Ector)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Adlafia muralis* (Grunow) Monnier & Ector)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Adlafia muralis* (Grunow) Monnier & Ector)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Adlafia muralis* (Grunow) Monnier & Ector)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Adlafia muralis* (Grunow) Monnier & Ector)
Site: Not Specified
Reference: Gonçalves 2008 (as *Adlafia minuscula* var. *muralis* (Grunow) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Navicula muralis* Grun.)

***Amphipleura* Kützing 1844, p. 103**

[CAS ref. 000595]

***Amphipleura kriegeriana* (Krasske) Hustedt 1954a, p. 272; fig. 25-27** [CAS ref. 000528]

Basionym: *Fragilaria kriegeriana* Krasske 1943 [CAS ref. 000589]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

References: Gonçalves 2008 (as *Amphipleura kriegeriana* (Krasske) Hustedt); Gonçalves et al. 2010 (as *Amphipleura kriegeriana* (Krasske) Hustedt, fossil)

Amphipleura lindheimeri Grunow 1862, p. 155 (469); pl. 11, fig. 11
[CAS ref. 000428]

Distribution (Fig. 62):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphipleura lindheimeri* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Amphipleura lindheimeri* Grunow); Gil et al. 1989-1990 (as *Amphipleura lindheimeri*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphipleura lindheimeri* Grunow); Gil et al. 1989-1990 (as *Amphipleura lindheimeri*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Amphipleura lindheimeri* Grunow); Gil et al. 1989-1990 (as *Amphipleura lindheimeri*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphipleura lindheimeri* Grunow); Gil et al. 1989-1990 (as *Amphipleura lindheimeri*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Amphipleura lindheimeri* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Amphipleura lindheimeri*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Amphipleura lindheimeri* Grunow)

***Amphipleura pellucida* (Kützing) Kützing 1844**, p. 103; pl. 3, fig. 52, pl. 30, fig. 84 [CAS ref. 000595]

Basionym: *Frustulia pellucida* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 63):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Amphipleura pellucida* (Kützing) Kützing)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Amphipleura pellucida* (Kützing) Kützing)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Amphipleura pellucida* (Kützing) Kützing)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Amphipleura pellucida* Kütz.); Gil et al. 1989-1990 (as *Amphipleura pellucida*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Amphipleura pellucida* Kütz.)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Amphipleura pellucida* Kütz.); Gil et al. 1989-1990 (as *Amphipleura pellucida*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Amphipleura pellucida* Kütz.)
 Municipality: Anadia (District: Aveiro)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphipleura pellucida*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphipleura pellucida*)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphipleura pellucida* (Kützing) Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphipleura pellucida* (Kützing) Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Amphipleura pellucida* Kütz.)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Amphipleura pellucida* (Kützing) Kützing)
 Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphipleura pellucida*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphipleura pellucida*)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphipleura pellucida* (Kützing) Kützing)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Amphipleura pellucida*); Almeida 1998 (as *Amphipleura pellucida* (Kützing) Kützing)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphipleura pellucida*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Amphipleura pellucida* Kützing)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1909b (as *Amphipleura pellucida* (Ehr.) Kütz.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Amphipleura pellucida* Kütz.)

Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Amphipleura pellucida* Kütz.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Amphipleura pellucida* Kütz.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Amphipleura pellucida* Kütz.); Almeida & Gil 2001 (as *Amphipleura pellucida* (Kützing) Kützing)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Amphipleura pellucida*)

***Amphora Ehrenberg ex Kützing 1844*, p. 107
[CAS ref. 000595]**

***Amphora birugula* M.H. Hohn 1961**, p. 155; pl. 1, fig. 17, 18 [CAS ref. 000485]

Distribution (Fig. 64):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Amphora birugula*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Amphora birugula*)

Formatada: Portugal
(Portugal)

***Amphora coffeaeformis* var. *acutiuscula* (Kützing) Hustedt 1930**, p. 346 [CAS ref. 000502]

Basionym: *Amphora acutiuscula* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 65):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Amphora acutiuscula* Kuetz.)

***Amphora copulata* (Kützing) Schoeman & R.E.M. Archibald 1986**,
p. 429; fig. 11-13, 30-34 [CAS ref. 005425]

Basionym: *Frustulia copulata* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 66):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Amphora copulata* (Kützing) Schoeman & Archibald)

***Amphora delicatissima* Krasske in Hustedt 1930**, p. 346; fig. 635
[CAS ref. 000502]

Distribution (Fig. 67):

REGION: NORTE
Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Prelada
Reference: Silva 1950b (as *Amphora delicatissima* Krasske)

***Amphora dubia* W. Gregory 1857a**, p. 514; pl. 13, fig. 76 [CAS ref. 000399]

Distribution (Fig. 68):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Amphora dubia* Greg., fossil)

Amphora exigua Gregory 1857a, p. 514; pl. 12, fig. 75 [CAS ref. 000399]

Distribution (Fig. 69):

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Amphora exigua*)

Amphora fagediana Krammer in Krammer & Lange-Bertalot 1985, p. 9; pl. 10, fig. 1-3 [CAS ref. 006263]

Distribution (Fig. 70):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Amphora fagediana* Krammer)

Amphora inariensis Krammer 1980a, p. 211; pl. 4, fig. 21-24, pl. 6, fig. 36, 37, 43-45 [CAS ref. 008971]

Distribution (Fig. 71):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Amphora inariensis* Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Amphora inariensis* Krammer)

Amphora libyca Ehrenberg 1840a, p. 205 [CAS ref. 000293]

Distribution (Fig. 72):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Amphora libyca* Ehrenberg)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Amphora libyca* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Amphora libyca* Ehrenberg)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Amphora libyca* Ehrenberg)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Amphora libyca* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Amphora libyca* Ehrenberg)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Amphora libyca* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Amphora libyca* Ehrenberg)

Site: Not Specified

Reference: Gonçalves 2008 (as *Amphora libyca* Ehrenberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Amphora libyca* Ehr.)

***Amphora lineolata* Ehrenberg 1838, p. 189 [CAS ref. 000288]**

Distribution (Fig. 73):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas
Reference: Mölder 1947 (as *Amphora lineolata* Ehr.)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Amphora lineolata* Ehr.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Amphora lineolata* Ehrenberg)

***Amphora ovalis* (Kützing) Kützing 1844**, p. 107; pl. 5, fig. 35, 39
[CAS ref. 000595]

Basionym: *Frustulia ovalis* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 74):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Amphora ovalis*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Amphora ovalis*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Amphora ovalis*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Amphora ovalis*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Amphora ovalis*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Amphora ovalis*)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Amphora ovalis*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Amphora ovalis*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Amphora ovalis* (Kützing)
Kützing)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Amphora ovalis*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Amphora ovalis* (Kützing) Kützing)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Amphora ovalis* (Kützing) Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990
(as *Amphora ovalis*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990
(as *Amphora ovalis*); Almeida 1998 (as *Amphora ovalis* (Kützing)
Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphora ovalis* Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphora ovalis* Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990
(as *Amphora ovalis*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora ovalis*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990
(as *Amphora ovalis*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphora ovalis*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphora ovalis*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphora ovalis*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphora ovalis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Amphora ovalis*)
 Site: Viadouros, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Amphora ovalis*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Amphora ovalis*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Amphora ovalis*); Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Amphora ovalis*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora ovalis* (Kützing) Kützing)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Amphora ovalis* Kützing)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Amphora ovalis* (Bréb.) Kuetz.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Amphora ovalis* Kützing)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Amphora ovalis* Kützing)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Amphora ovalis* (Kützing) Kützing)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Amphora ovalis* Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Amphora ovalis* Kützing); Gil et al. 1989-1990 (as *Amphora ovalis*)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Amphora ovalis*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Amphora ovalis*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Brito & Andrade 1992 (as *Amphora ovalis*)
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 References: Zimmermann 1906 (as *Amphora ovalis* (Bréb.) Kuetz.);
 Oliveira & Caldas 1970 (as *Amphora ovalis* Kütz.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Amphora ovalis* Kütz.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Amphora ovalis* Kütz.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Amphora ovalis* Kütz.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Amphora ovalis* Kütz.)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Amphora ovalis*)
 Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Amphora ovalis*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Amphora ovalis*)
 Site: Not Specified
 References: Calado 1990 (as *Amphora ovalis* Kützing); Gil et al. 1991 (as
Amphora ovalis)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Amphora ovalis*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Amphora ovalis* Kütz.); Fernandes et al. 1987
 (as *Amphora ovalis*)

Municipality: Marvão (District: Portalegre)

- Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Amphora ovalis*)
- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Amphora ovalis*)
- Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Amphora ovalis*)
- Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Amphora ovalis* Kütz.)
- Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Amphora ovalis*)
- Municipality: Ourique (District: Beja)
Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
Reference: Oliveira 1984a (as *Amphora ovalis*)
- Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Amphora ovalis*)
- Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Amphora ovalis*)
- Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Amphora ovalis*)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Amphora ovalis*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Angra do Heroísmo (Terceira Island)
Site: Not Specified
Reference: Trelease 1897 (as *Amphora ovalis* Kütz.)
- Municipality: Povoação
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Amphora ovalis* Ktz.)
- Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Amphora ovalis* (Bréb.) Kütz.)
- Site: Lagoa das Furnas
References: Holmboe 1901 (as *Amphora ovalis* (Bréb.) Kütz.); Chaves 1908 (as *Amphora ovalis* Ktz.); Manguin 1942 (as *Amphora ovalis* Kütz.); Bourrelly & Manguin 1946a (as *Amphora ovalis* Kütz.)
- Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Amphora ovalis* Ktz., fossil)

Site: Tambores, Furnas
Reference: Chaves 1908 (as *Amphora ovalis* Ktz., fossil)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Amphora ovalis* Kütz.); Bourrelly & Manguin 1946a (as *Amphora ovalis* Kütz.)
Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro
References: Manguin 1942 (as *Amphora ovalis* Kütz.); Bourrelly & Manguin 1946a (as *Amphora ovalis* Kütz.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Amphora ovalis* (Kützing) Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Amphora ovalis* (Kützing) Kützing)
Site: Terceira Island
References: Holmboe 1901 (as *Amphora ovalis* (Bréb.) Kütz.); Gonçalves et al. 2010 (as *Amphora ovalis* (Kützing) Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Schodduyn 1927 (as *Amphora ovalis* Kg.)
Site: Tanque nos Estanquinhos
Reference: Zimmermann 1910-1911 (as *Amphora ovalis* (Bréb.) Kuetz.)
Municipality: Porto Santo (Porto Santo Island)
Site: Porto Santo
Reference: Zimmermann 1910-1911 (as *Amphora ovalis* (Bréb.) Kuetz.)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Amphora ovalis* (Bréb.) Kuetz.)

Formatada: Portugal (Portugal)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Amphora ovalis* (Kützing) Kützing)

***Amphora ovalis* var. *affinis* (Kützing) Pero 1893**, p. 271 [CAS ref. 002339]

Basionym: *Amphora affinis* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 75):

REGION: CENTRO

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Amphora ovalis* (Bréb.) Kuetz. var. *affinis* Kuetz.)
Site: Gonçalo
Reference: Carvalho 1913 (as *Amphora ovalis* (Bréb.) Kuetz. var. *affinis* Kuetz.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Amphora ovalis* (Bréb.) Kuetz. var. *affinis* Kuetz.)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1909b (as *Amphora ovalis* (Bréb.) Kuetz. var. *affinis* (Kuetz.) Van Heurck)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Amphora affinis* Ktz.)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Porto Santo
Reference: Zimmermann 1910-1911 (as *Amphora ovalis* (Bréb.) Kuetz. var. *affinis* (Kuetz.) V.H.)

***Amphora ovalis* f. *minor* (Grunow in Van Heurck) Van Heurck 1885**, p. 59; (pl. 1, fig. 4-5) [CAS ref. 001040]
as *Amphora ovalis* ‘gamma’ *affinis* Kütz. forma *minor*

Basionym: *Amphora affinis* f. *minor* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 76):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda
Site: Gonçalo
Reference: Carvalho 1913 (as *Amphora ovalis* (Bréb.) Kuetz. var. *affinis* Kuetz. forma *minor*)

***Amphora ovalis* var. *gracilis* (Ehrenberg) Van Heurck 1885**, p. 59
as *Amphora ovalis* 'beta' *gracilis* [CAS ref. 000895]

Basionym: *Amphora gracilis* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 77):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Porto Santo (Porto Santo Island)
Site: Ponte do Espírito Santo
Reference: Zimmermann 1910-1911 (as *Amphora ovalis* (Bréb.) Kuetz.
var. *gracilis* (Ehr.) V.H.)

***Amphora ovalis* var. *minor* Rabenhorst 1864**, p. 92 [CAS ref. 000775]

Distribution (Fig. 78):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Not Specified
Reference: Zimmermann 1910 (as *Amphora ovalis* (Bréb.) Kuetz. var.
minor Grun.)

***Amphora pediculus* (Kützing) Grunow in Schmidt 1875a**, pl. 26,
fig. 99 [CAS ref. 012447]

Basionym: *Cymbella pediculus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Amphora ovalis* var. *pediculus* (Kützing) Van Heurck
1885 [CAS ref. 001040]

Synonym: *Amphora perpusilla* Grunow 1884 [CAS ref. 000444], according to
Krammer & Lange-Bertalot 1986, p. 346

Distribution (Fig. 79):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Amphora pediculus* (Kützing) Grunow)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Amphora pediculus* (Kützing) Grunow)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Amphora pediculus* (Kützing) Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphora pediculus* Kützing); Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)

Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Amphora pediculus*); Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Amphora pediculus* Kützing)
 Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Amphora pediculus* Kützing); Gil et al. 1989-1990 (as *Amphora pediculus*)
 Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)
 Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)
 Site: Perrães, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Amphora pediculus*); Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)
 Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora pediculus*)
 Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora pediculus* (Kützing) Grunow)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Amphora pediculus* Kützing)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)
 Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphora pediculus* Kützing); Gil et al. 1989-1990 (as *Amphora pediculus*)
 Municipality: Tondela (District: Viseu)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Amphora pediculus* (Kützing) Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Amphora pediculus* Kützing)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Amphora pediculus*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Amphora pediculus*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Amphora pediculus* (Kützing) Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Vouga Basin

Reference: Almeida & Gil 2000 (as *Amphora pediculus* (Kützing) Grunow)

Site: Not Specified

References: Calado 1990 (as *Amphora pediculus* Kützing); Almeida & Gil 2001 (as *Amphora pediculus* (Kützing) Grunow)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Amphora pediculus* (Kützing) Grunow)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Amphora pediculus* (Kützing) Grunow)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Amphora pediculus* (Kützing) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Amphora ovalis* (Bréb.) Kütz. var. *pediculus* (Kütz.) V.H.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Amphora pediculus* Grun.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Amphora pediculus* Grun., fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Amphora pediculus* Grun., fossil)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Amphora ovalis* Kütz. var. *pediculus* Kütz.); Bourrelly & Manguin 1946a (as *Amphora ovalis* Kütz. var. *pediculus* Kütz.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Amphora pediculus* (Kützing) Grunow)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Amphora pediculus* (Kützing) Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Amphora pediculus* (Kützing) Grunow)

Site: São Miguel Island (upstream sites)

Reference: Gonçalves et al. 2008 (as *Amphora pediculus*)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Amphora pediculus* (Kützing) Grunow)

Site: Not Specified

Reference: Gonçalves 2008 (as *Amphora pediculus* (Kützing) Grunow)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Amphora ovalis* Kütz. var. *pediculus* Kütz.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Amphora pediculus* (Kützing) Grunow)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Amphora pediculus* (Kützing) Grunow)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Amphora pediculus* (Kützing) Grunow)

***Amphora perpusilla* Grunow 1884**, p. 50 (102); pl. 1 (A), fig. 6 [CAS ref. 000444]

Synonym: *Amphora pediculus* (Kützing) Grunow in Schmidt 1875a [CAS ref. 012447], according to Krammer & Lange-Bertalot 1986, p. 346

Distribution (Fig. 80):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Amphora perpusilla* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Amphora perpusilla* Grun.)

***Amphora* sp.**

Distribution (Fig. 81):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Bragança (District: Bragança)
Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)
Reference: Geraldès & Boavida 2005 (as *Amphora* sp.)

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Amphora* sp.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Amphora* sp.)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Amphora* sp.)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Amphora* spp.)

REGION: ALENTEJO
Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Amphora* sp.); Oliveira 1996
(as *Amphora* sp.)
Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Amphora* sp.)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Amphora* sp.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Amphora* sp.)
Subregion: Lezíria do Tejo
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Amphora* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Amphora* sp.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Amphora* species)

***Anaulus Ehrenberg 1844*, p. 197
[CAS ref. 001184]**

***Anaulus balticus Simonsen 1959*, p. 74; pl. 10, fig. 1-3 [CAS ref. 000823]**

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Anaulus balticus Simonsen*)

***Aneumastus D.G. Mann & Stickle in Round, Crawford
& Mann 1990*, p. 663 [CAS ref. 003245]**

***Aneumastus laetus (Ant. Mayer) Lange-Bertalot in Lange-Bertalot
& Metzeltin 1996*, p. 29; pl. 110, fig. 1 [CAS ref. 007048]**

Basionym: *Navicula laeta* Ant. Mayer 1919 [CAS ref. 000637]

Distribution (Fig. 82):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Navicula laeta* A. Mayer, fossil)

***Aneumastus tuscula* (Ehrenberg) D.G. Mann & Stickle in Round, Crawford & Mann 1990, p. 663 ‘*tusculus*’ [CAS ref. 003245]**

Basionym: *Navicula tuscula* Ehrenberg 1840a [CAS ref. 000293]

Distribution (Fig. 83):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tuscula* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula tuscula* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tuscula* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula tuscula*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tuscula* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tuscula* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula tuscula* Ehrenberg)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula tuscula*)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula tuscula* Ehr.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Navicula tuscula* Grunow)

Formatada: Portugal
(Portugal)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Aneumastus tusculos* (Ehrenberg)
Mann & Stickle, fossil)

***Anomoeoneis* Pfitzer 1871, p. 77**
[CAS ref. 000754]

***Anomoeoneis exilis* var. *azorica* Manguin 1942, p. 134; pl. 2, fig. 27**
[CAS ref. 000623]

Distribution (Fig. 84):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin)
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin)
Site: Pico Verde
References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *azorica* Manguin)

***Anomoeoneis exilis* var. *lanceolata* Mayer 1919**, p. 202; pl. 7, fig. 12-14 [CAS ref. 000637]

Formatada: Francê

Distribution (Fig. 85):

Código de campo a

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer)

Site: Pico Verde

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer); Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve var. *lanceolata* A. Mayer)

***Anomoeoneis sculpta* (Ehrenberg) Cleve 1895**, p. 6 [CAS ref. 000949]

Basionym: *Navicula sculpta* Ehrenberg 1854a [CAS ref. 000966]

Nomenclatural synonyms: *Anomoeoneis sphaerophora* var. *sculpta* (Ehrenberg) O. Müller 1900 [CAS ref. 000674]

Anomoeoneis sphaerophora f. *sculpta* (Ehrenberg) Krammer in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]

Distribution (Fig. 86):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 Santos et al. 2002 (as *Anomoeoneis sphaerophora* var. *sculpta* Ö. Muller)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 Santos et al. 2002 (as *Anomoeoneis sphaerophora* var. *sculpta* Ö. Muller)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Lagoacho Reservoir

Reference: Santos et al. 2002 (as *Anomoeoneis sphaerophora* var. *sculpta* Ö. Muller)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer f. *sculpta* (Ehrenberg) Krammer)

***Anomoeoneis sphaerophora* Pfitzer 1871**, p. 77; pl. 3, fig. 10 [CAS ref. 000754]

Basionym: *Navicula sphaerophora* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 87):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

- Reference: Santos et al. 2002 (as *Anomoeoneis sphaerophora* (Ehr.) Pfitzer)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Anomoeoneis sphaerophora*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Anomoeoneis sphaerophora*)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz.)
- Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Anomoeoneis sphaerophora* (Kütz.) Pfitz., fossil)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer)
- REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula sphaerophora*)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula sphaerophora* Ktz.)
- Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Anomoeoneis sphaerophora* (Ehrenberg) Pfitzer)

***Anomoeoneis* sp.**

Distribution (Fig. 88):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Anomoeoneis* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Anomoeoneis* sp.)

***Asterionella* Hassall 1850, pl. 2 (lower half)**
[CAS ref. 000470]

***Asterionella formosa* Hassall 1850, p. 10; pl. 2/lower figure, fig. 5**
[CAS ref. 000470]

Synonym: *Asterionella gracillima* (Hantzsch in Rabenhorst) Heiberg 1863 [CAS ref. 000471], according to Krammer & Lange-Bertalot 1991b, p. 103

Distribution (Fig. 89):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Macedo de Cavaleiros (District: Bragança)

Site: Azibo Reservoir, Azibo River (Douro Basin)

Reference: Vasconcelos 1991 (as *Asterionella formosa*)

Municipality: Mogadouro (District: Bragança)

Site: Bemposta Reservoir, Douro River (Douro Basin)

Reference: Galhano et al. 1991 (as *Asterionella formosa*)

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Asterionella formosa*); Oliveira et al. 1985 (as *Asterionella formosa*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

- Reference: Oliveira 1982a (as *Asterionella formosa*); Oliveira et al. 1985 (as *Asterionella formosa*)
- Subregion: Ave
- Municipality: Fafe (District: Braga)
- Site: Travassós, Vizela River (Ave Basin)
- Reference: Fidalgo 1990 (as *Asterionella formosa*)
- Municipality: Vieira do Minho (District: Braga)
- Site: Guilhofrei Reservoir, Ave River (Ave Basin)
- Reference: Nauwerck 1962 (as *Asterionella formosa* Hassal)
- Site: Salamonde Reservoir, Cávado River (Cávado Basin)
- Reference: Oliveira 1982a (as *Asterionella formosa*); Oliveira et al. 1985 (as *Asterionella formosa*); Oliveira 1985 (as *Asterionella formosa*)
- Subregion: Cávado
- Municipality: Terras de Bouro (District: Braga)
- Site: Borrageira (Serra do Gerês)
- Reference: González-Guerrero 1949 (as *Asterionella formosa* Hass.)
- Site: Pico de Borrageira (Serra do Gerês)
- Reference: González-Guerrero 1949 (as *Asterionella formosa* Hass.)
- Municipality: Not Specified
- Site: Cávado River (Cávado Basin)
- Reference: González-Guerrero 1949 (as *Asterionella formosa* Hass.); González-Guerrero 1950a (as *Asterionella formosa* Hass.)
- Site: Gerês River (Cávado Basin)
- Reference: González-Guerrero 1949 (as *Asterionella formosa* Hass.)
- Site: Homem River (Cávado Basin)
- Reference: González-Guerrero 1949 (as *Asterionella formosa* Hass.); González-Guerrero 1950a (as *Asterionella formosa* Hass.)
- Site: Leonte River (Cávado Basin)
- Reference: González-Guerrero 1950a (as *Asterionella formosa* Hass.)
- Subregion: Douro
- Municipality: Armamar (District: Viseu)
- Site: Queimadela, Vizela River (Ave Basin)
- Reference: Fidalgo 1990 (as *Asterionella formosa*)
- Subregion: Minho-Lima
- Municipality: Arcos de Valdevez (District: Viana do Castelo)
- Site: Abrótegas (Serra do Gerês)
- Reference: González-Guerrero 1950a (as *Asterionella formosa* Hass.)
- Site: Altar de Cabrões (Serra do Gerês)
- Reference: González-Guerrero 1949 (as *Asterionella formosa* Hass.); González-Guerrero 1950a (as *Asterionella formosa* Hass.)
- Site: Malhadoiro (Serra do Gerês)
- Reference: González-Guerrero 1950a (as *Asterionella formosa* Hass.)
- Municipality: Caminha (District: Viana do Castelo)
- Site: Seixas, Minho River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Asterionella formosa*)
- Municipality: Melgaço (District: Viana do Castelo)

Site: Melgaço, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Asterionella formosa*)
 Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Asterionella formosa*)
 Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Asterionella formosa*)
 Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Asterionella formosa*)
 Municipality: Not Specified
 Site: Ínsua do Ranhão, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Asterionella formosa*)
 Site: Lima River (Lima Basin)
 Reference: Cerqueira da Silva 1990 (as *Asterionella formosa*)
 Site: Minho River (Minho Basin)
 Reference: Cerqueira da Silva & Cunha 1992 (as *Asterionella formosa*)
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Asterionella formosa*)
 Subregion: Tâmega
 Municipality: Marco de Canavezes (District: Porto)
 Site: Torrão Reservoir, Tâmega River (Douro Basin)
 Reference: Branco & Guimarães 1991 (as *Asterionella formosa*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Ave River (Ave Basin)
 Reference: Cerqueira da Silva 1991 (as *Asterionella formosa*)

REGION: CENTRO
 Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Coimbra Reservoir, Mondego River (Mondego Basin)
 References: Craveiro & Santos 1997 (as *Asterionella formosa* Hassal);
 Craveiro & Santos 1998 (as *Asterionella formosa*)
 Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Marsh near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Asterionella formosa* Hassal)
 Municipality: Penacova (District: Coimbra)
 Site: Agueira Reservoir, Mondego River (Mondego Basin)
 Reference: Oliveira & Monteiro 1992 (as *Asterionella formosa*)
 Subregion: Baixo Vouga
 Municipality: Aveiro (District: Aveiro)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Asterionella formosa*)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)

- Site: Caldeirão Reservoir, Caldeirão Stream
Reference: MAOT 2002 (as *Asterionella formosa*)
- Subregion: Beira Interior Sul
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Asterionella formosa*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Asterionella formosa*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Asterionella formosa*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Asterionella formosa*)
Site: Pego, Tagus River (Tagus Basin)
Reference: Cerqueira da Silva 1989 (as *Asterionella formosa*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Asterionella formosa*); Brito & Andrade 1992 (as *Asterionella formosa*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Asterionella formosa*)
- Subregion: Pinhal Interior Norte
- Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Asterionella formosa* Hassal)
- Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Asterionella formosa*)
- Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Asterionella formosa*)
- Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Asterionella formosa*)
- Subregion: Pinhal Interior Sul
- Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Asterionella formosa*)
Subregion: Serra da Estrela
Municipality: Seia District: Guarda
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Asterionella formosa* Hassal)
Subregion: Not Specified
References: Calado 1990 (as *Asterionella formosa* Hassal); Almeida 1998 (as *Asterionella formosa* Hassal);
Feio et al. 2007 (as *Asterionella formosa*)
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Asterionella formosa*); Cerqueira da Silva et al. 1993 (as *Asterionella formosa*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Asterionella formosa*);
Rodrigues & Moita 1979b (as *Asterionella formosa*); Fernandes et al. 1987 (as *Asterionella formosa*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Asterionella formosa*); Oliveira 1984b (as *Asterionella formosa*); Oliveira 1987 (as *Asterionella formosa* Hassal)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Andrade & Brito 1995 (as *Asterionella formosa*); Oliveira & Monteiro 1995 (as *Asterionella formosa*); Oliveira 1996 (as *Asterionella formosa*)
Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Asterionella formosa*)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Asterionella formosa* Hassal)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Asterionella formosa* Hassal)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Asterionella formosa* Hassal)
Municipality: Castelo de Vide (District: Portalegre)

- Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Asterionella formosa*)
- Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Asterionella formosa*)
- Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Asterionella formosa* Hassal); Fernandes et al. 1987 (as *Asterionella formosa*)
- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*)
- Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Asterionella formosa*); Coutinho 1990a (as *Asterionella formosa*)
- Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Asterionella formosa*)
- Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Asterionella formosa*)
- Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*); Oliveira et al. 1989 (as *Asterionella formosa*)
- Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*)
- Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Asterionella formosa*)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Asterionella formosa*); Brito & Andrade 1992 (as *Asterionella formosa*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Guadiana River (Guadiana Basin)
Reference: Oliveira 1991 (as *Asterionella formosa*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Asterionella formosa*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Asterionella formosa*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Asterionella formosa* Hassal)

Site: Lagoa das Sete Cidades

References: Mölder 1947 (as *Asterionella formosa* Hassal); Oliveira 1989 (as *Asterionella formosa*)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Gonçalves 1997 (as *Asterionella formosa*); Gonçalves & Rodrigues 1999 (as *Asterionella formosa*)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Asterionella formosa*)

Municipality: Not Specified

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Asterionella formosa* Hassal)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Asterionella formosa* Hassal)

Site: Not Specified

Reference: Gonçalves 2008 (as *Asterionella formosa* Hassall)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Asterionella formosa*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Asterionella formosa* Hassal)

***Asterionella gracillima* (Hantzsch in Rabenhorst) Heiberg 1863**, p. 68; pl. 6, fig. 19 [CAS ref. 000471]

Basionym: *Diatoma gracillimum* Hantzsch in Rabenhorst 1861b [CAS ref. 011624]

Synonym: *Asterionella formosa* Hassall 1850 [CAS ref. 000470], according to Krammer & Lange-Bertalot 1991b, p. 103

Distribution (Fig. 90):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Nauwerck 1962 (as *Asterionella gracillima* (Hantzsch) Heib.); Frade 1963 (as *Asterionella gracillima* (Hantzsch) Heib.); Cabeçadas et al. 1980 (as *Asterionella gracillima*); Brito & Andrade 1992 (as *Asterionella gracillima*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Covão do Vidoal Reservoir (Mondego Basin)

Reference: Nauwerck 1962 (as *Asterionella gracillima* (Hantzsch) Heib.); Santos & Carvalho 2001 (as *Asterionella gracillima* (Hantz.) Heiberg)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Asterionella gracillima* (Hantzsch) Heib.)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Asterionella gracillima* (Hantzsch) Heib.)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Asterionella gracillima* (Hantzsch) Heib.)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Asterionella gracillima* (Hantzsch) Heib.)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Asterionella gracillima*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Nauwerck 1962 (as *Asterionella gracillima* (Hantzsch) Heib.)

***Asterionella* sp.**

Distribution (Fig. 91):

REGION: NORTE

Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: González-Guerrero 1950b (as *Asterionella* sp.)

REGION: CENTRO
Subregion: Oeste
Municipality: Alenquer (District: Lisboa)
Site: Alenquer, Alenquer River (Tagus Basin)
Reference: Frade 1941a (as *Asterionella* sp.)

***Aulacoseira Thwaites 1848*, p. 167**
[CAS ref. 000886]

***Aulacoseira alpigena* (Grunow) Krammer 1991**, p. 93; fig. 1-15
[CAS ref. 006893]

Basionym: *Melosira distans* var. *alpigena* Grunow in Van Heurck 1882 [CAS ref. 001036]

Distribution (Fig. 92):

REGION: CENTRO
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Covão do Vidoal Reservoir (Mondego Basin)
Reference: Nauwerck 1962 (as *Melosira distans* v. *alpigena* Grunow);
Santos & Carvalho 2001 (as *Melosira distans* (E.) Kg. var. *alpigena*
Grun.)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
Reference: Nauwerck 1962 (as *Melosira distans* v. *alpigena* Grunow);
Santos & Carvalho 2001 (as *Melosira distans* (E.) Kg. var. *alpigena*
Grun.)

REGION: ALENTEJO
Subregion: Alto Alentejo
Municipality: Nisa (District: Portalegre)
Site: Poio Reservoir, Nisa Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Melosira distans* v. *alpigena* Grunow)

***Aulacoseira ambigua* (Grunow) Simonsen 1979**, p. 56 [CAS ref. 003160]

Basionym: *Melosira crenulata* var. *ambigua* Grunow in Van Heurck 1882 [CAS ref. 001036]

Nomenclatural synonym: *Melosira ambigua* (Grunow in Van Heurck) O. Müller 1903a [CAS ref. 002097]

Distribution (Fig. 93):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Mogadouro (District: Bragança)

Site: Bemposta Reservoir, Douro River (Douro Basin)

Reference: Galhano et al. 1991 (as *Melosira ambigua*)

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Melosira ambigua*)

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Melosira ambigua*)

Subregion: Douro

Site: Vilar Reservoir, Távora River (Douro Basin)

Reference: Oliveira 1981 (as *Melosira ambigua*)

Municipality: Armamar (District: Viseu)

Site: Queimadela, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Melosira ambigua*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Melosira ambigua*)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Melosira ambigua*)

Municipality: Melgaço (District: Viana do Castelo)

Site: São Gregório, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Melosira ambigua*)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Melosira ambigua*)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Melosira ambigua*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Melosira ambigua*)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

- Reference: Formigo et al. 1993 (as *Melosira ambigua*)
Municipality: Not Specified
Site: Ínsua do Ranhão, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Melosira ambigua*)
Site: Lima River (Lima Basin)
Reference: Cerqueira da Silva 1990 (as *Melosira ambigua*)
Site: Minho River (Minho Basin)
Reference: Cerqueira da Silva & Cunha 1992 (as *Melosira ambigua*)
Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Aulacoseira ambigua*)
- REGION: CENTRO
- Subregion: Baixo Mondego
- Municipality: Coimbra (District: Coimbra)
Site: Coimbra Reservoir, Mondego River (Mondego Basin)
References: Craveiro & Santos 1997 (as *Aulacoseira ambigua* (Grunow) Simonsen); Craveiro & Santos 1998 (as *Aulacoseira ambigua*)
- Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Aulacoseira ambigua* (Grunow) Simonsen)
- Municipality: Penacova (District: Coimbra)
Site: Aguieira Reservoir, Mondego River (Mondego Basin)
Reference: Oliveira & Monteiro 1992 (as *Melosira ambigua*)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Aulacoseira ambigua* (Grun.) Simonsen)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Aulacoseira ambigua* (Grunow) Simonsen)
Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Aulacoseira ambigua* (Grun.) Simonsen)
Site: Valmaior (downstream of the mouth of River Filvida), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Aulacoseira ambigua* (Grun.) Simonsen)
- Subregion: Beira Interior Sul
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Melosira ambigua*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira ambigua*)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Melosira ambigua*)
- Subregion: Médio Tejo

- Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Melosira ambigua*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Melosira ambigua*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Melosira ambigua*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Andrade et al. 1988 (as *Melosira ambigua*); Brito & Andrade 1991 (as *Melosira ambigua*); Brito & Andrade 1992 (as *Melosira ambigua*); Cabeçadas et al. 1980 (as *Melosira ambigua*); Ferreira 1986 (as *Melosira ambigua*)
 Site: Pego, Tagus River (Tagus Basin)
 Reference: Cerqueira da Silva 1989 (as *Melosira ambigua*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Melosira ambigua*)
 Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Melosira ambigua*)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Melosira ambigua*)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Melosira ambigua*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Melosira ambigua*)
- Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Melosira ambigua*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Melosira ambigua*); Cerqueira da Silva et al. 1993 (as *Melosira ambigua*)
 Site: Not Specified
 References: Calado 1990 (as *Melosira ambigua* O. Müller); Feio et al. 2007 (as *Aulacoseira ambigua*)
- REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Melosira ambigua*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984a (as *Melosira ambigua*); Oliveira 1984b (as *Melosira ambigua*)

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Melosira ambigua*)

Municipality: Castelo de Vide (District: Portalegre)

Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Melosira ambigua*)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Melosira ambigua*)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Melosira ambigua*); Oliveira 1996 (as *Melosira ambigua*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

References: Oliveira 1984a (as *Melosira ambigua*); Coutinho 1990a (as *Melosira ambigua*)

Subregion: Alentejo Litoral

Site: Sado Estuary (Sado Basin)

Reference: Oliveira & Coutinho 1992 (as *Melosira ambigua*)

Municipality: Alcácer do Sal (District: Setúbal)

Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Melosira ambigua*)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Aulacoseira ambigua* (Grunow) O. Müller)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Melosira ambigua*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

References: Oliveira 1984a (as *Melosira ambigua*); Oliveira 1992 (as *Melosira ambigua* (Grun.) O. Müller)

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Melosira ambigua* (Grun.) O. Müll); Fernandes et al. 1987 (as *Melosira ambigua*)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

- Reference: Oliveira 1975 (as *Melosira ambigua*)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira ambigua*); INIP 1977 (as *Melosira ambigua* (Grun.) O. Müll.)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira ambigua*)
Site: Poio Reservoir, Nisa Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Melosira ambigua* (Grun.) O. Muell.)
- Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Melosira ambigua*)
Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Melosira ambigua*)
- Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Melosira ambigua*); Oliveira et al. 1989 (as *Melosira ambigua*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira ambigua*)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Melosira ambigua*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Melosira ambigua*); Brito & Andrade 1992 (as *Melosira ambigua*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Guadiana River (Guadiana Basin)
Reference: Oliveira 1991 (as *Melosira ambigua*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Melosira ambigua*)
- REGION: ALGARVE
Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira ambigua*)
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira ambigua*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Melosira ambigua*)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Krieger 1931 (as *Melosira ambigua*); Rodrigues et al. 1995 (as *Melosira ambigua*); Gonçalves 1997 (as *Aulacoseira ambigua*); Gonçalves & Rodrigues 1999 (as *Melosira ambigua*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Aulacoseira ambigua* (Grunow) Simonsen)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Aulacoseira ambigua* (Grunow) Simonsen)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Aulacoseira ambigua* (Grunow) Simonsen)

Site: Not Specified

Reference: Gonçalves 2008 (as *Aulacoseira ambigua* (Grunow) Simonsen)

REGION: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Melosira ambigua*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Aulacoseira ambigua* (Grun.) Simonsen)

***Aulacoseira crenulata* (Ehrenberg) Thwaites 1848**, p. 168 [CAS ref. 000886]

Basionym: *Gaillonella crenulata* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Melosira crenulata* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 94):

REGION: CENTRO

Subregion: Cova da Beira

Municipality: Fundão (District: Castelo Branco)

Site: Outeiro do Bispo

Reference: Zimmermann 1909b (as *Melosira crenulata* (Ehr.) Kuetz.)
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Melosira crenulata* (Ehr.) Kütz., fossil)

REGION: LISBOA
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Melosira crenulata* (Ehr.) Kütz., fossil)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Melosira crenulata* (Ehr.) Kütz., fossil)

Formatada: Inglês Unido

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Melosira crenulata* (Ehr.) Kütz.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira crenulata* (Ehrenberg) Krammer)

***Aulacoseira distans* (Ehrenberg) Simonsen 1979**, p. 57 [CAS ref. 003160]

Basionym: *Gaillonella distans* Ehrenberg 1837b [CAS ref. 000286]

Nomenclatural synonym: *Melosira distans* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 95):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira et al. 1985 (as *Melosira distans*)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Melosira distans*); Oliveira et al. 1985 (as *Melosira distans*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Guilhofrei Reservoir, Ave River (Ave Basin)

Reference: Nauwerck 1962 (as *Melosira distans* (Ehrenberg) Kützing)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

References: Oliveira 1982a (as *Melosira distans*); Oliveira 1985 (as *Melosira distans*); Oliveira et al. 1985 (as *Melosira distans*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Cabeçadas & Brogueira 1987 (as *Melosira distans*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Melosira distans*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Aulacoseira distans* (Ehrenberg) Simonsen)

Municipality: Penacova (District: Coimbra)

Site: Aguieira Reservoir, Mondego River (Mondego Basin)

Reference: Oliveira & Monteiro 1992 (as *Melosira distans*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Melosira distans*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Aulacoseira distans* (Ehrenberg) Simonsen)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Aulacoseira distans* (Ehrenberg) Simonsen)

Municipality: Anadia (District: Aveiro)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira distans*)

Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira distans*)

Municipality: Vale de Cambra (District: Aveiro)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Aulacoseira distans* (Ehrenberg) Simonsen)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Melosira distans* (Ehrenberg) Kützing)

Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel (Tagus Basin)
Reference: Zimmermann 1906 (as *Melosira distans* Kuetz.)

Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Melosira distans*)

Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira distans*)

Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Melosira distans*)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira distans* (Ehr.) Kützing)

Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Melosira distans*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Melosira distans*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira distans*)

Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Cabeçadas et al. 1980 (as *Melosira distans*); Andrade et al. 1988 (as *Melosira distans*); Brito & Andrade 1992 (as *Melosira distans*)

Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Melosira distans* Kuetz.)

Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira distans*)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Melosira distans*)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Aulacoseira distans* (Ehrenberg) Simonsen)

Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Melosira distans*)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Melosira distans*); Gil et al. 1991 (as *Melosira distans*)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)

References: Rodrigues & Moita 1979b (as *Melosira distans*); Fernandes et al. 1987 (as *Melosira distans*);
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Lagoa de Albufeira
Reference: Nauwerck 1962 (as *Melosira distans* (Ehrenberg) Kützing)
Subregion: Not Specified
Municipality: Not Specified
Site: Upper Tagus Estuary (Tagus Basin)
Reference: Brogueira et al. 2007 (as *Aulacoseira distans*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1984b (as *Melosira distans*)
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Melosira distans*)
Municipality: Nisa (District: Portalegre)
Site: Poio Reservoir, Nisa Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Melosira distans*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Melosira distans*)
Subregion: Alentejo Litoral
Site: Sado Estuary (Sado Basin)
Reference: Oliveira & Coutinho 1992 (as *Melosira distans*)
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Aulacoseira distans* (Ehrenberg) Kützing)
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Melosira distans*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Melosira distans* (Ehrenberg) Kützing)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Melosira distans* (E.) Kg.); Fernandes et al. 1987 (as *Melosira distans*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira distans*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)

- References: INIP 1977 (as *Melosira distans* (E.) Kg.); Fernandes et al. 1987 (as *Melosira distans*)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 References: Fernandes et al. 1987 (as *Melosira distans*); Oliveira et al. 1989 (as *Melosira distans*)
- Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Melosira distans*)
- Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Melosira distans* (Ehr.) Kütz., fossil)
- Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Melosira distans*)
- Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 References: Fernandes et al. 1987 (as *Melosira distans*); Brito & Andrade 1992 (as *Melosira distans*);
- Subregion: Not Specified
- Municipality: Not Specified
 Site: Guadiana River (Guadiana Basin)
 Reference: Oliveira 1991 (as *Melosira distans*)
 Site: Rocha da Galé, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Melosira distans*)

REGION: ALGARVE

Subregion: Algarve

- Municipality: Lagos (District: Faro)
 Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Melosira distans*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Falca (Terceira Island)
 Reference: Gonçalves 1996 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
 Site: Lagoa da Joaninha
 Reference: Gonçalves 1996 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
- Municipality: Lajes do Pico (Pico Island)
 Site: Lagoa do Caiado
 Reference: Mölder 1947 (as *Melosira ambigua*)
- Municipality: Povoação (São Miguel Island)
 Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Melosira distans* Ehr.)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira distans* (Ehrenberg) Simonsen)
Site: Not Specified
Reference: Gonçalves 2008 (as *Aulacoseira distans* (Ehrenberg) Simonsen)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Melosira distans*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Aulacoseira distans* (Ehr.) Simonsen)

***Aulacoseira distans* var. *africana* (O. Müller) Simonsen 1979, p. 57**
[CAS ref. 003160]

Basionym: *Melosira distans* var. *africana* O. Müller 1904 [CAS ref. 001400]

Distribution (Fig. 96):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Melosira distans africana* Müll.)

***Aulacoseira distans* var. *nivalis* (W. Smith) E.Y. Haworth 1990**, p. 195 [CAS ref. 008332]

Basionym: *Melosira nivalis* W. Smith 1856 [CAS ref. 001007]

Nomenclatural synonym: *Melosira distans* var. *nivalis* (W. Smith) Kirchner 1878 [CAS ref. 000561]

Distribution (Fig. 97):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1914 (as *Melosira distans* (Ehr.) Kuetz. var. *nivalis* (W. Sm.) Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Melosira distans* var. *nivalis* Sm.)

***Aulacoseira granulata* (Ehrenberg) Simonsen 1979**, p. 58 [CAS ref. 003160]

Basionym: *Gaillonella granulata* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Melosira granulata* (Ehrenberg) Ralfs in Pritchard 1861

Distribution (Fig. 98):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Macedo de Cavaleiros (District: Bragança)

Site: Azibo Reservoir, Azibo River (Douro Basin)

Reference: Vasconcelos 1991 (as *Melosira granulata* (E.) Ralfs)

Municipality: Mogadouro (District: Bragança)

Site: Bemposta Reservoir, Douro River (Douro Basin)

Reference: Galhano et al. 1991 (as *Melosira granulata*)

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Melosira granulata*)

Subregion: Minho-Lima

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Melosira granulata*)
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Aulacoseira granulata*)
 Site: Minho River (Minho Basin)
 Reference: Cerqueira da Silva & Cunha 1992 (as *Melosira granulata*)
 Municipality: Caminha (District: Viana do Castelo)
 Site: Seixas, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Melosira granulata*)
 Municipality: Melgaço (District: Viana do Castelo)
 Site: Melgaço, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Melosira granulata*)
 Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Melosira granulata*)
 Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Melosira granulata*)
 Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Melosira granulata*)
 Subregion: Tâmega
 Municipality: Marco de Canavezes (District: Porto)
 Site: Torrão Reservoir, Tâmega River (Douro Basin)
 Reference: Branco & Guimarães 1991 (as *Melosira granulata*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Ave Reservoirs, Ave River (Ave Basin)
 References: Branco et al., 1991a (as *Melosira granulata*); Branco et al. 1991b (as *Melosira granulata*)

REGION: CENTRO

Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Coimbra Reservoir, Mondego River (Mondego Basin)
 Reference: Craveiro & Santos 1997 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
 Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: de Figueiredo et al. 2006 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
 Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Irrigation channel near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
 Site: Marsh near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)

- Municipality: Penacova (District: Coimbra)
 Site: Aguieira Reservoir, Mondego River (Mondego Basin)
 Reference: Oliveira & Monteiro 1992 (as *Melosira granulata*)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
 (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Melosira granulata*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
- Municipality: Albergaria-a-Velha
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Melosira granulata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Melosira granulata*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Melosira granulata*); Almeida 1998 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Melosira granulata*)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Melosira granulata*)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
 River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
- Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Site: Vagueira, Canal de Mira
 Reference: Mendes et al. 2009 (as *Aulacoseira granulata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Melosira granulata*); Almeida 1998 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Melosira granulata*)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Melosira granulata* (Ehrenberg) Ralfs)
- Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Melosira granulata*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Melosira granulata*)
- Site: Fratel, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Melosira granulata*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
- Municipality: Tondela District: Viseu
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)

- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira granulata* (Ehr.) Ralfs)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Melosira granulata*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Melosira granulata*)
Site: Pego, Tagus River (Tagus Basin)
Reference: Cerqueira da Silva 1989 (as *Melosira granulata*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira granulata*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Frade 1961 (as *Melosira granulata*); Cabeçadas et al. 1980 (as *Melosira granulata*); Brito & Andrade 1992 (as *Melosira granulata*)
- Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (*Melosira granulata* (E.) Ralfs)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Melosira granulata* (Ehrenberg) Ralfs)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira granulata*)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Melosira granulata*)
- Subregion: Pinhal Interior Norte
- Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Aulacoseira granulata* (Ehrenberg) Simonsen)
- Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Melosira granulata*)
- Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Melosira granulata*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Melosira granulata*)

Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Melosira granulata*)
Subregion: Not specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Melosira granulata*); Cerqueira da Silva et al. 1993 (as *Melosira granulata*)
Site: Not Specified
Reference: Calado 1990 (as *Melosira granulata* (Ehrenberg) Ralfs)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Sintra (District: Lisboa)
Site: Mula Reservoir, Mula Stream (Western Streams Basin)
Reference: Ferreira 1986 (as *Melosira granulata*)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979a (as *Melosira granulata*); Rodrigues & Moita 1979b (as *Melosira granulata*); Fernandes et al. 1987 (as *Melosira granulata*)
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Melosira granulata* (Ehr.) Ralfs, fossil)
Site: Lagoa de Albufeira
Reference: Nauwerck 1962 (as *Melosira granulata* (Ehrenberg) Ralfs)
Subregion: Not Specified
Municipality: Not Specified
Site: Upper Tagus Estuary (Tagus Basin)
Reference: Brogueira et al. 2007 (as *Aulacoseira granulata*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Melosira granulata*); Oliveira 1984b (as *Melosira granulata*); Andrade & Brito 1995 (as *Melosira granulata*)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1993a (as *Melosira granulata*); Oliveira & Monteiro 1993b (as *Melosira granulata*); Andrade & Brito 1995 (as *Melosira granulata*); Oliveira & Monteiro 1995 (as *Melosira granulata*); Oliveira 1996 (as *Melosira granulata*)

Subregion: Alentejo Litoral

Site: Sado Estuary (Sado Basin)

Reference: Oliveira & Coutinho 1992 (as *Melosira granulata*)

Municipality: Alcácer do Sal (District: Setúbal)

Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)

References: Oliveira 1984a (as *Melosira granulata*); Ferreira 1986 (as *Melosira granulata*); Coutinho 1990b (as *Melosira granulata*)

Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)

Reference: Nauwerck 1962 (as *Melosira granulata* (Ehrenberg) Ralfs)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Melosira granulata*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Melosira granulata*)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Melosira granulata*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Melosira granulata*)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Melosira granulata*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Melosira granulata* (E.) Ralfs); Fernandes et al. 1987 (as *Melosira granulata*)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Melosira granulata*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Melosira granulata*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Melosira granulata* (E.) Ralfs); Fernandes et al. 1987 (as *Melosira granulata*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Melosira granulata*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Melosira granulata* (E.) Ralfs)

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Formatada: Portug
(Portugal)

- Reference: Andrade & Brito 1991 (as *Melosira granulata*)
Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Melosira granulata*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Melosira granulata*); Oliveira et al. 1989 (as *Melosira granulata*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira granulata*)
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Melosira granulata* Ehr., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Melosira granulata* Ehr., fossil)
Site: Not Specified
Reference: Silva 1946b (as *Melosira granulata* (Ehr.) Ralfs, fossil)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
References: Nauwerck 1962 (as *Melosira granulata* (Ehrenberg) Ralfs); Oliveira 1984a (as *Melosira granulata*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Melosira granulata*); Brito & Andrade 1992 (as *Melosira granulata*)
Subregion: Not specified
Municipality: Not Specified
Site: Guadiana Estuary (Guadiana Basin)
Reference: Gouveia et al. 1999 (as *Melosira granulata*)
Site: Guadiana River (Guadiana Basin)
Reference: Oliveira 1991 (as *Melosira granulata*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Melosira granulata*)
- REGION: ALGARVE
Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira granulata*)
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira granulata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Melosira granulata* (Ehrenberg) Ralfs);
Bourrelly & Manguin 1946a (as *Melosira granulata* (Ehrenberg) Ralfs)

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Melosira granulata* (Ehrenberg) Ralfs)

Site: Lagoa Grande
Reference: Mölder 1947 (as *Melosira granulata* (Ehrenberg) Ralfs)

Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Melosira granulata* (Ehrenberg) Ralfs)

Site: Pico da Cruz
Reference: Holmboe 1901 (as *Melosira granulata* (Ehrenberg) Ralfs)

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Mölder 1947 (as *Melosira granulata* (Ehrenberg) Ralfs);
Rodrigues et al. 1995 (as *Melosira granulata*); Gonçalves 1997 (as
Aulacoseira granulata); Gonçalves & Rodrigues 1999 (as *Aulacoseira
granulata*)

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira granulata* (Ehrenberg)
Simonsen)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira granulata* (Ehrenberg)
Simonsen)

Site: Not Specified
Reference: Gonçalves 2008 (as *Aulacoseira granulata* (Ehrenberg)
Simonsen)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Funchal
Reference: Tempère & Peragallo 1907-1915 (as *Melosira granulata*
Ralfs)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Melosira granulata*)

Site: Not Specified
Reference: INAG I.P. 2008 (as *Aulacoseira granulata* (Ehr.) Simonsen)

***Aulacoseira granulata* var. *angustissima* (O. Müller) Simonsen 1979, p. 58 [CAS ref. 003160]**

Basionym: *Melosira granulata* var. *angustissima* O. Müller 1900 [CAS ref. 000674]

Distribution (Fig. 99):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Melosira granulata* v. *angustissima* O. Muell)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Aulacoseira granulata* var. *angustissima*); de Figueiredo et al. 2006 (as *Aulacoseira granulata* (Ehrenberg) Simonsen var. *angustissima* (O. Müller) Simonsen)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller)

- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Aulacoseira granulata* (Ehr.) Simonsen var. *angustissima* (O. Müller) Simonsen)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Melosira granulata* v. *angustissima*)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Aulacoseira granulata* (Ehr.) Simonsen var. *angustissima* (O. Müller) Simonsen)
- Site: Requeixo 1, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira granulata* v. *angustissima*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira granulata* v. *angustissima*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira granulata* v. *angustissima*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira granulata* v. *angustissima*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira granulata* v. *angustissima*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller); Gil et al. 1989-1990 (as *Melosira granulata* v. *angustissima*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Melosira granulata* (Ehr.) v. *angustissima* O. Müller)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Melosira granulata angustissima*)
- Site: Forno Novo, Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Melosira granulata angustissima*)
- Municipality: Tomar (District: Santarém)
- Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
- Reference: Brito & Andrade 1992 (as *Melosira granulata* var. *angustissima*)
- Subregion: Pinhal Interior Norte
- Municipality: Arganil (District: Coimbra)
- Site: Fronhas Reservoir, Alva River (Mondego Basin)
- Reference: Santos et al. 2002 (as *Aulacoseira granulata* var. *angustissima* (O. Müller) Simonsen)
- Municipality: Montemor-o-Velho (District: Coimbra)
- Site: Marsh near Montemor-o-Velho
- Reference: Santos et al. 2002 (as *Aulacoseira granulata* var. *angustissima* (O. Müller) Simonsen)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Paiva River (Douro Basin)
- References: Cerqueira da Silva 1991 (as *Melosira granulata angustissima*); Cerqueira da Silva et al. 1993 (as *Melosira granulata angustissima*)
- Site: Not Specified
- Reference: Calado 1990 (as *Melosira granulata* (Ehr.) Ralfs var. *angustissima* O. Müller)
- REGION: ALENTEJO
- Subregion: Alentejo Central
- Municipality: Arraiolos (District: Évora)
- Site: Divor Reservoir, Divor Stream (Tagus Basin)
- Reference: Oliveira 1984a (as *Melosira granulata* v. *angustissima*)
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
- Site: São Romão, Sado River (Sado Basin)
- Reference: Coutinho 2003 (as *Aulacoseira granulata* var. *angustissima* (Otto Müller) Simonsen)
- Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
- Reference: Oliveira 1984a (as *Melosira granulata* v. *angustissima*)
- Municipality: Odemira (District: Beja)
- Site: Santa Clara Reservoir, Mira River (Mira Basin)
- Reference: Oliveira 1984a (as *Melosira granulata* v. *angustissima*)

- Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Melosira granulata* v. *angustissima*)
- Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Melosira granulata* var. *angustissima* O.M.)
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Melosira granulata* var. *angustissima*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Melosira granulata* var. *angustissima*)
- Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Melosira granulata* v. *angustissima* O. Muell)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Melosira granulata* var. *angustissima*)

REGION: ALGARVE

- Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira granulata* v. *angustissima*)
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira granulata* v. *angustissima*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Melosira granulata* v. *angustissima* O. Muell)
Site: Lagoa Grande
Reference: Mölder 1947 (as *Melosira granulata* v. *angustissima* O. Muell)
Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Melosira granulata* v. *angustissima* O. Muell)
Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Melosira granulata* v. *angustissima* O. Muell)

***Aulacoseira granulata* f. *curvata* (Hustedt) Simonsen 1979**, p. 59
[CAS ref. 003160]

Basionym: *Melosira granulata* f. *curvata* Hustedt 1935 [CAS ref. 000509]

Distribution (Fig. 100):

REGION: LISBOA
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Melosira granulata* f. *curvata* (Grunow) Hustedt, fossil)

***Aulacoseira islandica* (O. Müller) Simonsen 1979**, p. 60 [CAS ref. 003160]

Basionym: *Melosira islandica* O. Müller 1906 [CAS ref. 002199]

Distribution (Fig. 101):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira islandica*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira islandica*)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Melosira islandica*)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Melosira islandica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Cedercreutz 1941 (as *Melosira islandica*)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Melosira islandica* O. Müll.); Bourrelly &

Manguin 1946a (as *Melosira islandica* O. Müll.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Aulacoseira islandica* (O. Müller) Simonsen)

***Aulacoseira islandica* subsp. *helvetica* (O. Müller) Simonsen 1979,**
p. 60 [CAS ref. 003160]

Basionym: *Melosira islandica* subsp. *helvetica* O. Müller 1906 [CAS ref. 002199]

Distribution (Fig. 102):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Bouro Reservoir, Homem River (Cávado Basin)

Reference: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Bom-Sucesso

Reference: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Marechal Carmona Reservoir, Ponsul River (Tagus Basin)

Reference: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Covão do Vidoal Reservoir (Mondego Basin)

References: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.); Santos & Carvalho 2001 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

References: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.); Santos & Carvalho 2001 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

Site: Lagoa Escura

References: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.); Santos & Carvalho 2001 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Lagoa de Albufeira

Reference: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Melosira islandica* ssp. *helvetica* O. Muell.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação

Site: Lagoa das Furnas

Reference: Cedercreutz 1941 (as *Melosira islandica helvetica*)

***Aulacoseira italica* (Ehrenberg) Simonsen 1979**, p. 60 [CAS ref. 003160]

Basionym: *Gaillonella italica* Ehrenberg 1838 [CAS ref. 000288]

Nomenclatural synonym: *Melosira italica* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 103):

REGION: NORTE

Subregion: Cávado

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Melosira italica*)

Municipality: Not Specified

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Melosira italica*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Melosira italica*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Melosira italica*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Melosira italica*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Melosira italica*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Melosira italica*)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Melosira italica*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Melosira italica*)

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Lagoa de Albufeira

Reference: Nauwerck 1962 (as *Melosira italica* (E.) Kützing)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Nauwerck 1962 (as *Melosira italica* (E.) Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Melosira italica* (E.) Kützing)

Site: Lagoa das Sete Cidades

References: Mölder 1947 (as *Melosira italica* (E.) Kützing); Oliveira 1989 (as *Melosira italica*)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Aulacoseira italica* (Ehrenberg) Crawford, Likoshway & Jahn)

Site: Not Specified

Reference: Gonçalves 2008 (as *Aulacoseira italica* (Ehrenberg) Crawford, Likoshway & Jahn)

Formatada: Portugal
(Portugal)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Melosira italica* (E.) Kützing)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Melosira italica*)

***Aulacoseira italica* var. *subarctica* (O. Müller) Davydova in Gleser, Makarova, Moisseeva & Nikolaev 1992, p. 82-83; pl. 61, fig. 19-20 'Aulacosira' [CAS ref. 006385]**

Basionym: *Melosira italica* subsp. *subarctica* O. Müller 1906 [CAS ref. 002199]

Nomenclatural synonym: *Aulacoseira subarctica* (O. Müller) E.Y. Haworth 1990 [CAS ref. 008332]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Aulacoseira subarctica* (O. Muller) Haworth)

***Aulacoseira italica* var. *tenuissima* (Grunow) Simonsen 1979**, p. 60
[CAS ref. 003160]

Basionym: *Melosira tenuissima* Grunow in Van Heurck 1882 [CAS ref. 001036]

Nomenclatural synonym: *Melosira italica* var. *tenuissima* (Grunow in Van Heurck) O. Müller 1904 [CAS ref. 001400]

Distribution (Fig. 104):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Chaves 1908 (as *Melosira tenuissima* Ktz.); Manguin 1942 (as *Melosira italica* (Ehr.) Kütz. var. *tenuissima* (Grun.) O. Müll); Bourrelly & Manguin 1946a (as *Melosira italica* (Ehr.) Kütz. var. *tenuissima* (Grun.) O. Müll)

Site: Ribeira Quente

References: Manguin 1942 (as *Melosira italica* (Ehr.) Kütz. var. *tenuissima* (Grun.) O. Müll); Bourrelly & Manguin 1946a (as *Melosira italica* (Ehr.) Kütz. var. *tenuissima* (Grun.) O. Müll)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Melosira italica* (Ehr.) Kütz. var. *tenuissima* (Grun.) O. Müll); Bourrelly & Manguin 1946a (as *Melosira italica* (Ehr.) Kütz. var. *tenuissima* (Grun.) O. Müll)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

Reference: Manguin 1942 (as *Melosira italica* (Ehr.) Kütz. var. *tenuissima* (Grun.) O. Müll)

***Aulacoseira lacustris* f. *tenuior* (Grunow) Houk, Klee & Passauer 2007**, p. 71 [CAS ref. 012912]

Basionym: *Melosira lyrata* f. *tenuior* (*tenuiores*) Grunow in Van Heurck 1882 [CAS ref. 001036]

Nomenclatural synonym: *Aulacoseira tenuior* (Grunow) Krammer 1991 [CAS ref. 006893]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Aulacoseira tenuior* Krammer)

***Aulacoseira lirata* (Ehrenberg) R. Ross in Hartley, Ross & Williams 1986**, p. 606-607 [CAS ref. 002355]

Basionym: *Gaillonella lirata* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Melosira distans* var. *lirata* (Ehrenberg) VanLandingham 1971 [CAS ref. 006305]

Distribution (Fig. 105):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Marechal Carmona Reservoir, Ponsul River (Tagus Basin)

Reference: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge);
Frade 1963 (as *Melosira distans* var. *lirata* (E.) Bethge)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Covão do Vidoal Reservoir (Mondego Basin)

References: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge);
Santos & Carvalho 2001 (as *Melosira distans* (E.) Kg. var. *lirata* (E.)
Bethge)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

References: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge);
Santos & Carvalho 2001 (as *Melosira distans* (E.) Kg. var. *lirata* (E.)
Bethge)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Lagoa de Albufeira

Reference: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Pêgo do Altar Reservoir (ancient Salazar Reservoir), Alcáçovas Stream (Sado Basin)

Reference: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge)

Subregion: Alto Alentejo

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge)

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Melosira distans* v. *lirata* (E.) Bethge)

***Aulacoseira muzzanensis* (F. Meister) Krammer 1991**, p. 98 [CAS ref. 006893]

Basionym: *Melosira muzzanensis* F. Meister 1912 [CAS ref. 000642]

Distribution (Fig. 106):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Aulacoseira muzzanensis* (Meister) Krammer)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

Reference: Santos et al. 2002 (as *Aulacoseira muzzanensis* (Meister) Krammer)

***Aulacoseira perglabra* (Østrup) E.Y. Haworth 1990**, p. 195 [CAS ref. 008332]

Basionym: *Melosira perglabra* Østrup 1910 [CAS ref. 000706]

Distribution (Fig. 107):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Aulacoseira perglabra* (Oestrup)
Haworth)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
Reference: Santos et al. 2002 (as *Aulacoseira perglabra* (Oestrup)
Haworth)

***Aulacoseira pfaffiana* (Reinsch) Krammer 1991**, p. 94; fig. 45-54
[CAS ref. 006893]

Basionym: *Melosira pfaffiana* Reinsch 1866 [CAS ref. 000791]:

Distribution (Fig. 108):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Aulacoseira pfaffiana* (Reinsch)
Krammer)

***Aulacoseira subarctica* f. *recta* (O. Müller) Krammer in Krammer
& Lange-Bertalot 1991a**, p. 28 [CAS ref. 006521]

Basionym: *Melosira italica* f. *recta* O. Müller 1906 [CAS ref. 002199]

Distribution (Fig. 109):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (as District: Coimbra)
Site: Coimbra Reservoir, Mondego River (Mondego Basin)
References: Craveiro & Santos 1997 (as *Aulacoseira subarctica* (O.M.)
Haworth f. *recta* (O.M.) Krammer); Craveiro & Santos 1998 (as
Aulacoseira subarctica f. *recta*)

***Aulacoseira tethera* E.Y. Haworth 1990**, p. 195 [CAS ref. 008332]

Distribution (Fig. 110):

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Aulacoseira tethera* Haworth)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
Reference: Santos et al. 2002 (as *Aulacoseira tethera* Haworth)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Aulacoseira tethera* Haworth)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Aulacoseira tethera* Haworth)

***Aulacoseira* sp.**

Distribution (Fig. 111):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Bragança (District: Bragança)
Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)
Reference: Geraldès & Boavida 2005 (as *Aulacoseira* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Aulacoseira* spp.)

***Auliscus* Ehrenberg 1843b, p. 270 [CAS ref. 001182]**

***Auliscus cylindricus* Ehrenberg 1844a, p. 271 [CAS ref. 001182]**

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Auliscus cylindricus*)

***Bacillaria* J.F. Gmelin 1788**, Tomus I, pars 6, p. 3903
[CAS ref. 000613]

***Bacillaria paradoxa* J.F. Gmelin in Linnaeus 1788**, p. 3903 [CAS ref. 000613]

Synonym: *Bacillaria paxillifera* (O.F. Müller) Hendey 1951 [CAS ref. 000477], according to Krammer & Lange-Bertalot 1988, p. 8 and to Jahn & Schmid 2007, p. 297

Distribution (Fig. 112):

REGION: NORTE

Subregion: Cávado

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Bacillaria paradoxa*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Bacillaria paradoxa* Gmelin)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Bacillaria paradoxa* Gmelin)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Bacillaria paradoxa* Gmelin)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Bacillaria paradoxa*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Bacillaria paradoxa*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Bacillaria paradoxa*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Bacillaria paradoxa* Gmelin)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Bacillaria paradoxa* Gmelin)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Bacillaria paradoxa* Gmelin)

Municipality: Mealhada (District: Aveiro)

- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Bacillaria paradoxa*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Bacillaria paradoxa*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Bacillaria paradoxa* Gmelin)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Bacillaria paradoxa*); Almeida 1998 (as *Bacillaria paradoxa* Gmelin)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Bacillaria paradoxa*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Bacillaria paradoxa* Gmelin)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Bacillaria paradoxa*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Frade 1952 (as *Bacillaria paradoxa*); Frade 1954 (as *Bacillaria paradoxa*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Bacillaria paradoxa*)
- Subregion: Oeste
Municipality: Alenquer (District: Lisboa)
Site: Alenquer, Alenquer River (Tagus Basin)
Reference: Frade 1941a (as *Bacillaria paradoxa*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Bacillaria paradoxa* Gmelin); Gil et al. 1991 (as *Bacillaria paradoxa*)
- REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Bacillaria paradoxa*)
- REGION: ALENTEJO
Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Bacillaria paradoxa* Hust.); Fernandes et al. 1987 (as *Bacillaria paradoxa*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Bacillaria paradoxa*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Bacillaria paradoxa*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Bacillaria paradoxa* Gmelin)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Bacillaria paradoxa* Gmelin)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Bacillaria paradoxa* Gmelin)
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Bacillaria paradoxa*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Bacillaria paradoxa*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Bacillaria paradoxa*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Bacillaria paradoxa*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Bacillaria paradoxa* Gmelin)

***Bacillaria paxillifera* (O.F. Müller) Hendey 1951, p. 74 'paxillifer'**
[CAS ref. 000477]

Basionym: *Vibrio paxillifer* O.F. Müller 1786 [CAS ref. 000679]

Synonym: *Bacillaria paradoxa* J.F. Gmelin in Linnaeus 1788 [CAS ref. 000613], according to Krammer & Lange-Bertalot 1988, p. 8 and to Jahn & Schmid 2007, p. 297

Distribution (Fig. 113):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Bacillaria paxillifer*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Bacillaria paxillifer*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Bacillaria paxillifer*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Bacillaria paxillifer*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Bacillaria paxillifer* (Muller) Hendey)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001 (as *Bacillaria paxillifera* (O.F. Müller) Hendey)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Bacillaria paxillifer*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Bacillaria paxillifera* (Müller) Hendey)

***Bacillaria* sp.**

Distribution (Fig. 114):

REGION: CENTRO

Subregion: Oeste

Municipality: Alenquer (District: Lisboa)

Site: Alenquer, Alenquer Reservoir

Reference: Frade 1941b (as *Bacillaria* sp.)

***Belonastrum* (Lemmermann) Round & N.I. Maidana
2001, p. 22 [CAS ref. 009507]**

***Belonastrum berolinensis* (Lemmermann) Round & Maidana
2001, p. 22 [CAS ref. 009507]**

Basionym: *Synedra berolinensis* Lemmermann 1900a [CAS ref. 002757]

Distribution (Fig. 115):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Synedra berolinensis*)

***Biddulphia* Gray 1821, p. 294
[CAS ref. 000390]**

***Biddulphia amphicephala* (Ehrenberg) Ralfs in Pritchard 1861, p.
849 [CAS ref. 001063]**

Basionym: *Odontella amphicephala* Ehrenberg 1845a [CAS ref. 000957]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Odontella? amphicephala*)

***Biddulphia brevis* Ehrenberg 1845a, p. 361 [CAS ref. 000957]**

Distribution:

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Biddulphia brevis*)

***Biddulphia* sp.**

Distribution (Fig. 116):

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Biddulphia* sp.)
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Biddulphia* sp.)

***Biremis* D.G. Mann & E.J. Cox in Round, Crawford & Mann 1990, p. 664 [CAS ref. 003245]**

***Biremis zachariasii* (Reichelt) Edlund, N.A. Andresen & Soninkhishig 2001, p. 303 [CAS ref. 009403]**

Basionym: *Navicula zachariasii* Reichelt 1903 [CAS ref. 000786]

Nomenclatural synonym: *Caloneis zachariasii* (Reichelt) Hustedt 1930

Distribution (Fig. 117):

REGION: NORTE
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Caloneis zachariasii* Reichelt)

Formatada: Portugal
(Portugal)

***Brachysira* Kützing 1836, p. [3], no. 153
[CAS ref. 003207]**

***Brachysira brebissonii* R. Ross in Hartley, Ross & Williams 1986,**
p. 607 [CAS ref. 002355]

Basionym: *Navicula brachysira* Brébisson in Rabenhorst 1853 [CAS ref. 000772]

Nomenclatural synonyms: *Anomoeoneis brachysira* (Brébisson in Rabenhorst)
Cleve 1895 [CAS ref. 000949]

Anomoeoneis serians var. *brachysira* (Brébisson in Rabenhorst) Hustedt 1930 [CAS
ref. 000502]

Distribution (Fig. 118):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Anomoeoneis brachysira* (Brébisson)
Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Anomoeoneis brachysira* (Brébisson)
Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v.
brachysira Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v.
brachysira)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v.
brachysira Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v.
brachysira); Almeida 1998 (as *Anomoeoneis brachysira* (Brébisson)
Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v.
brachysira Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v.
brachysira)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v.
brachysira Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v.
brachysira)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Anomoeoneis brachysira* (Brébisson) Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Anomoeoneis brachysira* (Brébisson) in Rabenhorst) Grunow in Cleve)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)
- Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt); Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Anomoeoneis serians* v. *brachysira*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* Hustedt)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

Reference: Santos et al. 2002 (as *Anomoeoneis brachysira* (Brébisson) Grunow)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Anomoeoneis brachysira* (Brébisson) Grunow)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Anomoeoneis brachysira* (Brébisson) Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Anomoeoneis serians* v. *brachysira*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Anomoeoneis brachysira* (Brébisson) Grunow var. *brachysira* Krammer & Lange-Bertalot)

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Anomoeoneis serians* v. *brachysira* (Bréb.) Hust.)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa
References: Manguin 1942 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.); Bourrelly & Manguin 1946a (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.)
Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.)
Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira
References: Manguin 1942 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.); Bourrelly & Manguin 1946a (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.)
Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário
Reference: Mölder 1947 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.)
Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Anomoeoneis brachysira* (Brèbisson) Grunow var. *brachysira* Krammer & Lange-Bertalot)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Anomoeoneis brachysira* (Brèbisson) Grunow var. *brachysira* Krammer & Lange-Bertalot)
Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande
References: Manguin 1942 (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.); Bourrelly & Manguin 1946a (as *Anomoeoneis serians* (Bréb.) Cleve v. *brachysira* (Bréb.) Hust.)
Municipality: Not Specified

Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Brachysira brebissonii* Ross in Hartley)

Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Brachysira brebissonii* Ross in Hartley)

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Brachysira brebissonii* Ross in Hartley)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Brachysira brebissonii* Ross in Hartley)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Brachysira brebissonii* Ross in Hartley)

Site: Terceira Island

Formatada: Inglês Unido

Formatada: Inglês Unido

Reference: Gonçalves et al. 2010 (as *Brachysira brebissonii* Ross in Hartley)
Site: Not Specified
Reference: Gonçalves 2008 (as *Brachysira brebissonii* Ross in Hartley)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Anomoeoneis brachysira* (Brebisson in Rabenhorst) Grunow in Cleve)

***Brachysira brebissonii* f. *thermalis* (Grunow in Van Heurck) R. Ross in Hartley, Ross & Williams 1986, p. 607 [CAS ref. 002355]**

Basionym: *Navicula seriens* var. *thermalis* Grunow in Van Heurck 1880 [CAS ref. 000895]

Nomenclatural synonym: *Anomoeoneis seriens* f. *thermalis* (Grunow in Van Heurck) Hustedt 1930 (as *Anomoeoneis seriens* var. *brachysira* f. *thermalis*) [CAS ref. 000502]

Distribution (Fig. 119):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Anomoeoneis seriens* (Bréb.) Cleve fo. *thermalis* (Grun.) Hust.); Bourrelly & Manguin 1946a (as *Anomoeoneis seriens* (Bréb.) Cleve fo. *thermalis* (Grun.) Hust.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Anomoeoneis seriens* (Bréb.) Cleve fo. *thermalis* (Grun.) Hust.); Bourrelly & Manguin 1946a (as *Anomoeoneis seriens* (Bréb.) Cleve fo. *thermalis* (Grun.) Hust.)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Anomoeoneis seriens* (Bréb.) Cleve fo. *thermalis* (Grun.) Hust.); Bourrelly & Manguin 1946a (as *Anomoeoneis seriens* (Bréb.) Cleve fo. *thermalis* (Grun.) Hust.)

Formatada: Inglês Unido

Formatada: Português (Portugal)

***Brachysira exilis* (Kützing) Round & D.G. Mann 1981, p. 227 [CAS ref. 006882]**

Basionym: *Navicula exilis* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Colletonema exile* (Kützing) Grunow 1860 [CAS ref. 000427]

Anomoeoneis exilis (Kützing) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 120):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1910 (as *Navicula exilis* Kütz.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula exilis*)

- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Navicula exilis* Koetzing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula exilis* Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula exilis*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula exilis* Kützing)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula exilis* Kützing)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Navicula exilis*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula exilis* Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula exilis* Kützing); Gil et al. 1989-1990 (as *Navicula exilis*)
- Subregion: Pinhal Interior Norte
- Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Anomoeoneis exilis*)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Navicula exilis* Kützing)
- Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula exilis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Anomoeoneis exilis* (Kütz.) Cleve)
Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve);
Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve)
Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Colletonema exilis* Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Anomoeoneis exilis* (Kütz.) Cleve);
Bourrelly & Manguin 1946a (as *Anomoeoneis exilis* (Kütz.) Cleve)
Municipality: Not Specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula exilis* Kützing)
Site: São Jorge Island
Reference: Johansson 1977 (as *Anomoeoneis exilis* (Kütz.) Cleve)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula exilis* Kützing)
Site: Terceira Island
Reference: Johansson 1977 (as *Anomoeoneis exilis* (Kütz.) Cleve)

***Brachysira liliana* Lange-Bertalot in Lange-Bertalot & Moser 1994, p. 41-42; pl. 10, fig. 1-12 [CAS ref. 006662]**

Distribution (Fig. 121):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Brachysira liliana* Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Brachysira liliana* Lange-Bertalot)

***Brachysira microcephala* (Kützing) Compère 1986, p. 26, 28; fig. 94 [CAS ref. 008136]**

Basionym: *Achnantheidium microcephalum* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Achnanthes microcephala* (Kützing) Cleve 1895 [CAS ref. 000949]

Synonym: *Brachysira neoexilis* Lange-Bertalot in Lange-Bertalot & Moser 1994 [CAS ref. 006662], according to Shayler & Siver 2004, p. 324

Distribution (Fig. 122):

REGION: NORTE

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Achnanthes microcephala*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Achnanthes microcephala*)

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Achnanthes microcephala*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Achnanthes microcephala*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Achnanthes microcephala*)

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Achnanthes microcephala* Kütz.)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Achnanthes microcephala* Kütz.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Achnanthes microcephala* Kütz.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Achnanthes microcephala* Kütz.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Achnanthes microcephala* (Kützing) Cleve)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Achnanthes microcephala*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Achnanthes microcephala*)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Achnanthes microcephala*);
Oliveira 1996 (as *Achnanthes microcephala*)

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Achnanthes microcephala* Kützing)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Achnanthes microcephala* Kz.)
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Achnanthes microcephala*)

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Achnanthes microcephala*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Achnanthes microcephala* Kütz.)
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Achnanthes microcephala*)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Achnanthes microcephala* Kütz.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Achnanthes microcephala*)

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
References: Oliveira 1976 (as *Achnanthes microcephala* Kütz.; Oliveira
1984a (as *Achnanthes microcephala*)
Municipality: Ferreira do Alentejo (District: Beja)

Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Achnanthes microcephala*)
Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Achnanthes microcephala*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
References: Oliveira 1984a (as *Achnanthes microcephala*); Oliveira 1987
(as *Achnanthes microcephala* Kz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
Reference: Manguin 1942 (as *Achnanthes microcephala* (Kütz.) Grun.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Mölder 1947 (as *Achnanthes microcephala* (Kütz.) Grun.)
Site: Lagoa das Sete Cidades
References: Mölder 1947 (as *Achnanthes microcephala* (Kütz.) Grun.);
Oliveira 1989 (as *Achnanthes microcephala*)
Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Achnantidium microcephalum* Ktz.)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Achnantidium microcephalum* Ktz.); Mölder
1947 (as *Achnanthes microcephala* (Kütz.) Grun.)
Site: Pico da Vara
Reference: Mölder 1947 (as *Achnanthes microcephala* (Kütz.) Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Achnanthes microcephala* (Kütz.) Grun.);
Bourrelly & Manguin 1946a (as *Achnanthes microcephala* (Kütz.) Grun.)
Site: Not Specified
Reference: Mölder 1947 (as *Achnanthes microcephala* (Kütz.) Grun.)

***Brachysira neoexilis* Lange-Bertalot in Lange-Bertalot & Moser
1994**, p. 51-54; pl. 5, fig. 1-35, pl. 6, fig. 1-6, pl. 17, fig. 7-11, pl. 32,
fig. 27-30, pl. 46, fig. 19-27 [CAS ref. 006662]

Synonym: *Brachysira microcephala* (Kützing) Compère 1986 [CAS ref. 008136],
according to Shayler & Siver 2004, p. 324

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Brachysira neoexilis* Lange-Bertalot)

***Brachysira procera* Lange-Bertalot & Gerd Moser 1994**, p. 55-57;
pl. 7, fig. 8-26, pl. 9, fig. 4-6, pl. 32, fig. 21-26 [CAS ref. 006662]

Distribution (Fig. 123):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Brachysira procera* Lange-Bertalot & Moser)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Brachysira procera* Lange-Bertalot & Moser)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Brachysira procera* Lange-Bertalot & Moser)

Site: Not Specified

Reference: Lange-Bertalot & Moser 1994 (as *Brachysira procera* Lange-Bertalot & Moser)

***Brachysira serians* (Brébisson) Round & D.G. Mann 1981**, p. 227
[CAS ref. 006882]

Basionym: *Frustulia serians* Brébisson 1838 [CAS ref. 000161]

Nomenclatural synonym: *Anomoeoneis serians* (Brébisson) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 124):

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Anomoeoneis serians* (Bréb.) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Anomoeoneis seriens*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Anomoeoneis seriens* (Bréb.) Cleve);

Bourrelly & Manguin 1946a (as *Anomoeoneis seriens* (Bréb.) Cleve);

Mölder 1947 (as *Anomoeoneis seriens* (Bréb.) Cleve)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Anomoeoneis seriens* (Bréb.) Cleve);

Bourrelly & Manguin 1946a (as *Anomoeoneis seriens* (Bréb.) Cleve)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Anomoeoneis seriens* (Bréb.) Cleve);

Bourrelly & Manguin 1946a (as *Anomoeoneis seriens* (Bréb.) Cleve)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Brachysira seriens* (Brébisson)

Round & Mann)

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Anomoeoneis serians* (Bréb.) Cleve);
Bourrelly & Manguin 1946a (as *Anomoeoneis serians* (Bréb.) Cleve)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Brachysira serians* (Brébisson)
Round & Mann)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Brachysira serians* (Brébisson)
Round & Mann)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Brachysira serians* (Brébisson)
Round & Mann)
Site: Not Specified
References: Bourrelly & Manguin 1946b (as *Anomoeoneis serians*);
Gonçalves 2008 (as *Brachysira serians* (Brébisson) Round & Mann)

***Brachysira spectabilis* (Manguin) Lange-Bertalot & Gerd Moser
1994, p. 65 [CAS ref. 006662]**

Basionym: *Anomoeoneis spectabilis* Manguin 1942 [CAS ref. 000623]

Distribution (Fig. 125):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Anomoeoneis spectabilis* Manguin);
Bourrelly & Manguin 1946a (as *Anomoeoneis spectabilis* Manguin)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Brachysira spectabilis* (Manguin)
Lange-Bertalot & Moser)

***Brachysira styriaca* (Grunow in Van Heurck) R. Ross in Hartley,
Ross & Williams 1986, p. 607 [CAS ref. 002355]**

Basionym: *Navicula styriaca* Grunow in Van Heurck 1880 [CAS ref. 000895]

Nomenclatural synonym: *Anomoeoneis styriaca* (Grunow in Van Heurck) Hustedt
1930 [CAS ref. 000502]

Distribution (Fig. 126):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified
Reference: Johansson 1977 (as *Anomoeoneis styrica* (Grun.) Hust.)
Municipality: Not Specified
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Brachysira styriaca* (Grunow) Ross)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Brachysira styriaca* (Grunow) Ross)
Site: Terceira Island
References: Johansson 1977 (as *Anomoeoneis styrica* (Grun.) Hust.);
Gonçalves et al. 2010 (as *Brachysira styriaca* (Grunow) Ross)
Site: Not Specified
Reference: Gonçalves 2008 (as *Brachysira styriaca* (Grunow) Ross)

***Brachysira vitrea* (Grunow) R. Ross in Hartley, Ross & Williams
1986, p. 607 [CAS ref. 002355]**

Basionym: *Gomphonema vitreum* Grunow 1878 [CAS ref. 000439]

Nomenclatural synonym: *Anomoeoneis vitrea* (Grunow) Ross in Patrick & Reimer
1966 [CAS ref. 003167]

Distribution (Fig. 127):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Anomoeoneis vitrea* (Grunow) Ross)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al.
1989-1990 (as *Anomoeoneis vitrea*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al.
1989-1990 (as *Anomoeoneis vitrea*); Almeida 1998 (as *Anomoeoneis
vitrea* (Grunow) Ross)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Anomoeoneis vitrea* (Grunow) Ross)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al.
1989-1990 (as *Anomoeoneis vitrea*)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al. 1989-1990 (as *Anomoeoneis vitrea*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Anomoeoneis vitrea*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis vitrea* (Grunow) Ross)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al. 1989-1990 (as *Anomoeoneis vitrea*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al. 1989-1990 (as *Anomoeoneis vitrea*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al. 1989-1990 (as *Anomoeoneis vitrea*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Anomoeoneis vitrea* (Grunow) Ross)
- Municipality: Anadia (District: Aveiro)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Anomoeoneis vitrea*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis vitrea* (Grunow) Ross)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis vitrea* (Grunow) Ross)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Anomoeoneis vitrea* (Grunow) Ross)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al. 1989-1990 (as *Anomoeoneis vitrea*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al. 1989-1990 (as *Anomoeoneis vitrea*)
- Municipality: Mealhada (District: Aveiro)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Anomoeoneis vitrea*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Anomoeoneis vitrea*)

- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Anomoeoneis vitrea*)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Anomoeoneis vitrea* (Grunow) Ross)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Anomoeoneis vitrea* (Grunow) Ross)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross); Gil et al. 1989-1990 (as *Anomoeoneis vitrea*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Anomoeoneis vitrea* (Grun.) Ross)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curreal
 Reference: Santos et al. 2002 (as *Anomoeoneis vitrea* (Grunow) Ross)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Anomoeoneis vitrea* (Grunow) Ross); Gil et al. 1991 (as *Anomoeoneis vitrea*)
- REGION: ALENTEJO
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Brachysira vitrea* Ross in Hartley)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Brachysira vitrea* Ross in Hartley)
 Municipality: Mértola (District: Beja)
 Site: Reservoir in the abandoned São Domingos mine
 Reference: Gerhardt et al. 2008 (as *Anomoeoneis vitrea* (Grunow) Ross)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Anomoeoneis vitrea* (Grunow) Ross)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Negro

Reference: Gonçalves 1996 (as *Anomoeoneis vitrea* (Grunow) Ross)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Brachysira vitrea* (Grunow) Ross)

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Brachysira vitrea* (Grunow) Ross)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Brachysira vitrea* (Grunow) Ross)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Brachysira vitrea* (Grunow) Ross)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Brachysira vitrea* (Grunow) Ross)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Brachysira vitrea* (Grunow) Ross)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Brachysira vitrea* (Grunow) Ross)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Anomoeoneis vitrea* (Grunow) Ross)

***Brachysira zellensis* (Grunow) Round & D.G. Mann 1981, p. 227**
[CAS ref. 006882]

Basionym: *Navicula zellensis* Grunow 1860 [CAS ref. 000427]

Nomenclatural synonym: *Anomoeoneis brachysira* var. *zellensis* (Grunow)
Krammer in Krammer & Lange-Bertalot 1986 [CAS ref. 006519]

Distribution (Fig. 128):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Anomoeoneis brachysira* (Breb.) Grunow var. *zellensis* (Grunow) Krammer); Ferreira da Silva et al. 2009 (as *Anomoeoneis brachysira* (Breb.) Grunow var. *zellensis* (Grunow) Krammer)

***Caloneis* Cleve 1894, p. 46**
[CAS ref. 000232]

***Caloneis alpestris* (Grunow) Cleve 1894, p. 53 [CAS ref. 000232]**

Basionym: *Navicula alpestris* Grunow 1860 [CAS ref. 000427]

Distribution:

REGION: NORTE

Subregion: Not Specified

▲ Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Caloneis alpestris* (Grun.) Cleve)

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(Portugal)

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***Caloneis amphisbaena* (Bory) Cleve 1894, p. 58 [CAS ref. 000232]**

Basionym: *Navicula amphisbaena* Bory 1824 [CAS ref. 000147]

Distribution (Fig. 129):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Vilarinho

Reference: Zimmermann 1910 (as *Navicula amphisbaena* Bory)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis amphisbaena*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis amphisbaena*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis amphisbaena*)

- Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Caloneis amphisbaena* (Bory) Cleve)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Caloneis amphisbaena* (Bory) Cleve)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Caloneis amphisbaena*); Almeida 1998 (as *Caloneis amphisbaena* (Bory) Cleve)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Caloneis amphisbaena*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Caloneis amphisbaena* (Bory) Cleve)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Caloneis amphisbaena* (Bory) Cleve)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Brito & Andrade 1992 (as *Navicula amphisbaena* (?))
- REGION: ALENTEJO**
- Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Calloneis amphisbaena* (Bory) Cleve)
- Subregion: Alto Alentejo
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Caloneis amphisbaena*)
- Subregion: Lezíria do Tejo
 Municipality: Alpiarça (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Caloneis amphisbaena* (Bory) Cleve, fossil)
- REGION: AUTONOMOUS REGION OF AZORES**
- Municipality: Povoação (São Miguel Island)
 Site: Tambores, Furnas
 Reference: Chaves 1908 (as *Navicula amphisbaena*, fossil)
 Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Navicula amphisbaena*, fossil)
- Municipality: Not Specified
 Site: Not Specified
 Reference: Gonçalves et al. 2010 (as *Caloneis amphisbaena* (Bory) Cleve, fossil)

***Caloneis bacillum* (Grunow) Cleve 1894**, p. 99 [CAS ref. 000231]

Basionym: *Stauroneis bacillum* Grunow 1863 [CAS ref. 000429]

Distribution (Fig. 130):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Caloneis bacillum* (Grunow) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve); Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis bacillum*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

References: Nunes 2007 (as *Caloneis bacillum* (Grunow) Cleve); Ferreira da Silva et al. 2009 (as *Caloneis bacillum* (Grunow) Cleve)

- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Caloneis bacillum*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Caloneis bacillum*)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Caloneis bacillum*)
- Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Caloneis bacillum*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Caloneis bacillum*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Caloneis bacillum*); Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
- Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Caloneis bacillum*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Caloneis bacillum*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Caloneis bacillum* (Grun.) Cleve); Gil et al. 1991 (as *Caloneis bacillum*); Feio et al. 2007 (as *Caloneis bacillum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Ribeira Quente
References: Manguin 1942 (as *Caloneis bacillum* (Grun.) Cleve); Bourrelly & Manguin 1946a (as *Caloneis bacillum* (Grun.) Cleve)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Caloneis bacillum* (Grun.) Cleve); Bourrelly & Manguin 1946a (as *Caloneis bacillum* (Grun.) Cleve)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Caloneis bacillum* (Grunow) Cleve)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Caloneis bacillum* (Grunow) Cleve)
Site: Not Specified
Reference: Gonçalves 2008 (as *Caloneis bacillum* (Grunow) Cleve)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Caloneis bacillum* (Grunow) Cleve)

***Caloneis bacillum* var. *fontinalis* (Grunow in Van Heurck) Cleve 1894, p. 99 [CAS ref. 000231]**

Basionym: *Navicula bacillaris* var. *fontinalis* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 131):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow); Gil et al. 1989-1990 (as *Caloneis bacillum* v. *fontinalis*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow); Gil et al. 1989-1990 (as *Caloneis bacillum* v. *fontinalis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)

Site: São João da Azenha, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Caloneis bacillum* v. *fontinalis* Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow); Gil et al. 1989-1990 (as *Caloneis bacillum* v. *fontinalis*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Caloneis bacillum* (Grunow) Cleve var. *fontinalis* Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Caloneis bacillum* v. *fontinalis*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow); Gil et al. 1989-1990 (as *Caloneis bacillum* v. *fontinalis*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Caloneis bacillum* v. *fontinalis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Caloneis bacillum* (Grun.) P. Cleve v. *fontinalis* Grunow)

***Caloneis branderii* (Hustedt) Krammer in Krammer & Lange-Bertalot 1985**, p. 17-18; pl. 10, fig. 6, 7 [CAS ref. 006263]

Basionym: *Stauroneis branderi* Hustedt 1959a [CAS ref. 000535]

Distribution (Fig. 132):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Stauroneis branderii* Hustedt)

***Caloneis clevei* f. *inaequalis* Manguin 1942**, p. 135; pl. 2, fig. 30 [CAS ref. 000623] as *Caloneis clevei* var. *undulata* f. *inaequalis*

Distribution (Fig. 133):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Caloneis clevei* v. *undulata* cfr. fo. *inaequalis* Mang.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Caloneis clevei* (Lgst.) Cleve var. *undulata* Krasske fo. *inaequalis*); Bourrelly & Manguin 1946a (as *Caloneis clevei* (Lgst.) Cleve var. *undulata* Krasske fo. *inaequalis*)

***Caloneis dubia* Krammer in Lange-Bertalot & Krammer 1987**, p. 112 [CAS ref. 006173]

Basionym: *Navicula sublinearis* Grunow in Van Heurck 1885 [CAS ref. 001040]

Nomenclatural synonyms: *Pinnularia sublinearis* (Grunow in Van Heurck) Cleve 1895 [CAS ref. 000949]

Caloneis sublinearis (Grunow) Krammer in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]

Formatada: Inglês Unido

Distribution (Fig. 134):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

References: Johansson 1977 (as *Pinnularia sublinearis* Grun.); Gonçalves et al. 2010 (as *Caloneis dubia* Krammer)

***Caloneis fontinalis* (Grunow) Lange-Bertalot & E. Reichardt in Lange-Bertalot & Metzeltin 1996, v. 2: p. 29; pl. 87, fig. 14-15 [CAS ref. 007048]**

Basionym: *Navicula fontinalis* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 135):

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula fontinalis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Navicula fontinalis* Grun.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Caloneis fontinalis* (Grunow) Lange-Bertalot & Reichardt)

***Caloneis hyalina* Hustedt 1937a, p. 281-282; pl. 15, fig. 8-10 [CAS ref. 001012]**

Distribution (Fig. 136):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Caloneis hyalina*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Caloneis hyalina* Hustedt)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Caloneis hyalina* Hustedt)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Caloneis hyalina* Hust.); Bourrelly & Manguin 1946a (as *Caloneis hyalina* Hust.)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Caloneis hyalina* Hustedt)
Site: Not Specified
References: Bourrelly & Manguin 1946b (as *Caloneis hyalina*); Gonçalves 2008 (as *Caloneis hyalina* Hustedt)

***Caloneis lagerstedtii* (Lagerstedt) Cholnoky 1957**, p. 43; fig. 17-20
[CAS ref. 000203]

Nomenclatural synonyms: *Navicula fasciata* Lagerstedt 1873 [CAS ref. 000597]
Caloneis fasciata (Lagerstedt) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 137):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula fasciata* Lag.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Caloneis fasciata* (Lagerstedt) Cleve)

***Caloneis lepidula* (Grunow in Van Heurck) Cleve 1894**, p. 50 [CAS ref. 000232]

Basionym: *Navicula lepidula* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 138):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Guarda

References: Zimmermann 1910 (as *Navicula lepidula* Grun.); Carvalho 1913 (as *Navicula lepidula* Grun.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Navicula lepidula* Grun.)

***Caloneis leptosoma* (Grunow) Krammer in Krammer & Lange-Bertalot 1985, p. 18-19 [CAS ref. 006263]**

Basionym: *Navicula leptosoma* Grunow in Van Heurck 1880 [CAS ref. 000895]

Nomenclatural synonym: *Pinnularia leptosoma* (Grunow in Van Heurck) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 139):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Pinnularia leptosoma* Grun.)

Municipality: Not Specified

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Caloneis leptosoma* (Grunow) Krammer)

***Caloneis molaris* (Grunow) Krammer in Krammer & Lange-Bertalot 1985, p. 18; pl. 10, fig. 9 [CAS ref. 006263]**

Basionym: *Navicula molaris* Grunow 1863 [CAS ref. 000429]

Nomenclatural synonym: *Pinnularia molaris* (Grunow) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 140):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Caloneis molaris* (Grunow) Krammer)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Caloneis molaris* (Grunow) Krammer)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Caloneis molaris* (Grunow) Krammer)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

References: Silva 1946a (as *Pinnularia molaris* Grun., fossil); Silva 1946b (as *Pinnularia molaris* Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia molaris* Grun.)

Municipality: Corvo (Corvo Island)

Site: Not Specified

Reference: Mölder 1947 (as *Pinnularia molaris* Grun.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Pinnularia molaris* Grun.)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Pinnularia molaris* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Pinnularia molaris* Grun.)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Caloneis molaris* (Grunow) Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Caloneis molaris* (Grunow) Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Caloneis molaris* (Grunow) Krammer)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Caloneis molaris* (Grunow) Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Caloneis molaris* (Grunow) Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Caloneis molaris* (Grunow) Krammer)

***Caloneis permagna* (J.W. Bailey) Cleve 1894**, p. 59 [CAS ref. 000232]

Basionym: *Pinnularia permagna* J.W. Bailey 1851 [CAS ref. 000119]

Distribution (Fig. 141):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Caloneis permagna*)

***Caloneis pulchra* Messikommer 1927 [CAS ref. 001385]**

Distribution (Fig. 142):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Caloneis pulchra* Messik., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Caloneis* cf. *pulchra* Messikommer)

***Caloneis schumanniana* (Grunow in Van Heurck) Cleve 1894, p. 53 [CAS ref. 000232]**

Basionym: *Navicula schumanniana* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 143):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Caloneis schumanniana* (Grunow) Cleve)
Site: Not Specified
Reference: Gonçalves 2008 (as *Caloneis schumanniana* (Grunow) Cleve)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Almeida 1998 (as *Caloneis schumanniana* (Grunow) Cleve);
INAG I.P. 2008 (as *Caloneis schumanniana* (Grunow) Cleve)

***Caloneis silicula* (Ehrenberg) Cleve 1894**, p. 51 [CAS ref. 000232]

Basionym: *Navicula silicula* Ehrenberg 1839a [CAS ref. 000289]

Synonym: *Caloneis ventricosa* (Ehrenberg) F. Meister 1912 [CAS ref. 000642], according to Krammer & Lange-Bertalot 1986, p. 388

Distribution (Fig. 144):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Caloneis silicula*)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Caloneis silicula* (Ehr.) Cleve)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis silicula* (Ehr.) Cleve)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis silicula*)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis silicula*)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis silicula* (Ehr.) Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis silicula* (Ehr.) Cleve)

Municipality: Mealhada (District: Aveiro)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis silicula*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Caloneis silicula*); Almeida 1998 (as
Caloneis silicula (Ehrenberg) Cleve)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Caloneis silicula*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Caloneis silicula* (Ehrenberg) Cleve)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Caloneis silicula*)
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Caloneis silicula* (Ehr.) Cleve)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Caloneis silicula*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Caloneis silicula*)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Caloneis silicula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

Reference: Bourrelly & Manguin 1946a (as *Caloneis silicula* (Ehr.)
Cleve)

Site: Lagoinha, Fajãzinha

Reference: Manguin 1942 (as *Caloneis silicula* (Ehr.) Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Caloneis silicula*)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Manguin 1942 (as *Caloneis silicula* (Ehr.) Cleve); Bourrelly & Manguin 1946a (as *Caloneis silicula* (Ehr.) Cleve); Mölder 1947 (as *Caloneis silicula* (Ehr.) Cleve); Gonçalves 1997 (as *Caloneis silicula*)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Caloneis silicula* (Ehr.) Cleve); Bourrelly & Manguin 1946a (as *Caloneis silicula* (Ehr.) Cleve)
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Caloneis silicula* (Ehrenberg) Cleve)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Caloneis silicula* (Ehrenberg) Cleve)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Caloneis silicula* (Ehrenberg) Cleve)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Caloneis silicula* (Ehr.) Cleve)

***Caloneis silicula* f. *alpina* (Cleve) Krammer in Krammer & Lange-Bertalot 1985, p. 22 [CAS ref. 006263]**

Basionym: *Caloneis silicula* var. *alpina* Cleve 1894 [CAS ref. 000232]

Nomenclatural synonym: *Navicula limosa* var. *alpina* (Cleve) Peragallo 1903 [CAS ref. 001463]

Distribution (Fig. 145):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula limosa* Ktz. var. *alpina* Ktz.)

***Caloneis silicula* var. *genuina* (Cleve) Ant. Mayer 1941, p. 129; pl. 1, fig. 7 [CAS ref. 001376]**

Basionym: *Caloneis silicula* var. *genuina* Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 146):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Caloneis silicula* (Ehr.) Cl. var. *genuina* Cl.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Caloneis silicula* (Ehr.) Cl. var. *genuina* Cl.)

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Caloneis silicula* (Ehr.) Cl. var. *genuina* Cl.)

***Caloneis silicula* var. *gibberula* (Kützing) Cleve-Euler 1932, p. 132; fig. 371 [CAS ref. 000248]**

Basionym: *Navicula gibberula* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Navicula limosa* var. *gibberula* (Kützing) Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 147):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis silicula* var. *gibberula*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Caloneis silicula* var. *gibberula*)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Navicula limosa* Kuetz. var. *gibberula*)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula limosa* Kuetz. var. *gibberula*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Caloneis silicula* var. *gibberula*)

***Caloneis silicula* var. *limosa* (Kützing) VanLandingham 1968**, p. 619 [CAS ref. 006294]

Basionym: *Navicula limosa* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 148):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Torre, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Navicula limosa* Kuetz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula limosa* Ktz.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Navicula limosa* Ktz., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula limosa* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Navicula limosa* Kuetz.)

Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream

Reference: Zimmermann 1910-1911 (as *Navicula limosa* Kuetz.)

Municipality: Ribeira Brava (Madeira Island)

Site: Sítio da Chamorra, Campanário

Reference: Zimmermann 1909a (as *Navicula limosa* Kuetz.)

***Caloneis tenuis* (Gregory) Krammer in Krammer & Lange-Bertalot 1985**, p. 17; pl. 10, fig. 5 [CAS ref. 006263]

Basionym: *Pinnularia tenuis* Gregory 1854 [CAS ref. 000393]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Caloneis tenuis* (Gregory) Krammer, fossil)

***Caloneis thermalis* (Grunow) Krammer in Krammer & Lange-Bertalot 1985, p. 22-23 [CAS ref. 006263]**

Basionym: *Navicula bacillaris* var. *thermalis* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 149):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Navicula bacillaris* var. *thermalis* Greg.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Caloneis thermalis* (Grunow) Krammer)

***Caloneis undosa* Krammer in Lange-Bertalot & Krammer 1987, p. 114 [CAS ref. 006173]**

Distribution (Fig. 150):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Caloneis undosa* Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Caloneis undosa* Krammer)

***Caloneis undulatiformis* Lange-Bertalot & E. Reichardt in Rumrich, Lange-Bertalot & Rumrich 2000, p. 100 [CAS ref. 009156]**

Distribution (Fig. 151):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Caloneis undulatiformis* Lange-Bertalot & Reichardt)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Caloneis undulatiformis* Lange-Bertalot & Reichardt)

***Caloneis ventricosa* (Ehrenberg) F. Meister 1912**, p. 116; pl. 17, fig. 4 [CAS ref. 000642]

Basionym: *Navicula ventricosa* Ehrenberg 1830 [CAS ref. 001999]

Synonym: *Caloneis silicula* (Ehrenberg) Cleve 1894 [CAS ref. 000232], according to Krammer & Lange-Bertalot 1986, p. 388

Distribution (Fig. 152):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Caloneis ventricosa* (Ehr.) Meister)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Caloneis ventricosa* (Ehrenberg) Meister)

***Caloneis* sp.**

Distribution (Fig. 153):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Caloneis* sp.)

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Caloneis* sp.)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Caloneis* sp.)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Caloneis* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Caloneis* sp.)

***Campylodiscus Ehrenberg ex Kützing 1844*, p. 59**
[CAS ref. 000595]

***Campylodiscus costatus* W. Smith 1851**, p. 6; pl. 1, fig. 1a [CAS ref. 001528]

Distribution (Fig. 154):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Campylodiscus costatus* Sm.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Campylodiscus costatus* Smith)

***Campylodiscus hibernicus* Ehrenberg 1845b**, p. 154 [CAS ref. 000956]

Distribution (Fig. 155):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Campylodiscus hibernicus* Ehr.)
Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Campylodiscus hibernicus* Ehr.)
Municipality: Not Specified
Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Campylodiscus hibernicus* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Campylodiscus hibernicus* Ehr.)

Site: Sítio da Pena

Reference: Zimmermann 1909a (as *Campylodiscus hibernicus* Ehr.)

***Campylodiscus noricus* Ehrenberg ex Kützing 1844**, p. 59 [CAS ref. 000595]

Distribution (Fig. 156):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Campylodiscus noricus*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Campylodiscus noricus*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Campylodiscus noricus* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Campylodiscus noricus* Ehr.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Campylodiscus noricus* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Campylodiscus noricus* Ehr.)

***Campylosira* Grunow ex Van Heurck 1881**, p. 157
[CAS ref. 001040]

***Campylosira cymbelliformis* (A.W.F. Schmidt) Grunow in Van Heurck 1881**, pl. 45, fig. 43 [CAS ref. 001035]

Basionym: *Synedra cymbelliformis* A.W.F. Schmidt 1874 [CAS ref. 000806]

Distribution (Fig. 157):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

References: Silva 1945 (as *Campylosira cymbelliformis* (A. Schmidt) Grun., fossil); Silva 1946b (as *Campylosira cymbelliformis* (A. Schm.) Grun., fossil)

Capartogramma Kufferath 1956, pg. 27
[CAS ref. 001326]

***Capartogramma crucicula* (Grunow ex Cleve) Ross 1963**, p. 59;
1/B, 2/A, fig. 1a, 8-11 [CAS ref. 000797]

Basionym: *Schizostauron crucicula* Grunow 1881 [CAS ref. 000222]

Distribution (Fig. 158):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Schizostauron crucicula* (Grun. & Cleve) Ross)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Schizostauron crucicula* (Grun. & Cleve) Ross)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Schizostauron crucicula* (Grun. & Cleve) Ross)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Schizostauron crucicula*)

Formatada: Portugal
(Portugal)

***Cavinula* D.G. Mann & Stickle in Round, Crawford & Mann 1990, p. 665 [CAS ref. 003245]**

***Cavinula cocconeiformis* (W. Gregory ex Greville) D.G. Mann & Stickle in Round, Crawford & Mann 1990, p. 665 [CAS ref. 003245]**

Basionym: *Navicula cocconeiformis* W. Gregory ex Greville 1855 [CAS ref. 001238]

Distribution (Fig. 159):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula cocconeiformis* Gregory); Gil et al. 1989-1990 (as *Navicula cocconeiformis*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula cocconeiformis* Gregory); Gil et al. 1989-1990 (as *Navicula cocconeiformis*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cocconeiformis*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cocconeiformis*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Navicula cocconeiformis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cocconeiformis* Gregory)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Navicula cocconeiformis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 References: Manguin 1942 (as *Navicula cocconeiformis* Greg.); Bourrelly & Manguin 1946a (as *Navicula cocconeiformis* Greg.)
 Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Cavinula cocconeiformis* (Gregory ex Greville) Mann & Stickle)
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Cavinula cocconeiformis* (Gregory ex Greville) Mann & Stickle)

***Cavinula jaernefeltii* (Hustedt) D.G. Mann & Stickle 1990**, p. 665
 [CAS ref. 003245]

Basionym: *Navicula jaernefeltii* Hustedt 1942 [CAS ref. 000516]

Distribution (Fig. 160):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cavinula jaernefeltii* (Hustedt) Mann & Stickle)

Site: Not Specified

Reference: Gonçalves 2008 (as *Cavinula* cf. *jaernefeltii* (Hustedt) Mann & Stickle)

***Cavinula lacustris* (W. Gregory) D.G. Mann & Stickle in Round, Crawford & Mann 1990, p. 665 [CAS ref. 003245]**

Basionym: *Navicula lacustris* W. Gregory 1856 [CAS ref. 000397]

Distribution (Fig. 161):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Navicula lacustris* Greg., fossil)

***Cavinula lapidosa* (Krasske) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996, v. 2: p. 30-31; pl. 24, fig. 17a, b [CAS ref. 007048]**

Basionym: *Navicula lapidosa* Krasske 1929 [CAS ref. 000582]

Distribution (Fig. 162):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula lapidosa*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Cavinula lapidosa* (Krasske) Lange-Bertalot)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Cavinula lapidosa* (Krasske) Lange-Bertalot)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Cavinula lapidosa* (Krasske) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cavinula lapidosa* (Krasske) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Cavinula lapidosa* (Krasske) Lange-Bertalot)

***Cavinula scutiformis* (Grunow ex A.W.F. Schmidt) D.G. Mann & Stickle in Round, Crawford & Mann 1990, p. 665 [CAS ref. 003245]**

Basionym: *Navicula scutiformis* Grunow in Schmidt 1881 [CAS ref. 012454]

Distribution (Fig. 163):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Navicula scutiformis* Grun., fossil)

***Cavinula variostriata* (Krasske) D.G. Mann in Round, Crawford & Mann 1990, p. 665 [CAS ref. 003245]**

Basionym: *Navicula variostriata* Krasske 1923a [CAS ref. 000579]

Distribution (Fig. 164):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Navicula variostriata* Krasske)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula variostriata* Krasske)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula variostriata* Krasske)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula variostriata* Krasske)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Navicula variostrata* Krasske)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Navicula variostrata* Krasske); Bourrelly & Manguin 1946a (as *Navicula variostrata* Krasske)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Cavinula variostrata* (Krasske) Mann & Stickle)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cavinula variostrata* (Krasske) Mann & Stickle)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Cavinula variostrata* (Krasske) Mann & Stickle)

Site: Not Specified

Reference: Gonçalves 2008 (as *Cavinula cf. variostrata* (Krasske) Mann & Stickle)

***Cerataulus Ehrenberg 1843b*, p. 270**

[CAS ref. 001182]

***Cerataulus thermalis* (Meneghini) Ralfs in Pritchard 1861**, p. 847

[CAS ref. 001063]

Basionym: *Pleurosira thermalis* Meneghini 1853 [CAS ref. 001379]

Distribution (Fig. 165):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Caminho do Meio

Reference: Zimmermann 1909a (as *Cerataulus thermalis* (Menegh.) Ralfs.)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Cerataulus thermalis* (Menegh.) Ralfs.)

Site: Sítio da Pena

- Reference: Zimmermann 1909a (as *Cerataulus thermalis* (Menegh.) Ralfs.)
Municipality: Porto Santo (Porto Santo Island)
Site: Ponte do Espírito Santo
Reference: Zimmermann 1910-1911 (as *Cerataulus thermalis* (Menegh.) Ralfs.)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Cerataulus thermalis* (Menegh.) Ralfs.)
Site: Porto Santo
Reference: Zimmermann 1910-1911 (as *Cerataulus thermalis* (Menegh.) Ralfs.)
Municipality: Santa Cruz (Madeira Island)
Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Cerataulus thermalis* (Menegh.) Ralfs.)
Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Cerataulus thermalis* (Menegh.) Ralfs.)
Municipality: Porto Santo (Porto Santo Island)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Cerataulus thermalis* (Menegh.) Ralfs.)

***Ceratoneis* Ehrenberg 1839b, p. 157**
[CAS ref. 000291]

***Ceratoneis arcus* var. *amphioxys* (Rabenhorst) Brun 1880, p. 52; pl. 2, fig. 28 [CAS ref. 000174]**

Basionym: *Ceratoneis amphioxys* Rabenhorst 1853 [CAS ref. 000772]

Formatada: Portug
(Portugal)

Synonyms: *Fragilaria arcus* (Ehrenberg) Cleve 1898 [CAS ref. 000235], according to Krammer & Lange-Bertalot 1991a, p. 134
Ceratoneis arcus var. *linearis* Holmboe 1899 [CAS ref. 011659], according to Krammer & Lange-Bertalot 1991a, p. 134

Distribution (Fig. 166):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *amphioxys* (Rabh.) Brun)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Ceratoneis arcus* v. *amphioxys*)

***Ceratoneis arcus* f. *arcuata* C. Zimmermann 1915a**, p. 36; pl. 4, fig. 11 [CAS ref. 003139]

Distribution (Fig. 167):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel
Reference: Zimmermann 1915a (as *Ceratoneis arcus* f. *arcuata* Zimmermann)

***Ceratoneis arcus* var. *linearis* Holmboe 1899**, p. 30 [CAS ref. 011659]

Synonyms: *Ceratoneis arcus* var. *amphioxys* (Rabenhorst) Brun 1880 [CAS ref. 000174], according to Krammer & Lange-Bertalot 1991a, p. 134
Fragilaria arcus (Ehrenberg) Cleve 1898 [CAS ref. 000235], according to Krammer & Lange-Bertalot 1991a, p. 134

Distribution (Fig. 168):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

Formatada: Portug
(Portugal)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing v. *linearis* Holmboe)

***Ceratoneis arcus f. semirecta* C. Zimmermann 1915a**, p. 36; pl. 4, fig. 12 [CAS ref. 003139]

Distribution (Fig. 169):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel

Reference: Zimmermann 1915a (as *Ceratoneis arcus f. semirecta* Zimmermann)

***Ceratoneis arcus f. trigibba* C. Zimmermann 1915a**, p. 36; pl. 4, fig. 10 [CAS ref. 003139]

Distribution (Fig. 170):

Formatada: Portug
(Portugal)

Formatada: Portug
(Portugal)

Formatada: Portug
(Portugal)

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel
Reference: Zimmermann 1915a (as *Ceratoneis arcus* f. *trigibba*
Zimmermann)

***Chamaepinnularia* Lange-Bertalot & Krammer in
Lange-Bertalot & Metzeltin 1996, p. 32
[CAS ref. 007048]**

***Chamaepinnularia begeri* (Krasske) Lange-Bertalot in Lange-
Bertalot & Metzeltin 1996, p. 33 [CAS ref. 007048]**

Basionym: *Navicula begeri* Krasske 1932 [CAS ref. 000583]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Chamaepinnularia begeri* (Krasske)
Lange-Bertalot, fossil)

***Chamaepinnularia evanida* (Hustedt) Lange-Bertalot in Lange-
Bertalot & Metzeltin 1996, v. 2: p. 34 [CAS ref. 007048]**

Basionym: *Navicula evanida* Hustedt 1942a [CAS ref. 000517]

Distribution (Fig. 171):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula evanida* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia evanida* (Hustedt) Lange-Bertalot)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia evanida* (Hustedt) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia evanida* (Hustedt) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula evanida* Hustedt)

***Chamaepinnularia hassiaca* (Krasske) Cantonati & Lange-Bertalot 2009**, p. 228 [CAS ref. 013190]

Basionym: *Navicula hassiaca* Krasske 1925 [CAS ref. 000580]

Nomenclatural synonym: *Chamaepinnularia soehrensii* var. *hassica* (Krasske) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996 [CAS ref. 007048]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Chamaepinnularia soehrensii* var. *hassica* (Krasske) Lange-Bertalot & Krammer)

***Chamaepinnularia mediocris* (Krasske) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 35; pl. 28, fig. 48-51 [CAS ref. 007048]

Basionym: *Navicula mediocris* Krasske 1932 [CAS ref. 000583]

Distribution (Fig. 172):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mediocris*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mediocris* Krasske)
- REGION: AUTONOMOUS REGION OF AZORES**
 Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Falca (Terceira Island)
 Reference: Gonçalves 1996 (as *Navicula mediocris* Krasske)
 Site: Lagoa da Joaninha
 Reference: Gonçalves 1996 (as *Navicula mediocris* Krasske)

- Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Navicula mediocris* Krasske); Bourrelly & Manguin 1946a (as *Navicula mediocris* Krasske)
- Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Navicula mediocris* Krasske); Bourrelly & Manguin 1946a (as *Navicula mediocris* Krasske)
- Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Navicula mediocris* Krasske)
- Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Navicula mediocris* Krasske); Bourrelly & Manguin 1946a (as *Navicula mediocris* Krasske)
- Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Chamaepinnularia mediocris* (Krasske) Lange-Bertalot)
- Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Chamaepinnularia mediocris* (Krasske) Lange-Bertalot)
- Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Navicula mediocris* Krasske); Bourrelly & Manguin 1946a (as *Navicula mediocris* Krasske)
- Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Chamaepinnularia mediocris* (Krasske) Lange-Bertalot)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Chamaepinnularia mediocris* (Krasske) Lange-Bertalot)
- Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Chamaepinnularia mediocris* (Krasske) Lange-Bertalot)
- Site: Not Specified
Reference: Gonçalves 2008 (as *Chamaepinnularia mediocris* (Krasske) Lange-Bertalot)

***Chamaepinnularia soehrensii* (Krasske) Lange-Bertalot & Krammer in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 36; pl. 28, fig. 52-55 [CAS ref. 007048]

Basionym: *Navicula soehrensii* (*soehrensii*) Krasske 1923a [CAS ref. 000579]

Distribution (Fig. 173):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula soehrensis* Krasske)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Navicula soehrensis* Krasske)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia soehrensis* (Krasske) Lange-Bertalot & Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia soehrensis* (Krasske) Lange-Bertalot & Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Chamaepinnularia soehrensis* (Krasske) Lange-Bertalot & Krammer)

***Chamaepinnularia soehrensii* var. *musciicola* (J.B. Petersen)
Lange-Bertalot & Krammer in Lange-Bertalot & Metzeltin 1996,
v. 2: p. 37 [CAS ref. 007048]**

Basionym: *Pinnularia musciicola* J.B. Petersen 1928 [CAS ref. 000742]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Chamaepinnularia soehrensii* var.
musciicola (Petersen) Lange-Bertalot & Krammer)

***Chamaepinnularia submusciicola* (Kraske) Lange-Bertalot in
Moser, Lange-Bertalot & Metzeltin 1998, p. 27; pl. 3, fig. 1-4 [CAS
ref. 007020]**

Basionym: *Navicula submusciicola* Kraske 1939 [CAS ref. 000587]

Distribution (Fig. 174):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia submusciicola*
(Kraske) Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia submusciicola*
(Kraske) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Chamaepinnularia submusciicola*
(Kraske) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Chamaepinnularia submusciicola*
(Kraske) Lange-Bertalot)

***Chaetoceros* Ehrenberg 1844b, p. 198
[CAS ref. 001184]**

***Chaetoceros* sp.**

Distribution (Fig. 175):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Ferreira do Alentejo (District: Beja)

Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Chaetoceros* sp.)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Chaetoceros* sp.)

***Cocconeis* Ehrenberg 1837c, p. 173**
[CAS ref. 000285]

***Cocconeis decussata* Ehrenberg 1843a, p. 123 (411); pl. 2, fig. 6/13**
[CAS ref. 000294]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Cocconeis decussata*)

***Cocconeis disculus* (Schumann) Cleve 1895, p. 172 [CAS ref. 000949]**

Basionym: *Navicula disculus* Schumann 1862 [CAS ref. 000813]

Distribution (Fig. 176):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)
Site: Varzuelas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis disculus* (Schum.) P. Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Cocconeis disculus* (Schumann) Cleve)

***Cocconeis euglypta* Ehrenberg 1854a**, pl. 34, fig. 6A, fig. 2 [CAS ref. 000966]

Nomenclatural synonym: *Cocconeis placentula* var. *euglypta* (Ehrenberg) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 177):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Cocconeis placentula* var. *euglypta* (Ehrenberg) Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Cocconeis placentula* v. *euglypta*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Cocconeis placentula* v. *euglypta*)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula* v. *euglypta*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Cocconeis placentula* v. *euglypta*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula* v. *euglypta*)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula* v. *euglypta*)

Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula* v. *euglypta*)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula* v. *euglypta*)

Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Cocconeis placentula* v. *euglypta* (Ehr.) Cleve)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)

Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula* v. *euglypta*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula* v. *euglypta*)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)

- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Cocconeis placentula* v. *euglypta*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Cocconeis placentula* v. *euglypta*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis placentula* v. *euglypta* (Ehr.) P. Cleve)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Cocconeis placentula euglypta*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Cocconeis placentula euglypta*)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Cocconeis placentula* var. *euglypta* Ehrenberg)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Gil et al. 1991 (as *Cocconeis placentula* v. *euglypta*); Almeida 1998 (as *Cocconeis placentula* Ehrenberg var. *euglypta* (Ehrenberg) Grunow)
- REGION: AUTONOMOUS REGION OF AZORES**
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
Reference: Bourrelly & Manguin 1946a (as *Cocconeis placentula* Ehr. var. *euglypta* (Ehr.) Cleve)
- Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Cocconeis euglypta* Ehrenberg)
Site: São Jorge Island
References: Johansson 1977 (as *Cocconeis placentula* v. *euglypta* (Ehr.) Cleve); Gonçalves et al. 2010 (as *Cocconeis euglypta* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Cocconeis placentula* Ehr. var. *euglypta* (Ehr.) Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehr. var. *euglypta* (Ehr.) Cleve)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehr. var. *euglypta* (Ehr.) Cleve)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cocconeis placentula* Ehrenberg var. *euglypta* (Ehr.) Grunow)

***Cocconeis lineata* Ehrenberg 1854a**, p. 8; pl. 6/1, fig. 40; pl. 39/II, fig. 11 [CAS ref. 000966]

Nomenclatural synonyms: *Cocconeis placentula* var. *lineata* (Ehrenberg) Van Heurck 1885 [CAS ref. 001040]

Cocconeis placentula var. *lineata* (Ehrenberg) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 178):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Cocconeis placentula* var. *lineata* (Ehrenberg) Van Heurck)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cocconeis placentula* var. *lineata* (Ehr.) Van Heurck)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cocconeis placentula* var. *lineata* (Ehr.) Van Heurck)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg var. *lineata* (Ehrenberg) Van Heurck)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cocconeis placentula* Ehr. v. *lineata* (Ehr.) P. Cleve)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cocconeis placentula lineata*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cocconeis placentula lineata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Cocconeis lineata*, fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Cocconeis placentula* Ehr. var. *lineata* (Ehr.) V. H.)

Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream

Reference: Zimmermann 1910-1911 (as *Cocconeis placentula* Ehr. var. *lineata* (Ehr.) V. H.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *lineata* (Ehr.) Van Heurck)

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *lineata* (Ehr.) Van Heurck)

Site: Rivers in the North

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *lineata* (Ehr.) Van Heurck)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *lineata* (Ehr.) Van Heurck)

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Cocconeis lineata*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cocconeis placentula* Ehrenberg var. *lineata* (Ehr.) Van Heurck)

***Cocconeis molesta* Kützing 1844**, p. 71; pl. 5/7, fig. 1, 2 [CAS ref. 000595]

Distribution (Fig. 179):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Cocconeis molesta* Kütz., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cocconeis molesta* Kütz., fossil)

***Cocconeis molesta* var. *amygdalina* (Brébisson ex Van Heurck)
Cleve in Schmidt 1894, pl. 193, fig. 48 [CAS ref. 012475]**

Basionym: *Cocconeis diaphana* var. *amygdalina* Brébisson ex Van Heurck 1880
[CAS ref. 000895]

Distribution (Fig. 180):

REGION: NORTE
Subregion: Grande Porto
Municipality: Maia (District: Porto)
Site: Parada
Reference: Silva 1950b (as *Cocconeis molesta* Kütz. var. *amygdalina*
(Bréb.) Grun.)

***Cocconeis neodiminuta* Krammer 1990, p. 151; fig. 1, 2 part, 8-20,
40-45 [CAS ref. 006321]**

Distribution (Fig. 181):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Cocconeis neodiminuta* Krammer)

***Cocconeis pediculus* Ehrenberg 1838, p. 194; pl. 21, fig. 11 [CAS
ref. 000288]**

Distribution (Fig. 182):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
References: De Toni 1887 (as *Cocconeis pediculus* Ehrenb.);
Zimmermann 1914 (as *Cocconeis pediculus* Ehr.)
Site: Not Specified

Reference: Colmeiro 1889 (as *Cocconeis pediculus* Kg.)
 Site: Mondego River (Mondego Basin)
 Reference: Zimmermann 1906 (as *Cocconeis pediculus* Ehr.)
 Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Oliveira 1971a (as *Cocconeis pediculus*)
 Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cocconeis pediculus* Ehrenberg)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cocconeis pediculus* Ehrenberg)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cocconeis pediculus* Ehrenberg)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cocconeis pediculus* Ehrenberg)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Cocconeis pediculus*); Almeida 1998 (as *Cocconeis pediculus* Ehrenberg)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis pediculus* Ehrenberg)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)

- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cocconeis pediculus* Ehrenberg)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis pediculus* Ehrenberg)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)
- Municipality: Mealhada (District: Aveiro)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cocconeis pediculus* Ehrenberg)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cocconeis pediculus* Ehrenberg)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Cocconeis pediculus*); Almeida 1998 (as *Cocconeis pediculus* Ehrenberg)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis pediculus*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cocconeis pediculus* Ehrenberg)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cocconeis pediculus* Ehrenberg)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfrazes
Reference: Carvalho 1913 (as *Cocconeis pediculus* Ehr.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Cocconeis pediculus* Ehr.); Santos & Carvalho 2001 (as *Cocconeis pediculus* Ehr.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cocconeis pediculus* Ehrenberg)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)

- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis pediculus*)
- Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cocconeis pediculus* Ehrenberg)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cocconeis pediculus*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cocconeis pediculus*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cocconeis pediculus*)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 References: Zimmermann 1906 (as *Cocconeis pediculus* Ehr.); Oliveira & Caldas 1970 (as *Cocconeis pediculus* Ehr.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cocconeis pediculus* Ehr.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cocconeis pediculus* Ehr.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cocconeis pediculus* Ehr.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cocconeis pediculus* Ehr.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cocconeis pediculus*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Cocconeis pediculus* Ehrenberg); Gil et al. 1991 (as *Cocconeis pediculus*)

REGION: ALENTEJO

- Subregion: Alto Alentejo
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cocconeis pediculus*)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Cocconeis pediculus*)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cocconeis pediculus*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cocconeis pediculus*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Cocconeis pediculus*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cocconeis pediculus*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cocconeis pediculus*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cocconeis pediculus*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Cocconeis pediculus* Ehr.); Bourrelly & Manguin 1946a (as *Cocconeis pediculus* Ehr.)
Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Cocconeis pediculus* Ehr.); Bourrelly & Manguin 1946a (as *Cocconeis pediculus* Ehr.)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Cocconeis pediculus* Ehrenberg)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Cocconeis pediculus*, fossil)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Cocconeis pediculus*, fossil)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Cocconeis pediculus* Kützing, fossil)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Cocconeis pediculus* Kützing, fossil)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Rivers in the South
Reference: Morais et al. 2009 (as *Cocconeis pediculus* Ehrenberg)
Site: Not Specified

Reference: INAG I.P. 2008 (as *Cocconeis pediculus* Ehrenberg)

***Cocconeis placentula* Ehrenberg 1838, p. 194 [CAS ref. 000288]**

Distribution (Fig. 183):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cocconeis placentula*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cocconeis placentula*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cocconeis placentula*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Cocconeis placentula* Ehrenberg); Nunes 2007 (as *Cocconeis placentula* Ehrenberg)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg var. *placentula*)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Cocconeis placentula* (Ehr.) Hust.)

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Cocconeis placentula*)

Subregion: Minho-Lima

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cocconeis placentula*)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cocconeis placentula*)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)

Site: Barragem de Covas, Coura River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Cocconeis placentula*)
Municipality: Not Specified
Site: Ínsua do Ranhão, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Cocconeis placentula*)
Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Cocconeis placentula*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Cocconeis placentula* Ehrenberg)
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Cocconeis placentula* Ehrenberg)
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Cocconeis placentula*)
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Cocconeis placentula* Ehrenberg)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Cocconeis placentula* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*); Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
 Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
 References: Nunes 2007 (as *Cocconeis placentula* Ehrenberg); Ferreira da Silva et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *placentula*)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Cocconeis placentula* Ehrenberg); Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 References: Nunes et al. 2002 (as *Cocconeis placentula* Ehrenberg var. *placentula*); Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)

- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Cocconeis placentula*); Almeida 1998
 (as *Cocconeis placentula* Ehrenberg)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
 River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al.
 1989-1990 (as *Cocconeis placentula*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
 River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al.
 1989-1990 (as *Cocconeis placentula*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg)

- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula*); Almeida 1998 (as *Cocconeis placentula* Ehrenberg)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cocconeis placentula*)
- Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 1998 (as *Cocconeis placentula* Ehrenberg); Almeida 2001 (as *Cocconeis placentula* Ehrenberg)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg var. *placentula*)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Cocconeis placentula* Ehrenberg); Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Cocconeis placentula* Ehrenberg); Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Cocconeis placentula* Ehrenberg); Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg)
- Municipality: Not Specified
- Site: Cértima River (Vouga Basin)
Reference: Gil 1993 (as *Cocconeis placentula*)
- Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cocconeis placentula* Ehrenberg)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfrazes
Reference: Carvalho 1913 (as *Cocconeis placentula* Ehr.)
- Site: Caldeirão
References: Carvalho 1913 (as *Cocconeis placentula* Ehr.); Santos & Carvalho 2001 (as *Cocconeis placentula* Ehr.)
- Site: Cubo
Reference: Carvalho 1913 (as *Cocconeis placentula* Ehr.)
- Site: Diz River
Reference: Carvalho 1913 (as *Cocconeis placentula* Ehr.)
- Site: Mondego River (Mondego Basin)

- References: Carvalho 1913 (as *Cocconeis placentula* Ehr.); Santos & Carvalho 2001 (as *Cocconeis placentula* Ehr.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Cocconeis placentula* Ehr.)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Cocconeis placentula*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cocconeis placentula*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
- Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Cocconeis placentula* Ehrenberg)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Cocconeis placentula*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cocconeis placentula* Ehrenberg)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cocconeis placentula* Ehrenberg); Gil et al. 1989-1990 (as *Cocconeis placentula*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cocconeis placentula*)
- Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cocconeis placentula*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Cabeçadas et al. 1980 (as *Cocconeis placentula*); Ferreira 1986 (as *Cocconeis placentula*); Brito & Andrade 1992 (as *Cocconeis placentula*)

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Zimmermann 1906 (as *Cocconeis placentula* Ehr.)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cocconeis placentula* Ehr.)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cocconeis placentula* Ehr.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cocconeis placentula* Ehr.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cocconeis placentula* Ehr.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cocconeis placentula*)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Cocconeis placentula* Ehr., fossil)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cocconeis placentula* Ehrenberg)

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Cocconeis placentula*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Cocconeis placentula* Ehrenberg)

Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Cocconeis placentula*);

Cerqueira da Silva et al. 1993 (as *Cocconeis placentula*); Cerqueira da

Silva 1994 (as *Cocconeis placentula*)

Site: Not Specified

References: Calado 1990 (as *Cocconeis placentula* Ehrenberg); Gil et al.

1991 (as *Cocconeis placentula*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Cocconeis placentula*)
Municipality: Sintra (District: Lisboa)
Site: Mula Reservoir, Mula Stream (Western Streams Basin)
Reference: Ferreira 1986 (as *Cocconeis placentula*)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Cocconeis placentula*);
Rodrigues & Moita 1979b (as *Cocconeis placentula*); Fernandes et al.
1987 (as *Cocconeis placentula*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Cocconeis placentula*); Oliveira 1984b (as
Cocconeis placentula); Oliveira 1987 (as *Cocconeis placentula* Ehr.)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Cocconeis placentula*);
Oliveira 1996 (as *Cocconeis placentula*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Cocconeis placentula* Ehrenberg)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Cocconeis placentula* Ehr.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Cocconeis placentula*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Cocconeis placentula* Ehr.); Fernandes et al.
1987 (as *Cocconeis placentula*)
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Cocconeis placentula*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cocconeis placentula*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Cocconeis placentula* Ehr.); Fernandes et al.
1987 (as *Cocconeis placentula*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

- Reference: Coutinho 1990a (as *Cocconeis placentula*)
- Subregion: Baixo Alentejo
- Municipality: Aljustrel (District: Beja)
- Site: Ponte do Curval, Água Forte Stream (Sado Basin)
- Reference: Luís et al. 2009 (as *Cocconeis placentula* Ehrenberg)
- Municipality: Almodôvar (District: Beja)
- Site: Monte da Vinha, Guadiana River (Guadiana Basin)
- Reference: Andrade & Brito 1991 (as *Cocconeis placentula*)
- Municipality: Ferreira do Alentejo (District: Beja)
- Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
- Reference: Oliveira 1984a (as *Cocconeis placentula*)
- Municipality: Mértola (District: Beja)
- Site: Acid mine drainage of the São Domingos mine
- Reference: Gerhardt et al. 2008 (as *Cocconeis placentula* Ehrenberg var. *placentula*)
- Municipality: Ourique (District: Beja)
- Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
- Reference: Oliveira 1984a (as *Cocconeis placentula*)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
- Site: Valada, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Cocconeis placentula*)
- Municipality: Chamusca (District: Santarém)
- Site: Chamusca, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Cocconeis placentula*)
- Municipality: Salvaterra de Magos (District: Santarém)
- Site: Magos Reservoir, Magos Stream (Tagus Basin)
- Reference: Oliveira 1984a (as *Cocconeis placentula*)
- Municipality: Santarém (District: Santarém)
- Site: Ómnias, Tagus River (Tagus Basin)
- References: Fernandes et al. 1987 (as *Cocconeis placentula*); Brito & Andrade 1992 (as *Cocconeis placentula*)
- Subregion: Not Specified
- Site: Rocha da Galé, Guadiana River (Guadiana Basin)
- Reference: Andrade & Brito 1991 (as *Cocconeis placentula*)
- Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)
- Reference: Gerhardt et al. 2008 (as *Cocconeis placentula* Ehrenberg var. *placentula*)
- REGION: AUTONOMOUS REGION OF AZORES
- Municipality: Angra do Heroísmo (Terceira Island)
- Site: Lagoa da Falca (Terceira Island)
- Reference: Gonçalves 1996 (as *Cocconeis placentula* Ehrenberg)
- Municipality: Lajes das Flores (Flores Island)
- Site: Lagoa Rasa

- References: Manguin 1942 (as *Cocconeis placentula* Ehr.); Bourrelly & Manguin 1946a (as *Cocconeis placentula* Ehr.)
- Municipality: Povoação (São Miguel Island)
- Site: Lagoa das Furnas
- References: Holmboe 1901 (as *Cocconeis placentula* Ehr.); Chaves 1908 (as *Cocconeis placentula* Ehr.); Manguin 1942 (as *Cocconeis placentula* Ehr.); Bourrelly & Manguin 1946a (as *Cocconeis placentula* Ehr.)
- Site: Pico da Vara
- Reference: Mölder 1947 (as *Cocconeis placentula* Ehr.)
- Site: Salto do Bargado, Furnas
- Reference: Chaves 1908 (as *Cocconeis placentula* Ehr., fossil)
- Site: Tambores, Furnas
- Reference: Chaves 1908 (as *Cocconeis placentula* Ehr., fossil)
- Municipality: Santa Cruz das Flores (Flores Island)
- Site: Not Specified
- Reference: Mölder 1947 (as *Cocconeis placentula* Ehr.)
- Municipality: Santa Cruz da Graciosa (Graciosa Island)
- Site: Barreiro
- Reference: Azevedo et al. 2005 (as *Cocconeis placentula*)
- Municipality: Vila Franca do Campo (São Miguel Island)
- Site: Lagoa do Congro
- References: Manguin 1942 (as *Cocconeis placentula* Ehr.); Bourrelly & Manguin 1946a (as *Cocconeis placentula* Ehr.)
- Municipality: Not Specified
- Site: Flores Island
- Reference: Gonçalves et al. 2010 (as *Cocconeis placentula* Ehrenberg, fossil)
- Site: Graciosa Island
- Reference: Gonçalves et al. 2010 (as *Cocconeis placentula* Ehrenberg, fossil)
- Site: Santa Maria Island
- Reference: Gonçalves et al. 2010 (as *Cocconeis placentula* Ehrenberg, fossil)
- Site: São Jorge Island
- Reference: Johansson 1977 (as *Cocconeis placentula* Ehr.); Gonçalves et al. 2010 (as *Cocconeis placentula* Ehrenberg, fossil)
- Site: São Miguel Island
- Reference: Gonçalves et al. 2010 (as *Cocconeis placentula* Ehrenberg, fossil)
- Site: Terceira Island
- Reference: Gonçalves et al. 2010 (as *Cocconeis placentula* Ehrenberg, fossil)
- Site: Not Specified
- Reference: Gonçalves 2008 (as *Cocconeis placentula* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Cocconeis placentula* Ehr.)
Site: Santa Luzia Stream
Reference: Zimmermann 1909a (as *Cocconeis placentula* Ehr.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Cocconeis placentula* Ehr.)
Municipality: Ribeira Brava (Madeira Island)
Site: Pico Stream, Serra da Ribeira Brava
Reference: Zimmermann 1909a (as *Cocconeis placentula* Ehr.)
Site: Pomar de Ambrosio, Campanário
Reference: Zimmermann 1909a (as *Cocconeis placentula* Ehr.)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Cocconeis placentula* Ehr.)
Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Cocconeis placentula* Ehr.)
Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Cocconeis placentula* Ehr.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *placentula*)

Site: Rivers in the North

Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *placentula*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cocconeis placentula* Ehrenberg var. *placentula*)

***Cocconeis placentula* var. *klinoraphis* Geitler 1927**, p. 514, text fig. 2a-b; pl. 12, fig. 1 [CAS ref. 001222]

Distribution (Fig. 184):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Cocconeis placentula* Ehr. var. *klinoraphis* Geitler)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cocconeis placentula* Ehrenberg var. *klinoraphis* Geitler)

***Cocconeis pseudolineata* (Geitler) Lange-Bertalot in Werum & Lange-Bertalot 2004, p. 133 [CAS ref. 012889]**

Basionym: *Cocconeis placentula* var. *pseudolineata* (*pseudolineata*) Geitler 1927 [CAS ref. 001222]

Distribution (Fig. 185):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Cocconeis placentula* Ehrenberg var. *pseudolineata* Geitler)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg var. *pseudolineata* Geitler)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg var. *pseudolineata* Geitler)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Cocconeis placentula* Ehrenberg var. *pseudolineata* Geitler)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Rivers in the South
Reference: Morais et al. 2009 (as *Cocconeis placentula* Ehrenberg var. *pseudolineata* Geitler)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cocconeis placentula* Ehrenberg var. *pseudolineata* Geitler)

Cocconeis scutellum Ehrenberg 1838, p. 194; pl. 14, fig. 8 [CAS ref. 000288]

Distribution (Fig. 186):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Cocconeis scutellum*)

Subregion: Not Specified

Municipality: Not Specified

Site: Impacted site after BKME discharge, Vouga River (Vouga Basin)

Reference: Ferreira et al. 2002 (as *Cocconeis scutellum*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Cocconeis scutellum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cocconeis scutellum* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Caminho do Meio

Reference: Zimmermann 1909a (as *Cocconeis scutellum* Ehr.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Cocconeis scutellum*)

Cocconeis scutellum var. *genuina* Cleve 1895, p. 170 [CAS ref. 000949]

Distribution (Fig. 187):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Cocconeis scutellum* Ehr. var. *genuina* Cl.)

***Cocconeis striata* Ehrenberg 1843a**, pl. 3/1, fig. 30 [CAS ref. 000294]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Cocconeis striata*)

***Cocconeis* sp.**

Distribution (Fig. 188):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)

Reference: Geraldès & Boavida 2005 (as *Cocconeis* sp.)

Subregion: Cávado

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cocconeis* sp.)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cocconeis* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Cocconeis* spp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cocconeis* sp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cocconeis* sp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Cocconeis* spp.)

***Coscinodiscus* Ehrenberg 1839a**, p. 128
[CAS ref. 000289]

***Coscinodiscus africanus* C. Janisch in Schmidt 1878**, pl. 59, fig. 24,
25 [CAS ref. 012453]

Distribution (Fig. 189):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Funchal
Reference: Tempère & Peragallo 1907-1915 (as *Coscinodiscus africanus*
Jan.)

***Coscinodiscus curvatulus* Grunow in Schmidt 1878**, pl. 57, fig. 33
[CAS ref. 012453]

Distribution (Fig. 190):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Funchal
Reference: Tempère & Peragallo 1907-1915 (as *Coscinodiscus curvatulus*
Grun.)

***Coscinodiscus decipiens* Grunow in Van Heurck 1882**, pl. 91, fig.
10 [CAS ref. 001036]

Distribution (Fig. 191):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Coscinodiscus decipiens* (?))

***Coscinodiscus excentricus* Ehrenberg 1840b**, p. 66 (146) [CAS ref. 000290]

Distribution (Fig. 192):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Funchal
Reference: Tempère & Peragallo 1907-1915 (as *Coscinodiscus excentricus* Eh.)

***Coscinodiscus lineatus* Ehrenberg 1839a**, p. 129 [CAS ref. 000289]

Distribution (Fig. 193):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Funchal
Reference: Tempère & Peragallo 1907-1915 (as *Coscinodiscus lineatus* Eh.)

***Coscinodiscus nodulifer* A.W.F. Schmidt in Schmidt 1878**, pl. 59, fig. 20-23 [CAS ref. 012453]

Distribution (Fig. 194):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Funchal
Reference: Tempère & Peragallo 1907-1915 (as *Coscinodiscus nodulifer* Jan.)

***Coscinodiscus nodulifer* f. *minor* Tempère & Peragallo 1914**, p. 465; No. 974 [CAS ref. 001070]

Distribution (Fig. 195):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Coscinodiscus nodulifer* f. *minor*)

***Coscinodiscus oculus-iridis* Ehrenberg emend Sancetta 1987**, v. 33 (3): p. 240; pl. 2, fig. 11-14, pl. 3, fig. 1-12 [CAS ref. 006766]

Distribution (Fig. 196):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Coscinodiscus oculus-iridis* Eh.)

***Coscinodiscus* sp.**

Distribution (Fig. 197):

REGION: NORTE

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Coscinodiscus* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Coscinodiscus* sp.)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Coscinodiscus* sp.)

Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Coscinodiscus* sp.); Cerqueira da Silva et al. 1993 (as *Coscinodiscus* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Coscinodiscus* spp.); Fernandes et al. 1987 (as *Coscinodiscus* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Coscinodiscus* sp.)

Subregion: Lezíria do Tejo

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Coscinodiscus* sp.)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Coscinodiscus* spp.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Coscinodiscus*)

***Cosmioneis* D.G. Mann & Stickle in Round, Crawford & Mann 1990, p. 665 [CAS ref. 003245]**

***Cosmioneis incognita* (Krasske) Lange-Bertalot in Werum & Lange-Bertalot 2004, p. 134 [CAS ref. 012889]**

Basionym: *Navicula incognita* Krasske 1932 [CAS ref. 000583]

Distribution (Fig. 198):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cosmioneis incognita* (Krasske) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Cosmioneis incognita* (Krasske) Lange-Bertalot)

***Cosmioneis pusilla* (W. Smith) D.G. Mann & Stickle in Round, Crawford & Mann 1990, p. 666 [CAS ref. 003245]**

Basionym: *Navicula pusilla* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 199):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Navicula pusilla* W. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pusilla* W. Smith)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pusilla* W. Smith)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pusilla* W. Smith)

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Navicula pusilla*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Navicula pusilla*)

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula pusilla* W. Sm.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula pusilla* W. Sm.)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula pusilla* W. Smith)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Navicula pusilla* W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Navicula pusilla* W. Sm.); Bourrelly &

Manguin 1946a (as *Navicula pusilla* W. Sm.)

Site: Ribeira Quente

References: Manguin 1942 (as *Navicula pusilla* W. Sm.); Bourrelly &

Manguin 1946a (as *Navicula pusilla* W. Sm.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified
Reference: Mölder 1947 (as *Navicula pusilla* W. Smith)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Navicula pusilla* W. Sm.); Bourrelly & Manguin 1946a (as *Navicula pusilla* W. Sm.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Cosmioneis pusilla* (W. Smith) Mann & Stickle)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Cosmioneis pusilla* (W. Smith) Mann & Stickle)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Cosmioneis pusilla* (W. Smith) Mann & Stickle)
Site: Not Specified
Reference: Gonçalves 2008 (as *Cosmioneis pusilla* (W. Smith) Mann & Stickle)

***Craticula* Grunow 1867, p. 20 [CAS ref. 000432]**

***Craticula accomoda* (Hustedt) D.G. Mann in Round, Crawford & Mann 1990, p. 666 [CAS ref. 003245]**

Basionym: *Navicula accomoda* (*accomoda*) Hustedt 1950 [CAS ref. 000522]

Distribution (Fig. 200):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula accomoda* Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula accomoda* Hustedt)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula accomoda*)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula accomoda* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula accomoda* Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula accomoda* Hustedt)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula accomoda* Hustedt)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Navicula accomoda* Hustedt)
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Navicula accomoda* Hustedt)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula accomoda* Hustedt)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula accomoda* Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Navicula accomoda* Hustedt)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Craticula accomoda* (Hustedt) D.G. Mann)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Craticula accomoda* (Hustedt) D.G. Mann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Craticula accomoda* (Hustedt) Mann)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula accomoda* Hustedt)

***Craticula ambigua* (Ehrenberg) D.G. Mann in Round, Crawford & Mann 1990, p. 666 [CAS ref. 003245]**

Basionym: *Navicula ambigua* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Navicula cuspidata* var. *ambigua* (Ehrenberg) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 201):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula ambigua* Ehr.)

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Not Specified

Reference: Zimmermann 1910 (as *Navicula ambigua* Ehr.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1910 (as *Navicula ambigua* Ehr.)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula cuspidata* var. *ambigua* (Ehr.) Cleve)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cuspidata* v. *ambigua*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Navicula cuspidata* Kg. var. *ambigua* (Ehr.)
Cleve)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1910 (as *Navicula ambigua* Ehr.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula ambigua* Ehr.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Craticula ambigua* (Ehrenberg)
D.G. Mann)

***Craticula cuspidata* (Kützing) D.G. Mann in Round, Crawford &
Mann 1990, p. 666 [CAS ref. 003245]**

Basionym: *Frustulia cuspidata* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 202):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: Izeda

Reference: Zimmermann 1910 (as *Navicula cuspidata* Kütz.)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Mondego River (Mondego Basin)

Reference: Zimmermann 1910 (as *Navicula cuspidata* Kütz.)

- Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: de Figueiredo et al. 2006 (as *Craticula cuspidata* (Kützing) Mann)
- Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Irrigation channel near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Navicula cuspidata* (Kützing) Kützing)
 Site: Marsh near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Navicula cuspidata* (Kützing) Kützing)
- Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Navicula cuspidata* (Kützing) Kützing)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cuspidata* Kützing)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cuspidata* Kützing); Almeida 1998 (as *Navicula cuspidata* Kützing)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cuspidata* Kützing)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cuspidata* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula cuspidata*); Almeida 1998 (as *Navicula cuspidata* Kützing)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)

- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cuspidata* Kützing)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula cuspidata* Kützing); Gil et al. 1989-1990 (as *Navicula cuspidata*)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula cuspidata*); Almeida 1998 (as *Navicula cuspidata* Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cuspidata*)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cuspidata* Kützing)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Navicula cuspidata* Kützing)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Caldeirão
 References: Carvalho 1913 (as *Navicula cuspidata* Kuetz.); Santos & Carvalho 2001 (as *Navicula cuspidata* Kuetz.)

Site: Porto da Carne
Reference: Carvalho 1913 (as *Navicula cuspidata* Kuetz.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula cuspidata* Kuetz.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula cuspidata* Kützing)
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Navicula cuspidata* Kütz., fossil)
Municipality: Torres Vedras (District: Lisboa)
Site: Catefica
Reference: Zimmermann 1910 (as *Navicula cuspidata* Kütz.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula cuspidata* Kützing); Gil et al. 1991
(as *Navicula cuspidata*)

REGION: ALENTEJO

Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula cuspidata*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Navicula cuspidata* Kuetz.)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Craticula cuspidata* (Kützing) Mann)

***Craticula halophila* (Grunow ex Van Heurck) D.G. Mann in Round, Crawford & Mann 1990, p 666 [CAS ref. 003245]**

Basionym: *Navicula cuspidata* var. *halophila* Grunow in Van Heurck 1885 [CAS ref. 001040]

Nomenclatural synonym: *Navicula halophila* (Grunow in Van Heurck) Cleve 1894 [CAS ref. 000232]

Synonyms: *Navicula halophila* var. *subcapitata* Østrup 1910 [CAS ref. 000706] , according to Krammer & Lange-Bertalot 1986, p.126

Navicula simplex Krasske 1925 [CAS ref. 000580] , according to Krammer & Lange-Bertalot 1986, p.126

Navicula halophila f. *robusta* Hustedt 1959b [CAS ref. 002276], according to Krammer & Lange-Bertalot 1986, p.126

Distribution (Fig. 203):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Craticula halophila*); de Figueiredo et al. 2006 (as *Craticula halophila* (Grunow ex Van Heurck) Mann)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula halophila* (Grunow) Cleve)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula halophila*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula halophila*)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula halophila*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophila* (Grunow) Cleve)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula halophila*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula halophila*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Navicula halophila* (Grunow) Cleve)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Craticula halophila* (Grunow in Van Heurck) D.G. Mann)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Craticula halophila* (Grunow in Van Heurck) D.G. Mann)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus and Sado Sedimentary Deposits

Reference: Morais et al. 2009 (as *Navicula halophila* (Grunow) Cleve (*Craticula*))

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula halophila* (Grunow) Cleve (*Craticula*))

***Craticula halophila* f. *robusta* (Hustedt) Czarnecki 1994**, p. 157
[CAS ref. 008152]

Basionym: *Navicula halophila* f. *robusta* Hustedt 1959b [CAS ref. 002276]

Synonyms: *Navicula halophila* (Grunow in Van Heurck) Cleve 1894 [CAS ref. 000232], according to Krammer & Lange-Bertalot 1986, p.126

Navicula halophila var. *subcapitata* Østrup 1910 [CAS ref. 000706], according to Krammer & Lange-Bertalot 1986, p.126

Navicula simplex Krasske 1925 [CAS ref. 000580], according to Krammer & Lange-Bertalot 1986, p.126

Distribution:

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Navicula halophila* (Grunow) Cleve var. *robusta* Hustedt)

***Craticula halophiloides* (Hustedt) Lange-Bertalot 2001, p. 114**
[CAS ref. 009456]

Basionym: *Navicula halophiloides* Hustedt 1959b [CAS ref. 002276]

Distribution (Fig. 204):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula halophiloides* Hustedt)

Municipality: Vila Verde (District: Aveiro)

Site: Levira River (Cértima Basin)

Reference: Almeida 2001 (as *Navicula halophiloides* Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001 (as *Navicula halophiloides* Hustedt)

***Craticula minusculoides* (Hustedt) Lange-Bertalot 2001**, p. 115
[CAS ref. 009456]

Basionym: *Navicula minusculoides* Hustedt 1942b [CAS ref. 002270]

Distribution (Fig. 205):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula minusculoides* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula minusculoides* Hustedt)

Municipality: Estarreja (District: Aveiro)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula minusculoides* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula minusculoides* Hustedt)

***Craticula molesta* (Krasske) Lange-Bertalot & Willmann in Lange-Bertalot et al. 1996a**, v. 3: p. 130-131 [CAS ref. 008470]

Basionym: *Navicula molesta* Krasske 1938 [CAS ref. 000586]

Distribution (Fig. 206):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula molesta* Krasske)

Site: Águeda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Navicula molesta* Krasske); Gil et al. 1989-1990 (as *Navicula molesta*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula molesta*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula molesta* Krasske); Gil et al. 1989-1990 (as *Navicula molesta*)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula molesta*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula molesta*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula molesta*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula molesta*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula molesta* Krasske)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula molesta*)

***Craticula molestiformis* (Hustedt) Lange-Bertalot 2001**, p. 116
[CAS ref. 009456]

Basionym: *Navicula molestiformis* Hustedt 1949 [CAS ref. 000521]

Synonym: *Navicula twymaniana* Archibald 1966 [CAS ref. 003383], according to
Krammer & Lange-Bertalot 1986, p. 130

Distribution (Fig. 207):

REGION: CENTRO

Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga
Basin)
Reference: Nunes 2007 (as *Navicula molestiformis* Hustedt)
Site: Valmaior (downstream of the mouth of Filvida River), Caima River
(Vouga Basin)
Reference: Nunes 2007 (as *Navicula molestiformis* Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Navicula molestiformis* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Craticula molestiformis* (Hustedt)
Lange-Bertalot, fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula molestiformis* Hustedt)

***Craticula riparia* (Hustedt) Lange-Bertalot 1993**, p. 14; pl. 70, fig. 1-8, pl. 71, fig. 1-5 [CAS ref. 008467]

Basionym: *Navicula riparia* Hustedt 1942b [CAS ref. 002270]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Craticula riparia* (Hustedt) Lange-Bertalot)

***Craticula submolesta* (Hustedt) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 42; pl. 104, fig. 1 [CAS ref. 007048]

Basionym: *Navicula submolesta* Hustedt 1949 [CAS ref. 000521]

Distribution (Fig. 208):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula submolesta* Hustedt)

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Craticula submolesta* (Hust.) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Craticula submolesta* (Hust.) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula submolesta* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula submolesta* Hustedt)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula submolesta* Hustedt)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Navicula submolesta* Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula submolesta* Hustedt); Almeida & Gil 2001 (as *Navicula submolesta* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Craticula submolesta* (Hustedt) Lange-Bertalot)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Craticula submolesta* (Hustedt) Lange-Bertalot)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Craticula submolesta* (Hustedt) Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Craticula submolesta* (Hustedt) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Craticula submolesta* (Hustedt) Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Craticula submolesta* (Hust.) Lange-Bertalot)

***Craticula* sp.**

Distribution (Fig. 209):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Bragança (District: Bragança)
Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)
Reference: Geraldès & Boavida 2005 (as *Craticula* sp.)

***Ctenophora* (Grunow) D.M. Williams & Round 1986,**
p. 330 [CAS ref. 003154]

***Ctenophora pulchella* (Ralfs ex Kützing) D.M. Williams & Round 1986,** p. 330; fig. 53-61 [CAS ref. 003154]

Basionym: *Synedra pulchella* (Ralfs ex Kützing) Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot 1980a, p. 749 [CAS ref. 008465]

Distribution (Fig. 210):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra pulchella*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra pulchella*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra pulchella*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra pulchella*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra pulchella*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra pulchella*)

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Pampolide

References: Colmeiro 1889 (as *Synedra pulchella* Kg.); Zimmermann 1914 (as *Synedra pulchella* (Ralfs) Kuetz.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing); Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra pulchella* Lange-Bertalot)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)

Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)

Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Municipality: Anadia (District: Aveiro)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra pulchella*)

Site: São João de Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Synedra pulchella*); Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing))

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

- References: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing); Gil et al. 1989-1990 (as *Synedra pulchella*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing); Gil et al. 1989-1990 (as *Synedra pulchella*)
 Site: Vagueira, Canal de Mira
 Reference: Mendes et al. 2009 (as *Synedra pulchella*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Synedra pulchella*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Synedra pulchella*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Synedra pulchella*)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Synedra pulchella*); Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Synedra pulchella*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Synedra pulchella* Kützing)
 Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra pulchella*)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)

Site: Outeiro do Bispo
Reference: Zimmermann 1909b (as *Synedra pulchella* (Ralfs) Kuetz.)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kützing)

Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Synedra pulchella*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Synedra pulchella*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra pulchella*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Cabeçadas et al. 1980 (as *Synedra pulchella*); Andrade et al. 1988 (as *Synedra pulchella*); Brito & Andrade 1991 (as *Synedra pulchella*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra pulchella*)

Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra pulchella*)

Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Synedra pulchella*); Cerqueira da Silva et al. 1993 (as *Synedra pulchella*); Cerqueira da Silva 1994 (as *Synedra pulchella*)
Site: Not Specified
References: Calado 1990 (as *Synedra pulchella* Ralfs & Kützing); Gil et al. 1991 (as *Synedra pulchella*)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra pulchella*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Synedra pulchella*); Oliveira 1996 (as *Synedra pulchella*)

Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Synedra pulchella* Kz.)

Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Synedra pulchella* Kütz.); Fernandes et al. 1987 (as *Synedra pulchella*)

Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Synedra pulchella*)

Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra pulchella*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Synedra pulchella* Kütz.); Fernandes et al. 1987 (as *Synedra pulchella*)

Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Synedra pulchella*)

Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Synedra pulchella*)

Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra pulchella*)

Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra pulchella*)

Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra pulchella*)

Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Synedra pulchella*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Synedra pulchella* Kütz.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Synedra pulchella* Kütz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Ctenophora pulchella* (Ralfs ex Kützing) D.M. Williams & Round)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria pulchella* (Ralfs ex Kützing) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Synedra pulchella* Kütz.)

REGION: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Synedra pulchella*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria pulchella* (Ralfs ex Kütz.) Lange-Bertalot (*Ctenophora*))

***Ctenophora pulchella* var. *lanceolata* (O'Meara) Bukhtiyarova
1995, p. 419 [CAS ref. 008000]**

Basionym: *Synedra pulchella* var. *lanceolata* O'Meara 1875 [CAS ref. 000694]

Nomenclatural synonym: *Fragilaria pulchella* var. *lanceolata* (O'Meara) Witkowski, Lange-Bertalot & Metzeltin 2000 [CAS ref. 009017]

Distribution (Fig. 211):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Synedra pulchella* Ralfs & Kütz. v. *lanceolata* O'Meara)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Synedra pulchella* (Ralfs) Kuetz. var. *lanceolata* O'Meara); Santos & Carvalho 2001 (as *Synedra pulchella* (Ralfs) Kuetz. var. *lanceolata* O'Meara)

***Cyclostephanos Round* ex E.C. Theriot, Håkansson, Kociolek, Round & Stoermer 1987**, p. 346. Description in Round 1982 p. 326 [CAS ref. 003157]

***Cyclostephanos dubius* (Fricke) Round validated by E.C. Theriot et al. 1987a**, v. 22 (4): p. 346 [CAS ref. 006794]

Basionym: *Cyclotella dubia* Fricke in Schmidt 1900 [CAS ref. 012481]

Distribution (Fig. 212):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclostephanos dubius* (Fricke) Round)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclostephanos dubius* (Fricke) Round)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Cyclostephanos dubius* (Fricke) Round)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Cyclostephanos dubius* (Fricke) Round)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclostephanos dubius* (Fricke) Round)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cyclostephanos dubius* (Fricke) Round)

***Cyclostephanos invisitatus* (M.H. Hohn & Hellerman) E.C. Theriot, Stoermer & Håkansson 1987b**, p. 256-257; fig. 18-24 [CAS ref. 008893]

Basionym: *Stephanodiscus invisitatus* M.H. Hohn & Hellerman 1963 [CAS ref. 000486]

Distribution (Fig. 213):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Cyclostephanos invisitatus* (Hohn & Hellerman) Theriot, Stoermer & Hakansson)

***Cyclotella* (Kützing) Brébisson 1838**, p. 19
[CAS ref. 000161]

***Cyclotella atomus* Hustedt 1937b**, p. 143; pl. 9, fig. 1-4 [CAS ref. 001011]

Distribution (Fig. 214):

REGION: Not Specified

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cyclotella atomus* Hustedt)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella atomus* Hustedt)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Cyclotella atomus* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella atomus* Hustedt)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella atomus* Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cyclotella atomus* Hustedt)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (as *Cyclotella atomus* Hust.)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Cyclotella atomus* Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cyclotella atomus* Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cyclotella atomus* Hustedt)

***Cyclotella catenata* (Brun) H. Bachmann 1911**, p. 130; fig. 116-117
[CAS ref. 001590]

Distribution (Fig. 215):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Cyclotella catenata*)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella catenata* (?))

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cyclotella catenata* Brun, fossil)

Cyclotella chaetoceras Lemmermann 1900b, p. 29 [CAS ref. 001342]

Distribution (Fig. 216):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Cyclotella chaetoceras* ??)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella chaetoceras* ??)

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Cyclotella chaetoceras* Lemmerm, fossil)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Cyclotella chaetoceras* (?));
Fernandes et al. 1987 (as *Cyclotella chaetoceras* (?))
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cyclotella chaetoceras*)

***Cyclotella comensis* Grunow in Van Heurck 1882**, pl. 93, fig. 16, 17
[CAS ref. 001036]

Distribution (Fig. 217):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Nauwerck 1962 (as *Cyclotella comensis* Grunow); Frade
1963 (as *Cyclotella comensis* Grun.)

***Cyclotella comta* (Ehrenberg) Kützing 1849**, p. 20 [CAS ref.
000596]

Basionym: *Discoplea comta* Ehrenberg 1844c [CAS ref. 001185]

Distribution (Fig. 218):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cyclotella comta*)
Municipality: Anadia (District: Aveiro)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cyclotella comta*)
Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Cyclotella comta* (Ehrenberg)
Kützing)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella comta* (Ehrenberg) Kützing)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Cyclotella comta* (Ehrenberg) Kützing)
- Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Cyclotella comta*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cyclotella comta* (Ehrenberg) Kützing)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cyclotella comta* (Ehrenberg) Kützing)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cyclotella comta*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cyclotella comta*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Cyclotella comta* (Ehrenberg) Kützing)

REGION: LISBOA

- Subregion: Península de Setúbal
 Municipality: Sesimbra (District: Setúbal)
 Site: Lagoa de Albufeira
 Reference: Nauwerck 1962 (as *Cyclotella comta* (Ehrenberg) Kützing)

REGION: ALENTEJO

- Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: Pêgo do Altar Reservoir (ancient Salazar Reservoir), Alcáçovas Stream (Sado Basin)
 Reference: Nauwerck 1962 (as *Cyclotella comta* (Ehrenberg) Kützing)
 Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)
 Reference: Nauwerck 1962 (as *Cyclotella comta* (Ehrenberg) Kützing)
- Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 Reference: Oliveira 1984b (as *Cyclotella comta*)
- Municipality: Santiago do Cacém (District: Setúbal)
 Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Cyclotella comta*)
- Subregion: Alto Alentejo
 Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cyclotella comta* (E.) Kg.)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cyclotella comta* (E.) Kg.)
Site: Poio Reservoir, Nisa Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Cyclotella comta* (Ehrenberg) Kützing)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Cyclotella comta*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella cistula* (Ehr.) Kützing)

***Cyclotella cryptica* Reimann, J.C. Lewin & Guillard 1963**, p. 75-84;
fig. 4-11 [CAS ref. 001844]

Distribution (Fig. 219):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Cyclotella cryptica* Reimann et
Volcani)

***Cyclotella distinguenda* Hustedt 1927a**, p. 320; fig. 4 [CAS ref.
013174]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cyclotella distinguenda* var. *distinguenda*
Hustedt)

Cyclotella gordonensis H.J. Kling & Håkansson 1988, p. 70, 72; fig. 51, 52, 98-100 [CAS ref. 008422]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cyclotella gordonensis* Kling & Hakansson)

Cyclotella iris Brun & Héribaud in Héribaud 1893, p. 224; pl. 6, fig. 1 [CAS ref. 000481]

Distribution (Fig. 220):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib.)

Site: Pico da Vara

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib.)

Site: Ribeira Quente

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Cyclotella iris* Brun & Héribaud)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Cyclotella iris* Brun & Héribaud)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cyclotella iris* Brun & Héribaud)

***Cyclotella iris* var. *ovalis* Mohan 1989**, v. 58 (6): p. 297; fig. 14-16
[CAS ref. 008049]

Distribution (Fig. 221):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.)

Site: Pico Verde

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.)

Site: Ribeira Quente

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.); Bourrelly & Manguin 1946a (as *Cyclotella iris* J. Br. et Hérib. var. *ovalis* J. Br. et Hérib.)

***Cyclotella kuetzingiana* Thwaites 1848**, p. 169; pl. 11/D, fig. 1-5
[CAS ref. 000886]

Distribution (Fig. 222):

REGION: NORTE

Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Cyclotella kützingiana*)
Subregion: Not Specified
Municipality: Not Specified
Site: Gerês River (Cávado Basin)
Reference: González-Guerrero 1949 (as *Cyclotella Kutzingiana* Thwait.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Bom-Sucesso
Reference: Nauwerck 1962 (as *Cyclotella kuetzingiana* Thwait.)
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Cyclotella kutzingiana*)
Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Cyclotella kützingiana*)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Cyclotella kützingiana*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Cyclotella kützingiana*)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cyclotella kuetzingiana* Thwait.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cyclotella kuetzingiana* Thwait.)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Cyclotella kützingiana*)

REGION: LISBOA

Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Cyclotella Kuetzingiana* Thw., fossil)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
Reference: Oliveira & Monteiro 1995 (as *Cyclotella kützingiana*);
Oliveira 1996 (as *Cyclotella kützingiana*)

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Cyclotella kützingiana*)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1984a (as *Cyclotella kützingiana*)

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Cyclotella kützingiana*)
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Cyclotella kützingiana*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cyclotella Kützingiana* Thwaites)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cyclotella Kützingiana* Thwaites)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Cyclotella kützingiana*); Coutinho 1990a
(as *Cyclotella kützingiana*)

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Cyclotella kützingiana* Thwaites); Oliveira
1984a (as *Cyclotella kützingiana*)
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cyclotella kützingianum*)

Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cyclotella Kuetzingiana* Thwait., fossil)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Cyclotella kützingiana*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Cyclotella kuetzingiana* Thwait.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Cyclotella Kutsingiana* Thw.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cyclotella kutzingiana* Thwaites)

***Cyclotella meduanae* H. Germain 1981**, p. 36; pl. 8, fig. 28, pl. 154, fig. 4, 4a [CAS ref. 009183]

Distribution (Fig. 223):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella meduanae* Germain)

***Cyclotella melosiroides* (Kirchner in Schroter & Kirchner) Lemmermann 1900b**, p. 29 [CAS ref. 001342]

Basionym: *Cyclotella comta* var. *melosiroides* Kirchner in Schröter 1896 [CAS ref. 001857]

Distribution (Fig. 224):

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella melosiroides*)

***Cyclotella meneghiniana* Kützing 1844**, p. 50; pl. 30, fig. 68 [CAS ref. 000595]

Distribution (Fig. 225):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella meneghiniana*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella meneghiniana*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella meneghiniana*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella meneghiniana*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella meneghiniana*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella meneghiniana*)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Cyclotella meneghiniana* Kützing)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing); Nunes 2007 (as *Cyclotella meneghiniana* Kützing)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Cyclotella meneghiniana*); Nunes 2007 (as *Cyclotella meneghiniana* Kützing)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Cyclotella Meneghiniana* Kütz.)

Municipality: Porto (District: Porto)

Site: Prelada

Reference: Silva 1950b (as *Cyclotella Meneghiniana* Kütz.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Cyclotella meneghiniana* Kützing)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios
References: Abrantes et al. 2006 (as *Cyclotella meneghiniana*); de Figueiredo et al. 2006 (as *Cyclotella meneghiniana* Kützing)

Municipality: Montemor-o-Velho (District: Coimbra)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Cyclotella meneghiniana* Kützing)

Municipality: Penacova (District: Coimbra)
Site: Aguieira Reservoir, Mondego River (Mondego Basin)
Reference: Oliveira & Monteiro 1992 (as *Cyclotella meneghiniana*)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*); Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Cyclotella meneghiniana* Kützing); Ferreira da Silva et al. 2009 (as *Cyclotella meneghiniana* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)
 Site: Ribeira de Fráguas (downstream of the Caima paper factory), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)
 Site: Valmaior (downstream of the mouth of River Filvida), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*); Almeida 1998 (as *Cyclotella meneghiniana* Kützing)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Cyclotella meneghiniana* Kützing)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)

Site: Vagueira, Canal de Mira
 Reference: Mendes et al. 2009 (as *Cyclotella meneghiniana*)

Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)

Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*); Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cyclotella meneghiniana*)

Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Cyclotella meneghiniana* Kützing)

Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Cyclotella meneghiniana* Kützing)

Municipality: Not Specified

- Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cyclotella meneghiniana* Kützing)
- Subregion: Beira Interior Sul
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Cyclotella meneghiniana*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella meneghiniana*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)
- Site: Varzias, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Cyclotella meneghiniana* Kützing)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1989-1990 (as *Cyclotella meneghiniana*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Cyclotella meneghiniana*)
- Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Cyclotella meneghiniana*)
- Site: Pego, Tagus River (Tagus Basin)
Reference: Cerqueira da Silva 1989 (as *Cyclotella meneghiniana*)
- Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella meneghiniana*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

- Reference: Cabeçadas et al. 1980 (as *Cyclotella meneghiniana*); Ferreira 1986 (as *Cyclotella meneghiniana*); Brito & Andrade 1992 (as *Cyclotella meneghiniana*)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (*Cyclotella meneghiniana* Kg.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cyclotella meneghiniana* Kützing)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cyclotella meneghiniana* Kützing)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cyclotella meneghiniana* Kützing)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cyclotella meneghiniana* Kützing)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cyclotella meneghiniana*)
 Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Cyclotella meneghiniana*)
- Subregion: Pinhal Interior Norte
- Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Cyclotella meneghiniana* Kützing)
- Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Cyclotella meneghiniana*)
- Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouça Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Cyclotella meneghiniana*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Cyclotella meneghiniana*)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Cyclotella meneghiniana* Kützing)
- Subregion: Not Specified
- Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Cyclotella meneghiniana*)
 Site: Not Specified
 References: Calado 1990 (as *Cyclotella meneghiniana* Kützing); Gil et al. 1991 (as *Cyclotella meneghiniana*)
- REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Mafra (District: Lisboa)

- Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Cyclotella meneghiniana*)
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 Reference: Rodrigues & Moita 1979a (as *Cyclotella meneghiniana*);
 Rodrigues & Moita 1979b (as *Cyclotella meneghiniana*); Fernandes et al.
 1987 (as *Cyclotella meneghiniana*)
- REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 References: Oliveira 1984a (as *Cyclotella meneghiniana*); Oliveira 1984b
 (as *Cyclotella meneghiniana*); Oliveira & Monteiro 1993a (as *Cyclotella
 meneghiniana*); Oliveira & Monteiro 1993b (as *Cyclotella meneghiniana*);
 Andrade & Brito 1995 (as *Cyclotella meneghiniana*)
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Oliveira & Monteiro 1995 (as *Cyclotella meneghiniana*);
 Oliveira 1996 (as *Cyclotella meneghiniana*)
- Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
 Reference: Ferreira 1986 (as *Cyclotella meneghiniana*)
 Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)
 Reference: Nauwerck 1962 (as *Cyclotella meneghiniana* Kützing)
 Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
 Reference: Oliveira 1984a (as *Cyclotella meneghiniana*)
 Municipality: Not Specified
 Site: Sado Estuary (Sado Basin)
 Reference: Oliveira & Coutinho 1992 (as *Cyclotella meneghiniana*)
 Site: Sado River (Sado Basin)
 Reference: Monteiro *et al.* 1995 (as *Cyclotella meneghiniana*)
- Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Cyclotella meneghiniana*)
 Municipality: Elvas, Portalegre (District: Portalegre)
 Site: Caia Reservoir, Caia River (Guadiana Basin)
 Reference: Oliveira 1984a (as *Cyclotella meneghiniana*)
 Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Cyclotella meneghiniana* Kg.); Fernandes et al.
 1987 (as *Cyclotella meneghiniana*)
 Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)

- Reference: Oliveira 1975 (as *Cyclotella Meneghiniana*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella meneghiniana*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cyclotella meneghiniana* Kg.); Fernandes et al. 1987 (as *Cyclotella meneghiniana*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Cyclotella meneghiniana*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Cyclotella meneghiniana* Kützing)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Cyclotella meneghiniana* Kützing)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Cyclotella meneghiniana* Kg.); Oliveira 1984a (as *Cyclotella meneghiniana*)
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cyclotella meneghiniana*)
Municipality: Ourique (District: Beja)
Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
Reference: Oliveira 1984a (as *Cyclotella meneghiniana*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella meneghiniana*); Oliveira et al. 1989 (as *Cyclotella meneghiniana*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella meneghiniana*)
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cyclotella meneghiniana* Kütz., fossil)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Cyclotella meneghiniana*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella meneghiniana*); Brito & Andrade 1992 (as *Cyclotella meneghiniana*)
Subregion: Not Specified
Municipality: Not Specified
Site: Guadiana River (Guadiana Basin)

Reference: Oliveira 1991 (as *Cyclotella meneghiniana*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cyclotella meneghiniana*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Cyclotella meneghiniana* Kützing)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Cyclotella meneghiniana* Kützing)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cyclotella meneghiniana* Kützing)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Cyclotella meneghiniana*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cyclotella meneghiniana* Kützing)

***Cyclotella meneghiniana* var. *rectangulata* (Brébisson in Pritchard) Grunow in Van Heurck 1882**, pl. 94, fig. 17-19 [CAS ref. 001036]

Basionym: *Cyclotella rectangula* Brébisson in Prichard 1861 [CAS ref. 001063]

Distribution (Fig. 226):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Cyclotella meneghiniana* var. *rectangulata* Bréb.)

***Cyclotella ocellata* Pantocsek 1902**, p. 104; pl. 15, fig. 318 [CAS ref. 000715]

Distribution (Fig. 227):

REGION: NORTE

Subregion: Not Specified

Site: Ave Reservoirs, Ave River (Ave Basin)
References: Branco et al. 1991a (as *Cyclotella ocellata*); Branco et al. 1991b (as *Cyclotella ocellata*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Cyclotella ocellata*); de Figueiredo et al. 2006 (as *Cyclotella ocellata* Pantocsek)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cyclotella ocellata*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cyclotella ocellata*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cyclotella ocellata*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cyclotella ocellata*)

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Cyclotella ocellata*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cyclotella ocellata* Pantocsek)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Cyclotella ocellata*)
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (*Cyclotella ocellata* Pant.)
- Subregion: Oeste
 Municipality: Óbidos (District: Leiria)
 Site: Not Specified
 Reference: Silva 1946b (as *Cyclotella ocellata* Pant., fossil)
- Subregion: Pinhal Interior Norte
 Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Cyclotella ocellata* Pantocsek)
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Cyclotella ocellata*)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Cyclotella ocellata*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Cyclotella ocellata*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Cyclotella ocellata* Pantocsek); Almeida 1998 (as *Cyclotella ocellata* Pantocsek)
- REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 References: Oliveira 1984b (as *Cyclotella ocellata*); Oliveira & Monteiro 1993a (as *Cyclotella ocellata*); Oliveira & Monteiro 1993b (as *Cyclotella ocellata*)
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

- References: Oliveira & Monteiro 1993a (as *Cyclotella ocellata*); Oliveira & Monteiro 1993b (as *Cyclotella ocellata*); Oliveira & Monteiro 1995 (as *Cyclotella ocellata*); Oliveira 1996 (as *Cyclotella ocellata*)
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
- Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
- Reference: Oliveira 1984a (as)
- Site: São Romão, Sado River (Sado Basin)
- Reference: Coutinho 2003 (as *Cyclotella ocellata* Pantocsek)
- Municipality: Odemira (District: Beja)
- Site: Santa Clara Reservoir, Mira River (Mira Basin)
- References: Oliveira 1984a (as *Cyclotella ocellata*); Oliveira 1992 (as *Cyclotella ocellata* Pant.)
- Municipality: Santiago do Cacém (District: Setúbal)
- Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
- Reference: Oliveira 1984a (as *Cyclotella ocellata*)
- Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
- Reference: Oliveira 1984a (as *Cyclotella ocellata*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
- Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
- Reference: Oliveira 1984c (as *Cyclotella ocellata* Pantocsek)
- Municipality: Gavião (District: Portalegre)
- Site: Belver Reservoir, Tagus River (Tagus Basin)
- Reference: INIP 1977 (as *Cyclotella ocellata* Pant.)
- Municipality: Elvas, Portalegre (District: Portalegre)
- Site: Caia Reservoir, Caia River (Guadiana Basin)
- Reference: Oliveira 1984a (as *Cyclotella ocellata*)
- Municipality: Ponte de Sôr (District: Portalegre)
- Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
- References: Oliveira 1984a (as *Cyclotella ocellata*); Coutinho 1990a (as *Cyclotella ocellata*)
- Subregion: Baixo Alentejo
- Municipality: Aljustrel (District: Beja)
- Site: Água Forte, Água Forte Stream (Sado Basin)
- Reference: Luís et al. 2009 (as *Cyclotella ocellata* Pantocsek)
- Site: Porto de Beja, Água Forte Stream (Sado Basin)
- Reference: Luís et al. 2009 (as *Cyclotella ocellata* Pantocsek)
- Site: Porto Ferreira, Roxo Stream (Sado Basin)
- Reference: Luís et al. 2009 (as *Cyclotella ocellata* Pantocsek)
- Site: Roxo Reservoir, Roxo Stream (Sado Basin)
- Reference: Oliveira 1976 (as *Cyclotella ocellata* Pant.); Oliveira 1984a (as *Cyclotella ocellata*)
- Municipality: Ferreira do Alentejo (District: Beja)
- Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
- Reference: Oliveira 1984a (as *Cyclotella ocellata*)

Municipality: Ourique (District: Beja)
Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
Reference: Oliveira 1984a (as *Cyclotella ocellata*)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cyclotella ocellata* Pant., fossil)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Cyclotella ocellata*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Cyclotella ocellata*)
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Cyclotella ocellata*)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cyclotella ocellata* Pantocsek)

***Cyclotella operculata* (C. Agardh) Brébisson 1838**, p. 20 [CAS ref. 000161]

Basionym: *Frustulia operculata* C. Agardh 1827 [CAS ref. 000103]

Distribution (Fig. 228):

REGION: NORTE

Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Cyclotella operculata*)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Cyclotella operculata*)
Subregion: Ave
Municipality: Vieira do Minho (District: Braga)
Site: Salamonde Reservoir, Cávado River (Cávado Basin)
Reference: Oliveira 1982a (as *Cyclotella operculata*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Cyclotella operculata*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Cyclotella operculata*)

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (*Cyclotella operculata* (Ag) Kg.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Cyclotella operculata*)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Cyclotella operculata*)

Subregion: Pinhal Interior Sul

Municipality: Mação (District: Santarém)

Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Cyclotella operculata*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Cyclotella operculata*)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Cyclotella operculata* (Ag.) Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Cyclotella operculata*)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Cyclotella operculata* Ktz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cyclotella operculata* (C. Agardh) Kützing)

***Cyclotella planctonica* Brunnthaler in Brunnthaler, Prowazek & von Wettstein 1901**, p. 7; fig. 1-2 [CAS ref. 001608]0

Distribution (Fig. 229):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cyclotella planctonica* Brunnth.)

***Cyclotella striata* (Kützing) Grunow in Cleve & Grunow 1880**, p. 119 [CAS ref. 000241]

Basionym: *Coscinodiscus striatus* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 230):

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Referencépe: Silva 1950a (as *Cyclotella striata* (Kütz.) Grun.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Cyclotella striata* (Kützing) Grunow)

Formatada: Portug
(Portugal)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Cyclotella striata* (Kütz.) Grun., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

References: Silva 1946a (as *Cyclotella striata* (Kütz.) Grun., fossil); Silva 1946b (as *Cyclotella striata* (Kütz.) Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Cyclotella striata* (Kützing)
Grunow)

***Cyclotella* sp.**

Distribution (Fig. 231):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)

Reference: Geraldès & Boavida 2005 (as *Cyclotella* sp.)

Subregion: Cávado

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella* sp.)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cyclotella* sp.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella* sp.)

Municipality: Melgaço (District: Viana do Castelo)

Site: São Gregório, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella* sp.)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella* sp.)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella* sp.)

Municipality: Not Specified

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella* sp.)

Subregion: Tâmega

Municipality: Marco de Canavezes (District: Porto)

Site: Torrão Reservoir, Tâmega River (Douro Basin)

Reference: Branco & Guimarães 1991 (as *Cyclotella* sp.)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão Reservoir, Caldeirão Stream
Reference: MAOT 2002 (as *Cyclotella* sp.)
Subregion: Beira Interior Sul
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Pego, Tagus River (Tagus Basin)
Reference: Cerqueira da Silva 1989 (as *Cyclotella* sps.)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Andrade et al. 1988 (as *Cyclotella* sp.); Brito & Andrade 1992
(as *Cyclotella* spp.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Cyclotella* sp.); Cerqueira da
Silva et al. 1993 (as *Cyclotella* sp.)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Cyclotella* sp.)
Subregion: Alto Alentejo
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Cyclotella* sp.)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)

Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
References: Oliveira 1984a (as *Cyclotella* sp.); Coutinho 1990a (as
Cyclotella sp.)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cyclotella* spp.)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella* spp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Cyclotella* spp.); Brito & Andrade
1992 (as *Cyclotella* spp.)
Subregion: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cyclotella* spp.)

REGION: ALGARVE

Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Cyclotella* sp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Cyclotella* sp.)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Cyclotella* spp.)

***Cylindrotheca* Rabenhorst 1859, No. 801**
[CAS ref. 000771]

***Cylindrotheca gracilis* (Brébisson) Grunow emend Reimann & Lewin 1964**, p. 288, 290; pl. 130, fig. 4-6 [CAS ref. 001843]

Distribution (Fig. 232):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Cylindrotheca gracilis*)

***Cymatopleura* W. Smith 1851**, p. 12
[CAS ref. 001528]

***Cymatopleura elliptica* (Brébisson ex Kützing) W. Smith 1851**, p. 13, pl. 3, fig. 10-11 [CAS ref. 001528]

Basionym: *Surirella elliptica* Brébisson ex Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 233):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cymatopleura elliptica* (Brébisson) W. Smith)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cymatopleura elliptica* (Brébisson) W. Smith)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Cymatopleura elliptica*)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Cymatopleura elliptica*)

***Cymatopleura solea* (Brébisson in Brébisson & Godey) W. Smith
1851, p. 12; pl. 3, fig. 9 [CAS ref. 001528]**

Basionym: *Surirella solea* (Brébisson in Brébisson & Godey) Brébisson 1838 [CAS ref. 000161]

Distribution (Fig. 234):

REGION: NORTE

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Cymatopleura solea* (Bréb.) W. Smith)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1909b (as *Cymatopleura solea* (Bréb.) W. Sm.)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cymatopleura solea* (Brébisson) W. Smith)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Cymatopleura solea* (Brébisson) W. Smith)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymatopleura solea*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymatopleura solea* (Bréb.) W. Smith)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymatopleura solea*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymatopleura solea*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymatopleura solea*)

Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Cymatopleura solea*); Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)

- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymatopleura solea*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cymatopleura solea* (Bréb.) W. Smith)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymatopleura solea* (Bréb.) W. Smith); Gil et al. 1989-1990 (as *Cymatopleura solea*)
- Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Cymatopleura solea*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymatopleura solea*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymatopleura solea*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymatopleura solea*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Cymatopleura solea*); Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymatopleura solea*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymatopleura solea* (Brébisson) W. Smith)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymatopleura solea* (Bréb.) W. Smith)

- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymatopleura solea* (Bréb.) W. Smith)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymatopleura solea*)
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymatopleura solea* (Breb.) W. Sm.)
- Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Ponte de Rol, Sizandro River
Reference: Zimmermann 1909b (as *Cymatopleura solea* (Bréb.) W. Sm.)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Cymatopleura solea* (Brébisson) W. Smith);
Gil et al. 1991 (as *Cymatopleura solea*); Almeida & Gil 2001 (as
Cymatopleura solea (Brébisson) W. Smith)
- REGION: ALENTEJO
- Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984b (as *Cymatopleura solea*); Oliveira 1987 (as
Cymatopleura solea (Breb.) W. Sm.)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Cymatopleura solea*); Oliveira
1996 (as *Cymatopleura solea*)
- Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Cymatopleura solea* (Brébisson) W. Smith)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Cymatopleura solea* (Breb.) W. Sm.)
- Subregion: Alto Alentejo
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Cymatopleura solea*)
- Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cymatopleura solea*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cymatopleura solea*)

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Cymatopleura solea* (Bréb.) W. Sm., fossil)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Cymatopleura solea*); Brito & Andrade 1992 (as *Cymatopleura solea*)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Cymatopleura solea*)

***Cymatopleura solea* var. *apiculata* (W. Smith) Ralfs in Pritchard 1861, p. 793 [CAS ref. 001063]**

Basionym: *Cymatopleura apiculata* W. Smith 1853 [CAS ref. 000863]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymatopleura solea* (Brébisson) W. Smith var. *apiculata* (W. Smith) Ralfs)

***Cymatosira* Grunow 1862, p. 377 (63)
[CAS ref. 000428]**

***Cymatosira belgica* Grunow in Van Heurck 1881, pl. 45, fig. 38-41
[CAS ref. 001035]**

Distribution (Fig. 235):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Cymatosira belgica*, fossil)

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Cymatosira belgica* Grunow, fossil)

***Cymbella* C. Agardh 1830**, p. 1
[CAS ref. 000105]

***Cymbella aequalis* var. *subaequalis* (Grunow in Van Heurck) Ant. Mayer 1919**, p. 208; pl. 9, fig. 58, 59 [CAS ref. 000637]

Basionym: *Cymbella subaequalis* Grunow in Van Heurck 1882-1885 [CAS ref. 000896]

Distribution (Fig. 236):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Porto Santo (Porto Santo Island)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Cymbella subaequalis* Grun.)

***Cymbella affinis* Kützing 1844**, p. 80; pl 6, fig. 15 [CAS ref. 000595]

Distribution (Fig. 237):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Not Specified
Reference: Colmeiro 1889 (as *Cymbella affinis* Kg.)
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Cymbella affinis* Kützing)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Cymbella affinis* Kützing)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella affinis*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas, Coval da M6 Mine, Coval da M6 Stream (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella affinis* Kützing)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella affinis*)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella affinis*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella affinis* Kützing); Gil et al. 1989-1990 (as *Cymbella affinis*)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella affinis*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella affinis*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella affinis*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella affinis*)
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella affinis* Kützing)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella affinis* Kützing)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella affinis* Kützing)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella affinis* Kützing); Gil et al. 1989-1990 (as *Cymbella affinis*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella affinis* Kützing)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Cymbella affinis* Kützing); Gil et al. 1989-1990 (as *Cymbella affinis*)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Cymbella affinis*)

Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella affinis*)

Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Frade 1961 (as *Cymbella affinis*); Cabeçadas et al. 1980 (as *Cymbella affinis*)

Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Cymbella affinis* Kütz.)

Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella affinis*)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Cymbella affinis* Kützing); Gil et al. 1991 (as *Cymbella affinis*); Almeida 1998 (as *Cymbella affinis* Kützing)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Cymbella affinis*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

References: Oliveira 1984a (as *Cymbella affinis*); Oliveira 1987 (as *Cymbella affinis* Kz.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Cymbella affinis*)

Subregion: Baixo Alentejo

Municipality: Ferreira do Alentejo (District: Beja)

Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Cymbella affinis*)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella affinis* Kütz., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Cymbella affinis* Ktz., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Cymbella affinis* Ktz., fossil)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella affinis* Kütz., fossil)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Cymbella affinis*)

Subregion: Not Specified

Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)

Reference: Gerhardt et al. 2008 (as *Cymbella affinis* Kützing)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)

Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Cymbella affinis*)

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Cymbella affinis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Cymbella affinis* Kütz.); Bourrelly & Manguin 1946a (as *Cymbella affinis* Kütz.)
Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Cymbella affinis* Kütz.); Bourrelly & Manguin 1946a (as *Cymbella affinis* Kütz.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: O'Meara 1874 (as *Cymbella affinis*); Dyer 1875 (as *Cymbella affinis* Kütz.); Holmboe 1901 (as *Cymbella affinis* Kütz.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Cymbella affinis* Kütz.); Bourrelly & Manguin 1946a (as *Cymbella affinis* Kütz.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Cymbella affinis* Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Cymbella affinis* Kützing)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella affinis* Kützing var. *affinis*)

***Cymbella amphioxys* (Kützing) Cleve 1894**, p. 164 [CAS ref. 000232]

Basionym: *Navicula amphioxys* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 238):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Cymbella amphioxys* (Kütz.) Grun., fossil)

***Cymbella aspera* (Ehrenberg) Cleve 1894**, p. 175 [CAS ref. 000232]

Basionym: *Cocconema asperum* Ehrenberg 1840a [CAS ref. 000293]

Nomenclatural synonym: *Cymbella lanceolatum* var. *aspera* (Ehrenberg) Brun 1880 [CAS ref. 000174]

Distribution (Fig. 239):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cymbella aspera* (Ehr.) Cleve)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cymbella aspera* (Ehr.) Cleve)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Cymbella aspera* (Ehr.) Cleve)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aspera* Peragallo)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aspera* Peragallo)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aspera* Peragallo)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aspera* Peragallo)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aspera* Peragallo)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella aspera* (Ehrenberg) Peragallo)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella aspera* (Ehrenberg) Peragallo)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella aspera* (Ehrenberg) Peragallo)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella aspera* Peragallo); Gil et al. 1989-1990 (as *Cymbella aspera*)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella aspera* (Ehrenberg) Peragallo)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella aspera* (Ehrenberg) Peragallo)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Cymbella aspera*); Almeida 1998 (as *Cymbella aspera* (Ehrenberg) Peragallo)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella aspera*)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella aspera* (Ehrenberg) Cleve)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella aspera* (Ehrenberg) Cleve)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Sobral do Campo
Reference: Zimmermann 1909b (as *Cymbella lanceolata* (Ehr.) Kirchn. var. *aspera* (Ehr.) Brun.)
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella aspera* Peragallo)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Cymbella aspera* (Ehr.) Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: Calado 1990 (as *Cymbella aspera* (Ehrenberg) Cleve)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella aspera* (Ehr.) Cleve, fossil)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella aspera* (Ehrenberg) H. Peragallo)

***Cymbella cesatii* f. *minor* Manguin 1942**, p. 148; pl. 4, fig. 66 [CAS ref. 000623]

Distribution (Fig. 240):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Cymbella cesatii* (Rabh.) Grun. fo. *minor*);
Bourrelly & Manguin 1946a (as *Cymbella cesatii* (Rabh.) Grun. fo. *minor*)

Site: Ribeira Quente

References: Manguin 1942 (as *Cymbella cesatii* (Rabh.) Grun. fo. *minor*);
Bourrelly & Manguin 1946a (as *Cymbella cesatii* (Rabh.) Grun. fo. *minor*)

***Cymbella cistula* (Hemprich in Hemprich & Ehrenberg) Kirchner 1878**, p. 189 [CAS ref. 000561]

Basionym: *Bacillaria cistula* Ehrenberg in Hemprich & Ehrenberg 1828 [CAS ref. 000474]

Distribution (Fig. 241):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Mondego River (Mondego Basin)

Reference: Zimmermann 1906 (as *Cymbella Cistula* (Hempr.) Kirchn.)

- Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Cymbella cistula* (Ehr.) Cleve)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow); Gil et al. 1989-1990 (as *Cymbella cistula*)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella cistula*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow); Gil et al. 1989-1990 (as *Cymbella cistula*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
- Municipality: Anadia (District: Aveiro)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella cistula*)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella cistula* (Ehrenberg) Kirchner)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella cistula* (Ehrenberg) Kirchner)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow); Gil et al. 1989-1990 (as *Cymbella cistula*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella cistula* (Ehrenberg) Kirchner)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella cistula*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella cistula* (Ehrenberg) Kirchner)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Cymbella cistula*); Almeida 1998 (as *Cymbella cistula* (Ehrenberg) Kirchner)

- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Cymbella cistula* (Hemprich) Grunow)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow); Gil et al. 1989-1990 (as *Cymbella cistula*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cistula* (Hemprich) Grunow)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Cymbella cistula*)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Cymbella cistula* (Hempr e Ehr.) Kirchn.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cymbella cistula* Hempr.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cymbella cistula* Hempr.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cymbella cistula* Hempr.)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Cymbella cistula* (Hemprich) Grunow); Gil et al. 1991 (as *Cymbella cistula*)

REGION: ALENTEJO

Subregion: Alentejo Central

- Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Cymbella cistula*)
- Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

- References: Oliveira & Monteiro 1995 (as *Cymbella cistula*); Oliveira 1996 (as *Cymbella cistula*)
- Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: Carvalhal diatomite
 Reference: Silva 1949 (as *Cymbella cistula* (Hempr.) Kirchn., fossil)
- Municipality: Not Specified
 Site: Sado River (Sado Basin)
 Reference: Monteiro et al. 1995 (as *Cymbella cistula*)
- Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Cymbella cistula*)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Cymbella cistula*)
- Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Cymbella cistula*)
- Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Roxo Reservoir, Roxo Stream (Sado Basin)
 Reference: Oliveira 1976 (as *Cymbella cistula* Hempr.)
- Subregion: Lezíria do Tejo
 Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Cymbella cistula*)
- Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Cymbella cystula* (Hempr.) Kirchn., fossil)
- REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: INAG I.P. 2008 (as *Cymbella cistula* (Ehrenberg) Kirchner)

***Cymbella cistula* var. *maculata* (Kützing) Van Heurck 1885**, p. 64; pl. 2, fig. 16 [CAS ref. 001040]

Basionym: *Frustulia maculata* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 242):

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
Reference: Zimmermann 1909b (as *Cymbella cistula* (Hempr.) Kirchn.
var. *maculata* (Kuetz.) Grun.)

Subregion: Baixo Vouga
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella cistula* (Hemprich) Grunow var.
maculata (Kg.) Van Heurck)

***Cymbella crassa* (Grunow) Krammer 2002**, p. 121 [CAS ref. 009520]

Basionym: *Cymbella gastroides* var. *crassa* Grunow 1882 [CAS ref. 000442]

Nomenclatural synonym: *Cymbella cistula* var. *crassa* (Grunow) Cleve-Euler 1932 [CAS ref. 000248]

Distribution (Fig. 243):

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Cymbella cistula* v. *crassa* Cleve)

***Cymbella cuspidata* Kützing 1844**, p. 79; pl. 3, fig. 40 [CAS ref. 000595]

Distribution (Fig. 244):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella cuspidata* Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella cuspidata* Kützing)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella cuspidata* Kützing)
Municipality: Anadia (District: Aveiro)

- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella cuspidata* Kützing)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cuspidata*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella cuspidata* Kützing)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella cuspidata* Kützing)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Caldeirão
References: Carvalho 1913 (as *Cymbella cuspidata* Kuetz.); Santos & Carvalho 2001 (as *Cymbella cuspidata* Kuetz.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella cuspidata* Kützing)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella cuspidata* Kützing)
- Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal do Feijão, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella cuspidata* Kütz.)
- Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cymbella cuspidata* Kütz.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cymbella cuspidata* Kütz.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cymbella cuspidata* Kütz.)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella cuspidata* Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Cyclotella cuspidata* Ktz.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Cyclotella cuspidata* Ktz., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cyclotella cuspidata* Kützing)

***Cymbella cuspidata* var. *naviculiformis* (Auerswald in Rabenhorst)
Rabenhorst 1864, p. 78 [CAS ref. 000775]**

Distribution (Fig. 245):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Site: Caldeirão

References: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.); Santos & Carvalho 2001 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Site: Diz River

Reference: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.); Santos & Carvalho 2001 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Site: Vela

Reference: Carvalho 1913 (as *Cymbella cuspidata* Kuetz. var. *naviculiformis* Auers.)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Santa Cruz

Reference: Zimmermann 1910 (as *Cymbella cuspidata* Kütz. var. *naviculaeformis* Auersw.)

***Cymbella cymbiformis* C. Agardh 1830, p. 10 [CAS ref. 000105]**

Distribution (Fig. 246):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cymbella cymbiformis* Agardh)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Cymbella cymbiformis* Agardh)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cymbiformis* Agardh)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cymbiformis* Agardh)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cymbiformis* Agardh)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cymbiformis* Agardh)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cymbiformis* Agardh)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cymbiformis* Agardh)

Municipality: Anadia (District: Aveiro)

- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)
- Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella cymbiformis* Agardh)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella cymbiformis* Agardh); Gil et al. 1989-1990 (as *Cymbella cymbiformis*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella cymbiformis*)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella cymbiformis* (Agardh & Kützing) Van Heurck)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Cymbella cymbiformis* (Kuetz.) Bréb.); Santos & Carvalho 2001 (as *Cymbella cymbiformis* (Kuetz.) Bréb.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella cymbiformis* Agardh)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella cymbiformis* Agardh); Gil et al. 1989-1990 (as *Cymbella cymbiformis*)
- Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Cymbella cymbiformis*)
- Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (as *Cymbella cymbiformis* (Kütz) V.H.)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cymbella cymbiformis* Ehr.)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Cymbella cymbiformis* Ehr.)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella cymbiformis* (Kütz.) Bréb., fossil)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Cymbella cymbiformis*)

Subregion: Pinhal Interior Sul

Municipality: Mação (District: Santarém)

Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Cymbella cymbiformis*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Cymbella cymbiformis* Agardh)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Cymbella cymbiformis*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Cymbella cymbiformis*); Oliveira 1987 (as *Cymbella cymbiformis* Ehr.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

Reference: Oliveira & Monteiro 1995 (as *Cymbella cymbiformis*);
Oliveira 1996 (as *Cymbella cymbiformis*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Cymbella cymbiformis*)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Cymbella cymbiformis* (Agardh?) Kützing)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Cymbella cymbiformis*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cymbella cymbiformis* Ehr.)
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Cymbella Cymbiformis*)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cymbella cymbiformis* Ehr.)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Cymbella cymbiformis* Ehr.)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cymbella cymbiformis* (Kütz.) Bréb., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Cymbella cymbiformis* (Kuetz.) Bréb.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Cymbella cymbiformis* C. Agardh)

Formatada: Portug
(Portugal)

***Cymbella cymbiformis* var. *jimboi* (Pantocsek) Cleve-Euler 1955**, p. 160; fig. 1246 f, 1245 o [CAS ref. 001043]

Basionym: *Cymbella jimboi* Pantocsek 1892 [CAS ref. 001034]

Distribution (Fig. 247):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (as *Cymbella cymbiformis* var. *jimboi* (Pant) A. Cl.)

***Cymbella cymbiformis* var. *parva* (W. Smith) Van Heurck 1885**, p. 64; pl. 2, fig. 14 [CAS ref. 001040]

Basionym: *Cocconema parvum* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 248):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Cymbella cymbiformis* (Kuetz.) Bréb. var. *parva* (W. Sm.))

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Cymbella cymbiformis* (Kuetz.) Bréb. var. *parva* (W. Sm.)); Santos & Carvalho 2001 (as *Cymbella cymbiformis* (Kuetz.) Bréb. var. *parva* (W. Sm.))

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel

Reference: Zimmermann 1910 (as *Cymbella cymbiformis* (Kuetz.) Bréb. var. *parva* (W. Sm.) V. H.)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Zimmermann 1910 (as *Cymbella cymbiformis* (Kuetz.) Bréb. var. *parva* (W. Sm.) V. H.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Cymbella cymbiformis* var. *parva*)

***Cymbella dicephala* (Ehrenberg) Holmboe 1901, p. 278 [CAS ref.-]**

Distribution (Fig. 249):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Cymbella dicephala* (Ehr.))

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Cymbella dicephala* (Ehr.))

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cymbella dicephala* (Ehrenberg) Holmboe)

***Cymbella ehrenbergii* Kützing 1844**, p. 79; pl. 6, fig. 11 [CAS ref. 000595]

Distribution (Fig. 250):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cubo

Reference: Carvalho 1913 (as *Cymbella ehrenbergii* Kuetz.)

Site: Nueme

Reference: Carvalho 1913 (as *Cymbella ehrenbergii* Kuetz.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella ehrenbergii* Kütz., fossil)

***Cymbella excisa* Kützing 1844**, p. 80; pl. 6, fig. 17 [CAS ref. 000595]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella excisa* Kützing var. *excisa*)

***Cymbella gastroides* (Kützing) Kützing 1844**, p. 79; pl. 6, fig. 4 b [CAS ref. 000595]

Basionym: *Frustulia gastroides* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 251):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1909b (as *Cymbella gastroides* Kuetz.)

***Cymbella gracilis* (Ehrenberg) Kützing 1844**, p. 79; pl. 6, fig. 9
[CAS ref. 000595]

Basionym: *Cocconema gracile* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 252):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing);
Nunes 2007 (as *Cymbella gracilis* (Ehrenberg) Kützing)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella gracilis* (Ehrenberg) Kützing)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al.
1989-1990 (as *Cymbella gracilis*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al.
1989-1990 (as *Cymbella gracilis*); Almeida 1998 (as *Cymbella gracilis*
(Ehrenberg) Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al.
1989-1990 (as *Cymbella gracilis*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al.
1989-1990 (as *Cymbella gracilis*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al.
1989-1990 (as *Cymbella gracilis*)

- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
- Site: São João do Monte, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Cymbella gracilis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cymbella gracilis* (Rabh.) Grunow); Gil et al. 1989-1990 (as *Cymbella gracilis*)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Cymbella gracilis* (Ehr.) Kützing)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Cymbella gracilis* (Ehr.) Kützing)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Vouga Basin
 Reference: Almeida & Gil 2000 (as *Cymbella gracilis* (Ehrenberg) Kützing)
 Site: Not Specified
 References: Calado 1990 (as *Cymbella gracilis* (Ehrenberg) Kützing); Gil et al. 1991 (as *Cymbella gracilis*); Almeida & Gil 2001 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- REGION: AUTONOMOUS REGION OF AZORES**
 Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Falca (Terceira Island)
 Reference: Gonçalves 1996 (as *Cymbella gracilis* (Ehrenberg) Kützing)
 Site: Lagoa da Joaninha
 Reference: Gonçalves 1996 (as *Cymbella gracilis* (Ehrenberg) Kützing)
 Municipality: Praia da Vitória (Terceira Island)
 Site: Lagoa do Boi
 Reference: Gonçalves 1996 (as *Cymbella gracilis* (Ehrenberg) Kützing)
- REGION: Not Specified**

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella gracilis* (Ehr.) Kützing)

***Cymbella gracilis* var. *capitata* Willi Krieger 1930**, p. 143; pl. 4, fig. 28 [CAS ref. 001736]

Distribution (Fig. 253):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Cymbella gracilis* var. *capitata*)

***Cymbella gracilis* var. *laevis* (Naegeli in Kützing) Rabenhorst 1864**, p. 81 [CAS ref. 000775]

Basionym: *Cymbella laevis* Naegeli in Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 254):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Cyclotella gracilis* var. *laevis* Ktz.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Cyclotella gracilis* var. *laevis* Ktz., fossil)

***Cymbella gracilis* var. *rotundata* Willi Krieger 1930**, p. 143; pl. 4, fig. 2 [CAS ref. 001736]

Distribution (Fig. 255):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Cymbella gracilis* var. *rotundata*)

***Cymbella helvetica* Kützing 1844**, p. 79; pl. 6, fig. 13 [CAS ref. 000595]

Distribution (Fig. 256):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Cymbella helvetica*); de Figueiredo et al. 2006 (as *Cymbella helvetica* Kützing)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cymbella helvetica* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella helvetica* Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella helvetica* Kützing)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cymbella helvetica* Kützing)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Cymbella helvetica* Kützing)

***Cymbella heteropleura* (Ehrenberg) Kützing 1844**, p. 79 [CAS ref. 000595]

Basionym: *Pinnularia heteropleura* Ehrenberg 1840c [CAS ref. 006085]

Distribution (Fig. 257):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella heteropleura* (Ehrenberg) Kützing)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)
Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella heteropleura* (Ehr.) Kützing)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Cymbella heteropleura*)

***Cymbella hungarica* (Grunow in Schmidt 1875b) Pantocsek 1902**, p. 22 (21); pl. 2, fig. 24 [CAS ref. 000715]

Basionym: *Cocconema hungaricum* Grunow in Schmidt 1875b [CAS ref. 012443]

Distribution (Fig. 258):

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Cymbella hungarica* (Grunow) Pantocsek)

***Cymbella hustedtii* Krasske 1923a**, p. 204; fig. 11 [CAS ref. 000579]

Distribution:

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Cymbella hustedtii* Krasske)

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cymbella hustedtii* Krasske)

***Cymbella laevis* Nägeli in Rabenhorst 1863, p. 21 [CAS ref. 001481]**

Distribution (Fig. 259):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella laevis* Naeg., fossil)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Cymbella levis* Naeg., fossil)

***Cymbella lanceolata* (C. Agardh) C. Agardh 1830, p. 9 [CAS ref. 000105]**

Basionym: *Frustulia lanceolata* C. Agardh 1827 [CAS ref. 000103]

Distribution (Fig. 260):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Cymbella lanceolata* (Ehrenberg) Van Heurck)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Cymbella lanceolata*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

- Reference: Almeida 1998 (as *Cymbella lanceolata* (Ehrenberg) Van Heurck)
- Site: Bolfiar, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Cymbella lanceolata* (Ehrenberg) Van Heurck)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Cymbella lanceolata* (Ehrenberg) Van Heurck)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Cymbella lanceolata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Cymbella lanceolata* (Ehrenberg) Van Heurck)
- Site: Perrães, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Cymbella lanceolata*); Almeida 1998 (as *Cymbella lanceolata* (Ehrenberg) Van Heurck)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
- Reference: Calado 1991 (as *Cymbella lanceolata* (Ehrenberg) Van Heurck)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella lanceolata* (Ehr.) Van Heurck)
- Subregion: Médio Tejo
- Municipality: Torres Novas (District: Santarém)
- Site: Almonda River (Tagus Basin)
- References: Zimmermann 1906 (as *Cymbella lanceolata* (Ehr.) Kirchn.); Oliveira & Caldas 1970 (as *Cymbella lanceolata* (Ehr.) Brun)

Site: Casal do Feijão, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella lanceolata* Ehr.)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella lanceolata* Ehr.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella lanceolata* Ehr.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Cymbella lanceolata* (Ehrenberg) Van
Heurck); Gil et al. 1991 (as *Cymbella lanceolata*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Cymbella lanceolata*)
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Cymbella lanceolata* (Ehr.)
Kirchn., fossil)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Cymbella lanceolata* (Ehr.) V.H.)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cymbella lanceolata* (Ehr.) Kirchn., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Cymbella lanceolata* (Agardh) Agardh)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella lanceolata* (Agardh?) Agardh
var. *lanceolata*)

Cymbella lanceolata var. *boeckii* (Ehrenberg) P.G. Richter 1914, v. 14: p. 114 [CAS ref. -]

Basionym: *Cocconema boeckii* Ehrenberg 1835 [CAS ref. 000284]

Nomenclatural synonym: *Brébissonia boeckii* (Ehrenberg) Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 261):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (as *Brebissónia boeckii* (Ehr.) Grun.)

Cymbella lancettula (Krammer) Krammer 2002, p. 43 [CAS ref. 009520]

Basionym: *Cymbella tumidula* var. *lancettula* Krammer in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]

Formatada: Inglês Unido

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella tumidula* Grunow var. *lancettula* Krammer)

Cymbella leptoceras (*leptoceros*) (Ehrenberg) Kützing 1844, p. 79; pl. 6, fig. 14 [CAS ref. 000595]

Basionym: *Cocconema leptoceros* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 262):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella leptoceros* (Ehrenberg) Kützing)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cymbella leptoceros* (Ehrenberg) Kützing)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella leptoceros* (Ehrenberg) Kützing)

***Cymbella maculata* Kützing 1844**, p. 79; pl. 6, fig. 2 [CAS ref. 000595]

Distribution (Fig. 263):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
Reference: De Toni 1887 (as *Cymbella maculata* Kütz.)
Site: Not Specified
Reference: Colmeiro 1889 (as *Cymbella maculata* Kg.)

***Cymbella obtusa* W. Gregory 1856**, p. 5; pl. 1, fig. 19 [CAS ref. 000397]

Distribution (Fig. 264):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Cymbella obtusa* Greg.); Santos & Carvalho 2001 (as *Cymbella obtusa* Greg.)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Barro
Reference: Zimmermann 1910 (as *Cymbella obtusa* Greg.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Cyclotella obtusa* Greg.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Cyclotella obtusa* Greg)

***Cymbella obtusiuscula* Kützing 1844**, p. 79; pl. 3, fig. 68 [CAS ref. 000595]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cymbella obtusiuscula* (Kützing) Grunow)

***Cymbella parva* (W. Smith) Wolle 1890**, pl. 7, fig. 19 [CAS ref. 000916]

Basionym: *Cocconema parvum* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 265):

REGION: NORTE
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Cymbella parva* (W. Smith) Cleve)

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Cymbella parva* (W. Smith) Cleve, fossil)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cymbella parva* (W. Smith) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Cymbella parva* (W. Sm.) Cl.)
Municipality: Povoação (São Miguel Island)
Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Cymbella parva* (W. Sm.) Cl.)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Cyclotella parva* Sm.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Cyclotella parva* W.M. Smith);
Gonçalves et al. 2010 (as *Cymbella parva* (W. Smith) Cleve)

***Cymbella perpusilla* var. *azorica* Manguin 1942**, p. 148; pl. 4, fig. 67
[CAS ref. 000623]

Distribution (Fig. 266):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)
Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)
Site: Pico Verde
References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Comprida
References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)
Site: Ribeira Grande
References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)
Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Cymbella perpusilla* A. Cleve var. *azorica*); Bourrelly & Manguin 1946a (as *Cymbella perpusilla* A. Cleve var. *azorica*)

***Cymbella reinhardtii* Grunow in Schmidt 1875b**, pl. 9, fig. 27 [CAS ref. 012443]

Distribution (Fig. 267):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

References: Silva 1946a (as *Cymbella reinhardtii* Grun., fossil); Silva 1946b (as *Cymbella reinhardtii* Grun., fossil)

***Cymbella simonsenii* Krammer in Krammer & Lange-Bertalot 1985**, p. 33-34; pl. 7, fig. 1-9 [CAS ref. 006263]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella simonsenii* Krammer)

***Cymbella tumida* (Brébisson in Kützing) Van Heurck 1882-1885**, p. 64; pl. 2, fig. 10 [CAS ref. 000896]

Basionym: *Cocconema tumidum* (*tumida*) Brébisson in Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 268):

REGION: NORTE

Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Cymbella tumida* (Ehrenberg) Van Heurck)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Cymbella tumida* (Brébisson) Van Heurck)

Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Cymbella tumida* (Brébisson) Van Heurck)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella tumida*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck)

Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella tumida*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella tumida*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella tumida*)
Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Cymbella tumida*); Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)

Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Cymbella tumida* (Bréb.) Van Heurck)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)

Formatada: Portug
(Portugal)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck); Gil et al. 1989-1990 (as *Cymbella tumida*)
- Site: Vagueira, Canal de Mira
 Reference: Resende et al. 2005 (as *Cymbella tumida*)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella tumida*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)
- Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Cymbella tumida*); Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella tumida*)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella tumida* (Brébisson) Van Heurck)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Cymbella tumida* (Brébisson) Van Heurck)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck)
- Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck); Gil et al. 1989-1990 (as *Cymbella tumida*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella tumida* (Bréb.) Van Heurck)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cymbella tumida*)
- Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Cymbella tumida* Bréb.)

Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Reference: Silva 1946b (as *Cymbella tumida* (Bréb.) V. H., fossil)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Cymbella tumida* (Brébisson) Van Heurck)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Cymbella tumida* (Brébisson) Van Heurck);
Gil et al. 1991 (as *Cymbella tumida*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella tumida*)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Cymbella tumida* (de Brébisson) Van Heurck)

Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella tumida*)

Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cymbella tumida*)

Subregion: Lezíria do Tejo
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella tumida*)

Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella tumida*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Cymbella tumida* (Bréb.) Heurck)

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Cymbella tumida* (Brébisson) van Heurck)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella tumida* (Brébisson) Van Heurck)

***Cymbella tumidula* Grunow in Schmidt 1875b**, pl. 9, fig. 33 [CAS ref. 012443]

Distribution:

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella tumidula* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cymbella tumidula* Grunow)

***Cymbella turgida* W. Gregory 1856**, p. 5; pl. 1, fig. 18 [CAS ref. 000397]

Synonym: *Encyonema elginense* (Krammer) D.G. Mann 1990 [CAS ref. 003245], according to Krammer 1997a, p. 111

Distribution (Fig. 269):

REGION: NORTE
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Cymbella turgida* (Greg.) Cleve)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)

- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve); Gil et al. 1989-1990 (as *Cymbella turgida*)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella turgida*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve); Gil et al. 1989-1990 (as *Cymbella turgida*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve); Gil et al. 1989-1990 (as *Cymbella turgida*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella turgida*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella turgida*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve); Gil et al. 1989-1990 (as *Cymbella turgida*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve); Gil et al. 1989-1990 (as *Cymbella turgida*)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella turgida*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella turgida*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella turgida*)

- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella turgida*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella turgida* (Gregory) Cleve)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve); Gil et al. 1989-1990 (as *Cymbella turgida*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella turgida* (Greg.) P. Cleve)
- Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Cymbella turgida* (Greg.) Cleve, fossil)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Cymbella turgida* (Gregory) Cleve); Gil et al. 1991 (as *Cymbella turgida*)
- REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Carvalhal diatomite
Reference: Silva 1949 (as *Cymbella turgida* (Greg.) Cleve, fossil)
- Municipality: Not Specified
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Cymbella turgida*)
- Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Cymbella turgida* (Greg.) Cleve, fossil)
- Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cymbella turgida*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cymbella turgida*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Cymbella turgida* (Greg.) Cleve)
Site: Not Specified
Reference: Trelease 1897 (as *Cymatopleura turgida* Kütz.)
Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Cymbella turgida* (Gregory) Cleve)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Cymbella turgida* (Greg.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella turgida* (Greg.) Cleve)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Cymbella turgida* (Greg.) Cleve)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Cymbella turgida* (Greg.) Cleve)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Cymbella turgida* (Greg.) Cleve)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Cymbella turgida* (Greg.) Cleve)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Cymbella turgida* (Greg.) Cleve)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Cymbella turgida* (Greg.) Cleve)

***Cymbella turgidula* Grunow in Schmidt 1875b, pl. 9, fig. 23-26**
[CAS ref. 012443]

Distribution (Fig. 270):

REGION: ALENTEJO
Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Cymbella turgidula* Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella turgidula* Grunow 1875 in A. Schmidt & al. var. *turgidula*)

***Cymbella* sp.**

Distribution (Fig. 271):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Bragança (District: Bragança)
Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)
Reference: Geraldès & Boavida 2005 (as *Cymbella* sp.)
Municipality: Montalegre (District: Vila Real)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Cymbella* spp.)
Subregion: Cávado
Municipality: Esposende (District: Braga)
Site: Marachão, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Cymbella* sp.)
Municipality: Not Specified
Site: Homem River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Cymbella* sp.)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Cymbella* sp.)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Cymbella* sp.)
Municipality: Melgaço (District: Viana do Castelo)
Site: São Gregório, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Cymbella* sp.)
Municipality: Valença (District: Viana do Castelo)
Site: Valença, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Cymbella* sp.)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Cymbella* sp.)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
Site: Barragem de Covas, Coura River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Cymbella* sp.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella* spp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella* spp.)

Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Cymbella* spp.)

Municipality: Torres Novas (District: Santarém)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella* sp.)

Subregion: Oeste

Municipality: Alenquer (District: Lisboa)
Site: Alenquer, Alenquer reservoir
Reference: Frade 1941b (as *Cymbella* sp.)

Site: Alenquer, Alenquer River (Tagus Basin)
Reference: Frade 1941a (as *Cymbella* sp.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Cymbella* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Cymbella* sp.)

Municipality: Sintra (District: Lisboa)
Site: Mula Reservoir, Mula Stream (Western Streams Basin)
Reference: Ferreira 1986 (as *Cymbella* spp.)

Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Cymbella* spp.); Rodrigues & Moita 1979b (as *Cymbella* spp.); Fernandes et al. 1987 (as *Cymbella* spp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

- Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1987 (as *Cymbella* spp.)
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Cymbella* sp.)
- Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Cymbella* spp.)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Cymbella* spp.)
- Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella* spp.)
- Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Cymbella* sp.)
- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella* spp.)
- Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella* spp.)
- Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Cymbella* sp.)
- Subregion: Baixo Alentejo
- Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Cymbella* sp.)
- Municipality: Ourique (District: Beja)
Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
Reference: Oliveira 1984a (as *Cymbella* sp.)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Cymbella* spp.); Oliveira et al. 1989 (as *Cymbella* sp.)
- Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella* spp.)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Cymbella* spp.); Brito & Andrade 1992 (as *Cymbella* spp.)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1987 (as *Cymbella* spp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Cymbella* sp.)

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Cymbella* sp.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella* species)

***Cymbopleura* (Krammer) Krammer 1999, p. 292**
[CAS ref. 009348]

***Cymbopleura amphicephala* (Nägeli) Krammer 2003, p. 70 [CAS
ref. 011692]**

Basionym: *Cymbella amphicephala* Nägeli in Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 272):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Cymbella amphicephala* Naegeli)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Cymbella amphicephala* Naeg.); Santos &
Carvalho 2001 (as *Cymbella amphicephala* Naeg.)

Site: Diz River
Reference: Carvalho 1913 (as *Cymbella amphicephala* Naeg.)
Site: Guarda
Reference: Carvalho 1913 (as *Cymbella amphicephala* Naeg.)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Cymbella amphicephala* Naeg.)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella amphicephala* Naeg.)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella amphicephala* Naeg.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Cymbella amphicephala* Naeg.)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Coutada, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Cymbella amphicephala*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Cymbella amphicephala*)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1984a (as *Cymbella amphicephala*)
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Cymbella amphicephala*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Cymbella amphicephala*)
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Cymbella amphicephala*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cymbella amphicephala* Naeg.)
Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Cymbella amphicephala*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Cymbella amphicephala*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Cymbella amphicephala* Naegeli =
Cymbopleura amphicephala Krammer)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Cymbella amphicephala* Naegeli =
Cymbopleura amphicephala Krammer)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Cymbella amphicephala* Naeg.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Cymbopleura amphicephala*
Krammer)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Cymbella amphicephala* Naeg.); Bourrelly
& Manguin 1946a (as *Cymbella amphicephala* Naeg.)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Cymbella dicephala* (Ehrenberg)
Holmboe)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Cymbella dicephala* (Ehrenberg)
Holmboe)
Site: Not Specified
Reference: Gonçalves 2008 (as *Cymbopleura amphicephala* Krammer)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella amphicephala* Naegeli)

***Cymbopleura anglica* (Lagerstedt) Krammer 2003**, p. 10 [CAS ref.
011692]

Basionym: *Cymbella anglica* Lagerstedt 1873 [CAS ref. 000597]

Distribution (Fig. 273):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Cymbella anglica* Lagerst.)

Site: Diz River

Reference: Carvalho 1913 (as *Cymbella anglica* Lagerst.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Cymbella anglica* Lagerst.)

***Cymbopleura hauckii* (Van Heurck) Krammer 2003**, p. 40 [CAS ref. 011692]

Nomenclatural synonym: *Cymbella hauckii* Van Heurck in Hauck & Richter 1886-1894 [CAS ref. 001257]

Distribution (Fig. 274):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Cymbella hauckii* V. H., fossil)

Formatada: Portug
(Portugal)

***Cymbopleura incerta* (Grunow) Krammer 2003**, p. 90 [CAS ref. 011692]

Basionym: *Cymbella incerta* (Grunow in Cleve & Möller) Cleve 1894 [CAS ref. 000232]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Cymbella incerta* Grunow)

***Cymbopleura lata* (Grunow) Krammer 2003**, p. 20 [CAS ref. 011692]

Basionym: *Cymbella lata* Cleve 1894, p. 165; pl. 4, fig. 27 [CAS ref. 000232]

Distribution (Fig. 275):

REGION: CENTRO

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cymbella lata* Grunow)

***Cymbopleura naviculiformis* (Auerswald ex Heiberg) Krammer 2003**, p. 56 [CAS ref. 011692]

Basionym: *Cymbella naviculiformis* Auerswald ex Heiberg 1863 [CAS ref. 000471]

Distribution (Fig. 276):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Cymbella naviculiformis* Auerswald)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Cymbella naviculiformis* Auerswald); Gil et al. 1989-1990 (as *Cymbella naviculiformis*); Almeida 1998 (as *Cymbella naviculiformis* Auerswald)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Cymbella naviculiformis* Auerswald); Gil et al. 1989-1990 (as *Cymbella naviculiformis*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Cymbella naviculiformis* Auerswald)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cymbella naviculiformis* Auerswald); Gil et al. 1989-1990 (as *Cymbella naviculiformis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cymbella naviculiformis* Auerswald); Gil et al. 1989-1990 (as *Cymbella naviculiformis*)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Cymbella naviculiformis* Auerswald)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Cymbella naviculiformis* Auerswald)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Cymbella naviculiformis* Auerswald); Gil et al. 1989-1990 (as *Cymbella naviculiformis*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Cymbella naviculiformis* Auerswald)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Cymbella naviculiformis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella naviculiformis* Auerswald)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Cymbella naviculiformis* Auerswald)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Cymbella naviculiformis*)
 Site: Not Specified
 References: Calado 1990 (as *Cymbella naviculiformis* Auerswald); Gil et al. 1991 (as *Cymbella naviculiformis*); Almeida & Gil 2001 (as *Cymbella naviculiformis* Auerswald)
 REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella naviculiformis* Auerswald)

***Delicata* Krammer 2003**, p. 110, 164
[CAS ref. 011692]

***Delicata delicatula* (Kützing) Krammer 2003**, p. 113 [CAS ref. 011692]

Basionym: *Cymbella delicatula* Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 277):

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Cymbella delicatula* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Cymbella delicatula* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Cymbella delicatula* Kütz.)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Delicata delicatula* (Kützing) Krammer)

Site: São Jorge Island

References: Johansson 1977 (as *Cymbella delicatula* Kütz.); Gonçalves et al. 2010 (as *Delicata delicatula* (Kützing) Krammer)

***Denticella* Ehrenberg 1838**, p. 210
[CAS ref. 000288]

***Denticella gracilis* Ehrenberg 1840a**, p. 207 [CAS ref. 000293]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Denticella gracilis*)

***Denticula Kützing 1844*, p. 43**
[CAS ref. 000595]

***Denticula crassula* Nägeli in Kützing 1849**, p. 889 [CAS ref. 000596]

Synonyms: *Denticula frigida* Kützing 1844 [CAS ref. 000595], according to Krammer & Lange-Bertalot 1988, p. 139
Denticula tenuis Kützing 1844 [CAS ref. 000595], according to Krammer & Lange-Bertalot 1988, p. 139

Distribution (Fig. 278):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
Reference: Zimmermann 1910 (as *Denticula crassula* Naeg.)

***Denticula elegans* Kützing 1844**, p. 44; pl. 17, fig. 5 [CAS ref. 000595]

Distribution (Fig. 279):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
Reference: Zimmermann 1910 (as *Denticula elegans* Kuetz.)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Denticula elegans* Kützing)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Denticula elegans* Kützing)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Denticula elegans* Kützing)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Denticula elegans* Kützing)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Denticula elegans* Kützing)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Denticula elegans* Kützing)
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Denticula elegans* Kütz., fossil)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Denticula elegans* Kützing)

REGION: ALENTEJO

Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Denticula elegans*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Denticula elegans* Ktz.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Denticula elegans* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Denticula elegans* Kuetz.)

***Denticula frigida* Kützing 1844**, p. 43; pl. 17, fig. 7 [CAS ref. 000595]

Synonyms: *Denticula crassula* Nägeli in Kützing 1849 [CAS ref. 000596], according to Krammer & Lange-Bertalot 1988, p. 139

Denticula tenuis Kützing 1844 [CAS ref. 000595] , according to Krammer & Lange-Bertalot 1988, p. 139

Distribution (Fig. 280):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Denticula frigida*, fossil)

***Denticula kuetzingii* Grunow 1862**, p. 546, 548; pl. 28/12, fig. 27
[CAS ref. 000428]

Nomenclatural synonym: *Nitzschia denticula* Grunow in Cleve & Grunow 1880
[CAS ref. 000241]

Distribution (Fig. 281):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia denticula*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia denticula*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia denticula* Grunow)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia denticula*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia denticula*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia denticula* Grunow)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia denticula* Grunow)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia denticula* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia denticula* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia denticula* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia denticula* Grunow)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia denticula*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia denticula*)
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Nitzschia denticula* Grun.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Nitzschia denticula* Grunow)

REGION: ALGARVE
Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Not Specified
Reference: Krammer & Lange-Bertalot 1988 (as *Denticula kuetzingii* Grunow)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Nitzschia denticula* Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Denticula kuetzingii* Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Denticula kuetzingii* Grunow)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Ponte do Espírito Santo

Reference: Zimmermann 1910-1911 (as *Nitzschia denticula* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Denticula kuetzingii* Grunow var. *kuetzingii*)

***Denticula subtilis* Grunow 1862**, p. 547; pl. 28/12, fig. 36 [CAS ref. 000428]

Distribution (Fig. 282):

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Denticula subtilis* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Denticula subtilis* Grunow)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Denticula subtilis* Grunow)

***Denticula tenuis* Kützing 1844**, p. 43; pl. 17, fig. 8 [CAS ref. 000595]

Synonyms: *Denticula crassula* Nägeli in Kützing 1849 [CAS ref. 000596], according to Krammer & Lange-Bertalot 1988, p. 139

Denticula frigida Kützing 1844 [CAS ref. 000595], according to Krammer & Lange-Bertalot 1988, p. 139

Distribution (Fig. 283):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Denticula tenuis*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Denticula tenuis*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Denticula tenuis* Kützing)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Denticula tenuis* Kützing)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Denticula tenuis*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Denticula tenuis*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Denticula tenuis* Kuetzing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Denticula tenuis* Kützing)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Denticula tenuis* Kützing)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Denticula tenuis* Kützing)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Denticula tenuis* Kütz.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Denticula tenuis* Kütz.)

Subregion: Pinhal Interior Sul

Municipality: Mação (District: Santarém)

Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Denticula tenuis*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Denticula tenuis*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Denticula tenuis*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Denticula tenuis*)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Denticula tenuis* Kütz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Calheta

Reference: Mölder 1947 (as *Denticula tenuis* Kütz.)

Municipality: Horta (Faial Island)

Site: Flamengos

Reference: Holmboe 1901 (as *Denticula tenuis* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Denticula tenuis* Ktz.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Denticula tenuis* Ktz., fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Denticula tenuis* Ktz., fossil)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Denticula tenuis*)

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Denticula tenuis* Kützing, fossil)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Denticula tenuis* Kützing, fossil)

Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Denticula tenuis* Kützing, fossil)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Denticula tenuis* Kützing, fossil)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Denticula tenuis* Kützing, fossil)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Denticula tenuis* Kützing, fossil)
Site: Not Specified
Reference: Gonçalves 2008 (as *Denticula tenuis* Kützing)

***Denticula tenuis* var. *inflata* (W. Smith) Grunow in Van Heurck
1882-1885, p. 159; pl. 49, fig. 32-34 [CAS ref. 000896]**

Basionym: *Denticula inflata* W. Smith 1856 [CAS ref. 001007]

Distribution (Fig. 284):

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Denticula tenuis* var. *inflata*)

***Denticula vanheurcki* Brun 1891, p. 25; pl. 13, fig. 8; pl. 14, fig. 10
[CAS ref. 000176]**

Distribution (Fig. 285):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Denticula vanheurcki* Brun.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Denticula vanheurcki* Brun)

***Denticula* sp.**

Distribution (Fig. 286):

REGION: CENTRO

Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Ferreira 1986 (as *Denticula* sp.)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Denticula* sp.)

***Diademsis Kützing 1844*, p. 109**
[CAS ref. 000595]

***Diademsis biceps* Arnott** [CAS ref. -]

Nomenclatural synonyms: *Navicula contenta* f. *biceps* (Arnott) Hustedt 1930
[CAS ref. 000502]

Diademsis contenta var. *biceps* (Grunow in Van Heurck) Hamilton in Hamilton et al. 1992 [CAS ref. 003248]

Distribution (Fig. 287):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *biceps* Arnott.); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *biceps* Arnott.)

Site: Pico Verde

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *biceps* Arnott.); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *biceps* Arnott.)

Site: Ribeira Quente

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *biceps* Arnott.); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *biceps* Arnott.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *biceps* Arnott.); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *biceps* Arnott.)

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Diadasmus contenta* var. *biceps* (Grunow) Hamilton)

***Diadasmus confervacea* Kützing 1844**, p. 109; pl. 30, fig. 8 [CAS ref. 000595]

Nomenclatural synonym: *Navicula confervacea* (Kützing) Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Navicula confervacea* (Kützing) Grunow); INAG I.P. 2008 (as *Diadasmus confervacea* Kützing)

***Diadasmus contenta* (Grunow ex Van Heurck) D.G. Mann in Round, Crawford & Mann 1990**, p. 666 [CAS ref. 003245]

Basionym: *Navicula contenta* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 288):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula contenta* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula contenta* Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula contenta* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula contenta* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Navicula contenta* Grunow); Gil et al. 1989-1990 (as *Navicula contenta*); Almeida 1998 (as *Navicula contenta* Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula contenta* Grunow); Gil et al. 1989-1990 (as *Navicula contenta*)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes 2007 (as *Diadismis contenta* (Grunow ex V. Heurck) D. G. Mann); Ferreira da Silva et al. 2009 (as *Diadismis contenta* (Grunow ex V. Heurck) Mann)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula contenta* Grunow)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula contenta* Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula contenta* Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)

- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula contenta* Grunow)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula contenta* Grunow)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula contenta* Grunow)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula contenta*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Diadsmis contenta* (Grunow ex V. Heurck) D. G. Mann)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula contenta* Grunow)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula contenta* Grunow)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Navicula contenta* Grunow)
- Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula contenta*); Almeida & Gil 2001 (as *Navicula contenta* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Navicula contenta* Grunow)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Navicula contenta* Grun.); Bourrelly &

Manguin 1946a (as *Navicula contenta* Grun.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula contenta*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula contenta*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Navicula contenta*)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Navicula contenta* Grun.); Bourrelly & Manguin 1946a (as *Navicula contenta* Grun.)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

Site: Not Specified

Reference: Gonçalves 2008 (as *Diadasmus contenta* (Grunow ex V. Heurck) Mann)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula contenta* Grunow)

***Diadasmus contenta* var. *biceps* (Grunow in Van Heurck) Hamilton in Hamilton et al. 1992**, p. 30 (table 4) [CAS ref. 003248]

Basionym: *Navicula trinodis* var. *biceps* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 289):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Diadasmus contenta* Grun. var. *biceps* (Cleve) Mann)

***Diadasmus contenta* var. *parallela* (J.B. Petersen) Aboal in Aboal et al. 2003**, p. 242 [CAS ref. 012666]

Basionym: *Navicula contenta* var. *parallela* J.B. Petersen 1928b [CAS ref. 002116]

Nomenclatural synonym: *Navicula contenta* f. *parallela* (J.B. Petersen) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 290):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *parallela* B. Peters); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *parallela* B. Peters)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *parallela* B. Peters); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *parallela* B. Peters)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *parallela* B. Peters); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *parallela* B. Peters)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Navicula contenta* Grunow fo. *parallela* B. Peters); Bourrelly & Manguin 1946a (as *Navicula contenta* Grunow fo. *parallela* B. Peters)

***Diadেসmis gallica* W. Smith 1857**, p. 11; pl. 2, fig. 16 [CAS ref. 000865]

Distribution (Fig. 291):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Diadেসmis gallica* W. M. Smith)

***Diadেসmis perpusilla* (Grunow) D.G. Mann in Round, Crawford & Mann 1990**, p. 666 [CAS ref. 003245]

Basionym: *Navicula perpusilla* Grunow 1860 [CAS ref. 000427]

Nomenclatural synonyms: *Navicula gallica* var. *perpusilla* (Grunow) Lange-Bertalot in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]

Diadেসmis gallica var. *perpusilla* (Grunow) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996 [CAS ref. 007048]

Distribution (Fig. 292):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula gallica* (W. M. Smith) Lagerstedt var. *perpusilla* (Grun.) Lange-Bertalot); Nunes 2007 (as *Diadেসmis gallica* var. *perpusilla* (Grunow) Lange-Bertalot)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Diadেসmis gallica* var. *perpusilla* (Grunow) Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gallica* (W. M. Smith) Lagerstedt var. *perpusilla* (Grun.) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula perpusilla* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula perpusilla* Grunow); Gil et al. 1989-1990 (as *Navicula perpusilla*)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gallica* (W. M. Smith) Lagerstedt var. *perpusilla* (Grun.) Lange-Bertalot)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula perpusilla* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula perpusilla* Grunow); Gil et al. 1989-1990 (as *Navicula perpusilla*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula perpusilla* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula perpusilla* Grunow); Gil et al. 1989-1990 (as *Navicula perpusilla*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula perpusilla* Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula perpusilla* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula perpusilla* Grunow)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Diademsis gallica* var. *perpusilla* (Grunow) Lange-Bertalot)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Diademsis gallica* var. *perpusilla* (Grunow) Lange-Bertalot)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula perpusilla* Grunow); Gil et al. 1989-1990 (as *Navicula perpusilla*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula perpusilla* Grunow)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Diademsis gallica* var. *perpusilla* (Grunow) Lange-Bertalot)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula perpusilla* Grunow); Gil et al. 1989-1990 (as *Navicula perpusilla*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula perpusilla* Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula perpusilla* Grunow)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Navicula perpusilla* Grunow); Gil et al. 1989-1990 (as *Navicula perpusilla*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula perpusilla*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula perpusilla* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula perpusilla* Grunow); Gil et al. 1989-1990 (as *Navicula perpusilla*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula perpusilla*)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Navicula perpusilla* Grun.); Bourrelly & Manguin 1946a (as *Navicula perpusilla* Grun.)
- Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Manguin 1942 (as *Navicula perpusilla* Grun.); Bourrelly & Manguin 1946a (as *Navicula perpusilla* Grun.)
- Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Navicula perpusilla* Grun.); Bourrelly & Manguin 1946a (as *Navicula perpusilla* Grun.)
- Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula gallica* var. *perpusilla*)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Navicula gallica* var. *perpusilla*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Diadasmus perpusilla* (Grunow)
D.G. Mann in Round, Crawford & Mann)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Diadasmus perpusilla* (Grunow)
D.G. Mann in Round, Crawford & Mann)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Diadasmus perpusilla* (Grunow)
D.G. Mann in Round, Crawford & Mann)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Diadasmus perpusilla* (Grunow)
D.G. Mann in Round, Crawford & Mann)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diadasmus perpusilla* (Grunow)
D.G. Mann in Round, Crawford & Mann)
Site: Not Specified
Reference: Gonçalves 2008 (as *Diadasmus perpusilla* (Grunow) D.G.
Mann)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula gallica* (W.M. Sm.) Lagerstedt
var. *perpusilla* (Grunow) Lange-Bertalot)

***Diatoma* De Candolle in Lamarck & De Candolle 1805,
p. 48 [CAS ref. 000265]**

***Diatoma anceps* (Ehrenberg) Kirchner 1878, p. 204 [CAS ref.
000561]**

Basionym: *Fragilaria anceps* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 293):

REGION: CENTRO
Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Diatoma anceps* (Ehr.) Kirchn.)
Site: Caldeirão
Reference: Carvalho 1913 (as *Diatoma anceps* (Ehr.) Kirchn.); Santos & Carvalho 2001 (as *Diatoma anceps* (Ehr.) Kirchn.)
Site: Mondego River (Mondego Basin)
Reference: Carvalho 1913 (as *Diatoma anceps* (Ehr.) Kirchn.); Santos & Carvalho 2001 (as *Diatoma anceps* (Ehr.) Kirchn.)

***Diatoma elongatum* (Lyngbye) C. Agardh 1824**, p. 4 [CAS ref. 000102]

Basionym: *Diatoma tenue* var. *elongatum* Lyngbye 1819 [CAS ref. 000620]

Formatada: Francê

Distribution (Fig. 294):

Código de campo a

REGION: NORTE

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Not Specified

Reference: Zimmermann 1910 (as *Diatoma elongatum* Ag.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Diatoma elongatum*)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Diatoma elongatum*)

Municipality: Not Specified

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Diatoma elongatum*)

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Diatoma elongatum*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Diatoma elongatum* (Lyngbye) Agardh)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Diatoma elongatum*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Diatoma elongatum* (Lyngbye) Agardh)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Diatoma elongatum* (Lyngbye) Agardh); Gil et al. 1989-1990 (as *Diatoma elongatum*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Diatoma elongatum*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Diatoma elongatum*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Diatoma elongatum*)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Diatoma elongatum*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diatoma elongatum* (Lyngbye) Agardh)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Diatoma elongatum* (Lyngbye) Agardh); Gil et al. 1991 (as *Diatoma elongatum*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Diatoma elongatum* (Lyngbye) Agardh)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Diatoma elongatum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Chaves 1908 (as *Diatoma elongata* Agh.); Mölder 1947 (as *Diatoma elongatum* Agardh)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Diatoma elongata* Agh., fossil)

***Diatoma hyemale* (Lyngbye) Heiberg 1863**, p. 58 [CAS ref. 000471]

Basionym: *Fragilaria hiemalis* Lyngbye 1819 [CAS ref. 000620]

Nomenclatural synonym: *Odontidium hyemale (hiemale)* (Lyngbye) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 295):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Caldas do Gerês, Vilar da Veiga

Reference: Sampaio 1950 (as *Diatoma hyemale* (Lyngbye) Heiberg)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Diatoma hyemale*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Diatoma hyemale*)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Colmeiro 1889 (as *Odontidium hyemale* Kg.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diatoma hyemale* (Roth.) Heiberg)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diatoma hyemale* (Roth.) Heiberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Diatoma hyemale* (Roth.) Heiberg)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Diatoma hyemale* (Lyngbye) Heiberg)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

- References: Carvalho 1913 (as *Diatoma hiemale* (Lyngbye) Heiberg); Santos & Carvalho 2001 (as *Diatoma hiemale* (Lyngb.) Heib.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngbye) Heiberg)
 Site: Cubo
 Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngbye) Heiberg)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngbye) Heiberg)
 Site: Guarda
 Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngbye) Heiberg)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngbye) Heiberg)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Diatoma hiemale* (Lyngbye) Heiberg); Santos & Carvalho 2001 (as *Diatoma hiemale* (Lyngb.) Heib.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Diatoma hyemale* (Lyngb.) Heib.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg)
- Subregion: Médio Tejo
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Diatoma hiemale*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Diatoma hiemale*)
 Site: Serra da Estrela
 References: Henriques 1883 (as *Odontidium hyemale* Kützing); Santos & Carvalho 2001 (as *Odontidium hyemale* Kützing)
- REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Diatoma hiemale*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Diatoma hiemale*)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Diatoma hiemale*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (S. Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Diatoma hiemale* (Lyngbye) Heiberg);

Bourrelly & Manguin 1946a (as *Diatoma hiemale* (Lyngbye) Heiberg)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Diatoma hiemale* (Lyngbye) Heiberg)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Diatoma hiemale* (Lyngbye) Heiberg)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Odontidium hyemale* Ktz.)

Site: Pico da Vara

Reference: Holmboe 1901 (as *Diatoma hiemale* (Lyngbye) Heiberg)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Diatoma hiemalis* (Roth) Heiberg)

Site: Not Specified

References: Bourrelly & Manguin 1946b (as *Diatoma hiemale*);

Gonçalves 2008 (as *Diatoma hyemalis* var. *hyemalis* (Roth) Heiberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Fragilaria hyemalis* ?)

***Diatoma mesodon* Kützing 1844**, p. 47; pl. 17, fig. 13 [CAS ref. 000595]

Nomenclatural synonyms: *Odontidium hiemale* (*hyemale*) var. *mesodon* (Ehrenberg) Grunow 1862 [CAS ref. 000428]

Diatoma hiemale var. *mesodon* (Ehrenberg) Kirchner 1878 [CAS ref. 000561]

Distribution (Fig. 296):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing);

Almeida 2001 (as *Diatoma mesodon* (Ehrenberg) Kützing); Nunes 2007

(as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

References: Henriques 1884 (as *Odontidium hiemale* Heib. var. *mesodon*

(Ehrenb.) Grun.); Sampaio 1950 (as *Diatoma hiemale* (Lyngb.) Heib. var.

mesodon)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon*

(Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon*

(Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)

Site: Águeda, Águeda River (Vouga Basin)

References: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon*

(Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon*

(Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing); Ferreira da Silva et al. 2009 (as *Diatoma mesodon* (Ehr.) Kützing)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)

Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Silva Escura, downstream of the Malhada Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfazazes
Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

Site: Caldeirão
References: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.); Santos & Carvalho 2001 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

Site: Cruz da Faia
Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

Site: Cubo
Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

Site: Gonçalo
Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

Site: Meios
References: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.); Santos & Carvalho 2001 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.); Santos & Carvalho 2001 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)
- Site: Nueme
Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)
- Site: Vela
Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Diatoma hiemale* var. *mesodon* (Ehr.) Grun.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Diatoma mesodon* (Ehrenberg) Kützing)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Diatoma hiemale* v. *mesodon*)
- Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Diatoma hiemale* (Roth.) Heiberg v. *mesodon* (Ehr.) Grunow); Gil et al. 1991 (as *Diatoma hiemale* v. *mesodon*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Subregion: Not Specified

Municipality: Not Specified

Site: Vouga Basin

Reference: Almeida & Gil 2000 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Not Specified

References: Almeida & Gil 2001 (as *Diatoma mesodon* (Ehrenberg) Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Odontidium hyemale* Ktz. var. *mesodon* Ktz.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Diatoma mesodon* (Ehrenberg) Kützing)

Site: Not Specified

Reference: Gonçalves 2008 (as *Diatoma mesodon* (Ehrenberg) Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Zimmermann 1909a (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

(as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)
Municipality: Ribeira Brava (Madeira Island)
Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Diatoma hiemale* (Lyngb.) Heib. var. *mesodon* (Ehr.) Grun.)

REGION: Not Specified
Municipality: Not Specified
Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Diatoma mesodon* (Ehrenberg) Kützing)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Diatoma mesodon* (Ehrenberg) Kützing)

***Diatoma mesoleptum* Kützing 1844**, p. 48; pl. 17, fig. 16, fig. 1-3
[CAS ref. 000595]

Distribution (Fig. 297):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Diatoma mesoleptum*, fossil)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diatoma mesoleptum* Kützing, fossil)

***Diatoma obtusum* (Kützing) Kirchner 1878**, p. 204 [CAS ref. 000561]

Basionym: *Denticula obtusa* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 298):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Diatoma obtusa* Grun.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diatoma obtusa* Grunow)

***Diatoma pectinale* (Nitzsch) Kützing 1844**, p. 47; pl. 17, fig. 11
[CAS ref. 000595]

Basionym: *Bacillaria pectinalis* Nitzsch 1817 [CAS ref. 000684]

Distribution (Fig. 299):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Diatoma pectinale*, fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Diatoma pectinale*, fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Diatoma pectinale* (Nitzsch)
Kützing, fossil)

***Diatoma tenuis* C. Agardh 1824**, p. 4 [CAS ref. 000102]

Distribution (Fig. 300):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Diatoma tenuis* Agardh)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Diatoma tenue* Agh.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Diatoma tenue* Agh., fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Diatoma tenue* Agh., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Diatoma tenuis* Agardh)

***Diatoma vulgare* Bory 1831**, pl. 20, fig. 1 [CAS ref. 012705]

Distribution (Fig. 301):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Diatoma vulgare*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Diatoma vulgare*)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Diatoma vulgare*)

Subregion: Minho-Lima

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Diatoma vulgare*)

Municipality: Not Specified

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Diatoma vulgare*)

Subregion: Not Specified

Municipality: Not Specified

Site: Neiva River (Neiva Basin)

Reference: Cerqueira da Silva & Cunha 1992 (as *Diatoma vulgare*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Not Specified

Reference: Colmeiro 1889 (as *Diatoma vulgare* Kg.)

Site: Coimbra

Reference: De Toni 1887 (as *Diatoma vulgare* Bory)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Diatoma vulgare*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Diatoma vulgare* Bory)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma vulgaris* Bory); Gil et al. 1989-1990 (as *Diatoma vulgare*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Diatoma vulgaris* Bory); Gil et al. 1989-1990 (as *Diatoma vulgare*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Diatoma vulgare*); Almeida 1998 (as *Diatoma vulgaris* Bory)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Diatoma vulgaris* Bory)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Diatoma vulgaris* Bory); Gil et al. 1989-1990 (as *Diatoma vulgare*)
- Municipality: Mealhada (District: Aveiro)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Diatoma vulgaris* Bory)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Diatoma vulgaris* Bory)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Diatoma vulgare*); Almeida 1998 (as *Diatoma vulgaris* Bory)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diatoma vulgare*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Diatoma vulgaris* Bory)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Diatoma vulgare* Bory)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Diatoma vulgare* Bory.)
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Diatoma vulgare*)
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Diatoma vulgare*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma vulgaris* Bory); Gil et al. 1989-1990 (as *Diatoma vulgare*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Diatoma vulgaris* Bory); Gil et al. 1989-1990 (as *Diatoma vulgare*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Diatoma vulgaris* Bory); Gil et al. 1989-1990 (as *Diatoma vulgare*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Diatoma vulgaris* Bory)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)

- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Diatoma vulgare*)
- Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Diatoma vulgare*)
- Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Diatoma vulgare*)
- Subregion: Médio Tejo
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Frade 1961 (as *Diatoma vulgare*)
- Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (*Diatoma vulgare* Bory)
- Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Diatoma vulgare* Bory)
- Site: Casal do Feijão, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Diatoma vulgare* Bory)
- Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Diatoma vulgare* Bory)
- Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Diatoma vulgare* Bory)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Diatoma vulgare*)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
References: Oliveira 1982b (as *Diatoma vulgare*); Santos et al. 2002 (as *Diatoma vulgaris* Bory)
- Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Diatoma vulgare*)
- Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Diatoma vulgare*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Cabeçadas et al. 1980 (as *Diatoma vulgare*); Ferreira 1986 (as *Diatoma vulgare*); Brito & Andrade 1992 (as *Diatoma vulgare*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Diatoma vulgare*)
- Subregion: Not Specified
- Municipality: Not Specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Diatoma vulgare*)
- Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Diatoma vulgare*); Cerqueira da Silva et al. 1993 (as *Diatoma vulgare*)

Site: Not Specified

References: Calado 1990 (as *Diatoma vulgare* Bory); Gil et al. 1991 (as *Diatoma vulgare*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Sintra (District: Lisboa)

Site: Mula Reservoir, Mula Stream (Western Streams Basin)

Reference: Ferreira 1986 (as *Diatoma vulgare*)

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Diatoma vulgare*); Fernandes et al. 1987 (as *Diatoma vulgare*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Diatoma vulgare*); Oliveira 1987 (as *Diatoma vulgare* Bory)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Diatoma vulgare*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Diatoma vulgare*)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Diatoma vulgare*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Diatoma vulgare*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Diatoma vulgare* Bory); Fernandes et al. 1987 (as *Diatoma vulgare*)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Diatoma vulgare*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Diatoma vulgare*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Diatoma vulgare* Bory); Fernandes et al. 1987
(as *Diatoma vulgare*)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Diatoma vulgare*)

Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Diatoma vulgare*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Diatoma vulgare*); Oliveira et al.
1989 (as *Diatoma vulgare*)

Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Diatoma vulgare*)

Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Diatoma vulgare* Bory, fossil)

Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Diatoma vulgare*); Brito & Andrade
1992 (as *Diatoma vulgare*)

Subregion: Not Specified

Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Diatoma vulgare*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Diatoma vulgare*)

Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Diatoma vulgare*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Diatoma vulgare*)

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Diatoma vulgare* Agh.)

Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Diatoma vulgaris* Bory)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Diatoma vulgaris* Bory)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Diatoma vulgaris* Bory)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diatoma vulgaris* Bory)
Site: Not Specified
Reference: Gonçalves 2008 (as *Diatoma vulgaris* Bory)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Schodduyn 1927 (as *Diatoma vulgare* Bory)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Diatoma vulgaris*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Diatoma vulgaris* Bory 1824)

***Diatoma vulgare* var. *productum* Grunow 1862**, p. 49 (363) [CAS ref. 000428]

Distribution (Fig. 302):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Diatoma vulgare* var. *producta* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Diatoma vulgare* var. *producta* Grunow);
Bourrelly & Manguin 1946a (as *Diatoma vulgare* var. *producta* Grunow)

Municipality: Povoação (São Miguel Island)

Site: Pico Verde

References: Manguin 1942 (as *Diatoma vulgare* var. *producta* Grunow);
Bourrelly & Manguin 1946a (as *Diatoma vulgare* var. *producta* Grunow)
Municipality: Not Specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Diatoma vulgare* var. *producta* Grunow);
Bourrelly & Manguin 1946a (as *Diatoma vulgare* var. *producta* Grunow)

***Diatoma* sp.**

Distribution (Fig. 303):

REGION: NORTE

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Diatoma* sp.)

Subregion: Douro

Municipality: Armamar (District: Viseu)

Site: Queimadela, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Diatoma* sp.)

Subregion: Not Specified

Municipality: Not Specified

Site: Ave Reservoirs, Ave River (Ave Basin)

References: Branco et al. 1991a (as *Diatoma* sp.); Branco et al. 1991b (as *Diatoma* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Diatoma* sp.)

Subregion: Oeste

Municipality: Alenquer (District: Lisboa)

Site: Alenquer, Alenquer Reservoir

Reference: Frade 1941b (as *Diatoma* sp.)

Site: Alenquer, Alenquer River (Tagus Basin)

Reference: Frade 1941a (as *Diatoma* sp.)

***Diatomella* Greville 1855, p. 259**

[CAS ref. 001238]

Diatomella balfouriana Greville 1855, p. 259; pl. 9, fig. 10-13 [CAS ref. 001238]

Distribution (Fig. 304):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Diatomella balfouriana* Grev.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Diatomella balfouriana* Greville)

Didymosphenia M. Schmidt in Schmidt 1899, pl. 214, fig. 1-12 [CAS ref. 000807]

Didymosphenia geminata (Lyngbye) M. Schmidt in Schmidt 1899, pl. 214, fig. 7-9 [CAS ref. 012479]

Nomenclatural synonym: *Gomphonema geminatum* (Lyngbye) C. Agardh 1824 [CAS ref. 000102]

Distribution (Fig. 305):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Gomphonema geminatum* (Lyngb.) Ag.)

Diploneis (Ehrenberg) Cleve 1894, p. 76
[CAS ref. 000232]

Diploneis apis (Ehrenberg) Ehrenberg 1845c, p. 305 [CAS ref. 010842]

Basionym: *Pinnularia apis* Ehrenberg 1843a [CAS ref. 000294]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Diploneis apis*)

***Diploneis didyma* (A.W.F. Schmidt in Schmidt 1881) Mills 1934a,**
p. 613 [CAS ref. 006287]

Basionym: *Navicula didyma* A.W.F. Schmidt in Schmidt 1881 [CAS ref. 012454]

Distribution (Fig. 306):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Diploneis dydima* (Ehr.) Cleve, fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Diploneis didyma*)

***Diploneis elliptica* (Kützing) Cleve 1894,** p. 92 [CAS ref. 000232]

Basionym: *Navicula elliptica* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 307):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Diploneis elliptica*)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diploneis elliptica* Kützing)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)
Reference: Gil 1988 (as *Diploneis elliptica* Kützing)

- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis elliptica* Kützing)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis elliptica*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis elliptica*)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula elliptica* Kuetz.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula elliptica* Kuetz.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis elliptica* Kützing)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Diploneis elliptica*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Diploneis elliptica*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula elliptica*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Diploneis elliptica*)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Diploneis elliptica* (Kütz) Cleve)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula elliptica* Kütz.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula elliptica* Kütz.)
- Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Barro
 Reference: Zimmermann 1910 (as *Navicula elliptica* Kuetz.)
- Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Diploneis elliptica*)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Diploneis elliptica* Kützing); Gil et al. 1991 (as *Diploneis elliptica*); Almeida 1998 (as *Diploneis elliptica* (Kützing) Cleve)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula elliptica*)

REGION: ALENTEJO
Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Navicula elliptica*); Oliveira 1984b (as *Navicula elliptica*); Oliveira 1987 (as *Navicula elliptica* Kz.)

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Navicula elliptica*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Diploneis elliptica* (Kz.) Cl.)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Diploneis elliptica* (Kz.) Cl.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Diploneis elliptica*)

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
References: Oliveira 1976 (as *Navicula elliptica* Kütz.); Oliveira 1984a (as *Navicula elliptica*)
Municipality: Ourique (District: Beja)
Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
Reference: Oliveira 1984a (as *Navicula elliptica*)

Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula elliptica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula elliptica* Ktz.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Navicula elliptica* Ktz., fossil)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diploneis elliptica* (Kützing) Cleve)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Curral dos Romeiros, João Gomes Stream
Reference: Zimmermann 1909 (as *Navicula elliptica* Kuetz.)
Site: Sítio da Pena, São João Stream
Reference: Zimmermann 1909a (as *Navicula elliptica* Kuetz.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Diploneis elliptica* (Kütz.) Cleve)
Municipality: Ribeira Brava (Madeira Island)
Site: Pomar de Ambrosio, Campanário
Reference: Zimmermann 1909a (as *Navicula elliptica* Kuetz.)
Municipality: Santa Cruz (Madeira Island)
Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Navicula elliptica* Kuetz.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Diploneis elliptica* (Kützing) Cleve)

***Diploneis entomon* (Ehrenberg) Ehrenberg 1845d**, p. 56 [CAS ref. 000955]

Basionym: *Navicula entomon* Ehrenberg 1840b [CAS ref. 000290]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Diploneis entomon*)

***Diploneis faba* Ehrenberg 1845a**, p. 362 [CAS ref. 000957]

Nomenclatural synonym: *Navicula faba* (Ehrenberg) Kützing 1849 [CAS ref. 000596]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus River (Tagus Basin)

References: Colmeiro 1867 (as *Navicula faba* Kg.); Del-Amo y Mora 1870 (as *Navicula faba* Kutz.); Colmeiro 1889 (as *Navicula faba* Kg.);

Zimmermann 1906 (as *Navicula faba* Ehr.)

Site: Tagus riverbanks (Tagus Basin) (Tagus Basin)

Reference: Ehrenberg 1845 (as *Diploneis faba*)

***Diploneis finnica* (Ehrenberg) Cleve 1891**, p. 43; pl. 2, fig. 11 [CAS ref. 000229]

Basionym: *Cocconeis finnica* Ehrenberg 1838 [CAS ref. 000288]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Cocconeis finnica*)

***Diploneis interrupta* (Kützing) Cleve 1894**, p. 84 [CAS ref. 000232]

Basionym: *Navicula interrupta* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 308):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Diploneis interrupta* (Kützing) Cleve)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Diploneis interrupta* (Kützing) Cleve)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula interrupta* Ktz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Diploneis interrupta* (Kützing) Cleve)

***Diploneis marginestriata* Hustedt 1922a**, p. 236; pl. 3, fig. 5 [CAS ref. 000494]

Distribution (Fig. 309):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diploneis marginestriata* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Diploneis marginestriata* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diploneis marginestriata* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Diploneis marginestriata* Hustedt)

***Diploneis minuta* J.B. Petersen 1928a**, p. 381; fig. 6 [CAS ref. 000742]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Diploneis minuta* Petersen)

***Diploneis nitescens* (W. Gregory) Cleve 1894**, p. 97 [CAS ref. 000232]

Basionym: *Navicula smithii* var. *nitescens* W. Gregory 1857a [CAS ref. 000399]

Nomenclatural synonym: *Navicula nitescens* (W. Gregory) Ralfs in A. Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 310):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Torre, Ocreza River (Tagus Basin)

Reference: Zimmermann 1910 (as *Navicula nitescens* Ralfs.)

***Diploneis oblongella* (Nägeli in Kützing) Ross 1947**, p. 212 [CAS ref. 000796]

Basionym: *Navicula oblongella* Nägeli in Kützing 1849 [CAS ref. 000596]

Nomenclatural synonyms: *Navicula elliptica* var. *oblongella* (Nägeli in Kützing) Grunow in Cleve & Möller 1878 [CAS ref. 001976]

Diploneis ovalis var. *oblongella* (Nägeli in Kützing) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 311):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Diploneis oblongella* (Naegeli) Cleve-Euler)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Diploneis oblongella* (Naegeli) Cleve-Euler)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Diploneis oblongella* (Naegeli) Cleve-Euler)
- Municipality: Anadia (District: Aveiro)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis ovalis* v. *oblongella*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Diploneis oblongella* (Naegeli) Cleve-Euler)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfazazes
 Reference: Carvalho 1913 (as *Navicula elliptica* Kuetz. var. *oblongella* (Naeg.))
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve v. *oblongella* (Naeg.) Cleve)
- Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula elliptica* Kütz. var. *oblongella* Naeg.)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Diploneis oblongella* (Naegeli) Cleve-Euler)

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Diploneis oblongella* (Naegeli) Cleve-Euler)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula elliptica* var. *oblongella*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Diploneis oblongella* (Naegeli) Cleve-Euler)

***Diploneis oculata* (Brébisson in Desmazières) Cleve 1894, p. 92**
[CAS ref. 000232]

Basionym: *Navicula oculata* Brébisson in Desmazières 1854 [CAS ref. 001047]

Distribution (Fig. 312):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula oculata*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula oculata*)

REGION: ALENTEJO
Subregion: Not Specified
Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula oculata*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Diploneis oculata* (Bréb.) Cleve)

***Diploneis ovalis* (Hilse in Rabenhorst) Cleve 1891** [CAS ref. 000229]

Basionym: *Pinnularia ovalis* Hilse 1860 [CAS ref. 002263]

Nomenclatural synonym: *Navicula elliptica* var. *ovalis* (Hilse) Cleve & Möller 1878 [CAS ref. 001976]

Distribution (Fig. 313):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1914 (as *Navicula elliptica* Kuetz. var. *ovalis* Hilse)

Subregion: Minho-Lima

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1914 (as *Navicula elliptica* Kuetz. var. *ovalis* Hilse)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Diploneis ovalis*); de Figueiredo et al. 2006 (as *Diploneis ovalis* (Hilse) Cleve)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Diploneis ovalis*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis ovalis*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis ovalis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Diploneis ovalis* (Hilse) Cleve)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Diploneis ovalis* (Hilse) Cleve)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis ovalis*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis ovalis*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Diploneis ovalis* (Hilse) Cleve)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Diploneis ovalis* (Hilse) Cleve)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Diploneis ovalis*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Diploneis ovalis* (Hilse) Cleve)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Diploneis ovalis* (Hilse) Cleve)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfrazes
 Reference: Carvalho 1913 (as *Navicula elliptica* Kuetz. var. *ovalis* Hilse)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula elliptica* Kuetz. var. *ovalis* Hilse)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve)
 Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Diploneis ovalis* (Hilse) Cleve)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Diploneis ovalis*)
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula elliptica* Kütz. var. *ovalis* Hilse)
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Diploneis ovalis* (Hilse) Cleve, fossil)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula elliptica* var. *ovalis*)
Subregion: Península de Setúbal
Municipality: Setúbal (District: Setúbal)
Site: Sado River (Sado Basin)
Reference: Zimmermann 1906 (as *Navicula elliptica* Kütz. var. *ovalis* Hilse)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Diploneis ovalis* (Hilse) Cleve); Bourrelly & Manguin 1946a (as *Diploneis ovalis* (Hilse) Cleve)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Diploneis ovalis* (Hilse) Cleve)
Site: São Jorge Island
References: Johansson 1977 (as *Diploneis ovalis* (Hilse) Cleve); Gonçalves et al. 2010 (as *Diploneis ovalis* (Hilse) Cleve)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diploneis ovalis* (Hilse) Cleve)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Navicula elliptica* Kuetz. var. *ovalis*)
Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Navicula elliptica* Kuetz. var. *ovalis*)

Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Navicula elliptica* Kuetz. var. *ovalis*)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio
Reference: Mölder 1947 *Diploneis ovalis* (Hilse) Cleve

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Diploneis ovalis* (Hilse) Cleve)

***Diploneis pseudovalis* Hustedt 1930**, p. 253; fig. 403 [CAS ref. 000502]

Distribution (Fig. 314):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diploneis pseudovalis* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Diploneis pseudovalis* Hustedt)

***Diploneis puella* (Schumann) Cleve 1894**, p. 92 [CAS ref. 000232]

Basionym: *Navicula puella* Schumann 1867a [CAS ref. 001004]

Distribution (Fig. 315):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Diploneis puella* (Schumann) Cleve)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diploneis puella* Schumann)
Site: Murta, Cértima River (Vouga Basin)

Formatada: Italiano

- Reference: Rino & Gil 1989 (as *Diploneis puella*)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Diploneis puella*); Almeida 1998 (as *Diploneis puella* (Schumann) Cleve)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Diploneis puella* (Schumann) Cleve)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Diploneis puella* Schumann)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Diploneis puella* Schumann)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Diploneis puella* (Schumann) Cleve)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Municipality: Mealhada (District: Aveiro)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Diploneis puella* (Schumann) Cleve)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Diploneis puella* (Schumann) Cleve)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Diploneis puella*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Diploneis puella* (Schumann) Cleve)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Diploneis puella* (Schumann) Cleve)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Diploneis puella* Schumann)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Diploneis puella* Schumann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Diploneis puella* (Schumann) Cleve)

Site: Ribeira Quente
Reference: Mölder 1947 (as *Diploneis puella* (Schumann) Cleve)

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Diploneis puella* (Schumann) Cleve)

***Diploneis smithii* (Brébisson in W. Smith) Cleve 1894**, p. 96 [CAS ref. 000232]

Basionym: *Navicula smithii* Brébisson in W. Smith 1856 [CAS ref. 001007]

Distribution (Fig. 316):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Diploneis smithii* (Brébisson) Cleve)

***Diploneis* sp.**

Distribution (Fig. 317):

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Diploneis* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Diploneis* sp.)

***Discostella* Houk & Klee 2004**, p. 204-205
[CAS ref. 12607]

***Discostella glomerata* (H. Bachmann) Houk & Klee 2004**, p. 220
[CAS ref. 012607]

Basionym: *Cyclotella glomerata* H. Bachmann 1911 [CAS ref. 001590]

Distribution (Fig. 318):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Not Specified

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella glomerata*)

Site: Minho River (Minho Basin)

Reference: Cerqueira da Silva & Cunha 1992 (as *Cyclotella glomerata*)

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Cyclotella glomerata*)

Municipality: Melgaço (District: Viana do Castelo)

Site: Melgaço, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella glomerata*)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella glomerata*)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Cyclotella glomerata*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Cyclotella glomerata*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann); Gil et al. 1989-1990 (as *Cyclotella glomerata*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann); Gil et al. 1989-1990 (as *Cyclotella glomerata*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann); Gil et al. 1989-1990 (as *Cyclotella glomerata*)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Cyclotella glomerata*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Cyclotella glomerata* Bachmann); Gil et al. 1989-1990 (as *Cyclotella glomerata*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Cyclotella glomerata*)
- Site: Forno Novo, Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Cyclotella glomerata*)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- Reference: Gil et al. 1991 (as *Cyclotella glomerata*)
- REGION: ALENTEJO
- Subregion: Alentejo Litoral
- Municipality: Odemira (District: Beja)
- Site: Santa Clara Reservoir, Mira River (Mira Basin)
- Reference: Oliveira 1992 (as *Cyclotella glomerata* Bachman)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Rocha da Galé, Guadiana River (Guadiana Basin)
- Reference: Andrade & Brito 1991 (as *Cyclotella glomerata*)

***Discostella pseudostelligera* (Hustedt) Houk & Klee 2004**, p. 223
[CAS ref. 012607]

Basionym: *Cyclotella pseudostelligera* Hustedt 1939 [CAS ref. 000514]

Distribution (Fig. 319):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cyclotella pseudostelligera* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella pseudostelligera* Hustedt)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Cyclotella pseudostelligera* Hustedt)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Cyclotella pseudostelligera* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação
Site: Lagoa das Furnas
Reference: Gonçalves 1997 (as *Cyclotella pseudostelligera*)

Municipality: Not Specified

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Discostella pseudostelligera* (Hustedt) Houk & Klee)

Site: Not Specified

Reference: Gonçalves 2008 (as *Discostella pseudostelligera* (Hustedt) Houk & Klee)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cyclotella pseudostelligera* Hustedt)

***Discostella stelligera* (Cleve & Grunow) Houk & Klee 2004, p. 208**
[CAS ref. 012607]

Basionym: *Cyclotella meneghiniana* var. *stelligera* Cleve & Grunow in Cleve 1881
[CAS ref. 000222]

Nomenclatural synonym: *Cyclotella stelligera* Cleve & Grunow in Van Heurck 1882-1885 [CAS ref. 000896]

Distribution (Fig. 320):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Cyclotella stelligera*); Oliveira et al. 1985 (as *Cyclotella stelligera*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1985 (as *Cyclotella stelligera*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1985 (as *Cyclotella stelligera*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Cyclotella stelligera* Cleve & Grunow) Van Heurck)

Municipality: Penacova (District: Coimbra)

Site: Aguieira Reservoir, Mondego River (Mondego Basin)

Reference: Oliveira & Monteiro 1992 (as *Cyclotella stelligera*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella stelligera* P. Cleve & Grunow)

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cyclotella stelligera* Cleve & Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Cyclotella stelligera* Cleve & Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella stelligera* P. Cleve & Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella stelligera* P. Cleve & Grunow)

Municipality: Not Specified

Site: Not Specified

Reference: Almeida, 1998 (as *Cyclotella stelligera* Cleve & Grunow)

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Cyclotella stelligera*)

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Cyclotella stelligera*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Cyclotella stelligera* P. Cleve & Grunow); Gil et al. 1989-1990 (as *Cyclotella stelligera*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cyclotella stelligera* P. Cleve & Grunow); Gil et al. 1989-1990 (as *Cyclotella stelligera*)

- Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Frade 1961 (as *Cyclotella stelligera* Cl. & Grun.); Cabeçadas et al. 1980 (as *Cyclotella stelligera*); Ferreira 1986 (as *Cyclotella stelligera*); Andrade et al. 1988 (as *Cyclotella stelligera*); Brito & Andrade 1991 (as *Cyclotella stelligera*); Brito & Andrade 1992 (as *Cyclotella stelligera*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella stelligera*)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Cyclotella stelligera*)
- Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Cyclotella stelligera*)
- Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Cyclotella stelligera*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cyclotella stelligera* Cleve & Grunow)

REGION: ALENTEJO

- Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cyclotella stelligera* Cl. et Grun.)
- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella stelligera*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Cyclotella stelligera* Cl. et Grun.)
- Subregion: Baixo Alentejo
Municipality: Mértola (District: Beja)
Site: Reservoir in the abandoned São Domingos mine
Reference: Gerhardt et al. 2008 (as *Cyclotella stelligera* Cleve & Grunow)
- Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella stelligera*)

Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella stelligera*)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Cyclotella stelligera*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cyclotella stelligera*); Brito & Andrade 1992 (as *Cyclotella stelligera*)
Subregion: Not Specified
Municipality: Not Specified
Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)
Reference: Gerhardt *et al.* 2008 (as *Cyclotella stelligera* Cleve & Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cyclotella stelligera* Cleve et Grun. (in Van Heurck))

***Discostella woltereckii* (Hustedt) Houk & Klee 2004**, p. 223 [CAS ref. 012607]

Basionym: *Cyclotella woltereckii* Hustedt 1942 [CAS ref. 000517]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Discostella woltereckii* (Hustedt) Houk & Klee, fossil)

***Ellerbeckia* R.M. Crawford 1988**, pg. 421
[CAS ref. 003163]

***Ellerbeckia arenaria* (M.S. Moore ex Ralfs) R.M. Crawford 1988**, p. 421 [CAS ref. 003163]

Basionym: *Melosira arenaria* (M.S. Moore) Ralfs 1843a [CAS ref. 002132]

Distribution (Fig. 321):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Melosira arenaria* Moore)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Melosira arenaria* Moore)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira arenaria* Moore)

***Ellerbeckia sol* (Ehrenberg) R.M. Crawford & P.A. Sims 2006, p. 151 [CAS ref. 013434]**

Basionym: *Gaillonella (Gaillonella) sol* Ehrenberg 1844b [CAS ref. 001184]

Nomenclatural synonym: *Melosira sol* (Ehrenberg) Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 322):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Melosira sol* (?))

***Encyonema* Kützing 1833, p. 589
[CAS ref. 000594]**

***Encyonema alpinum* (Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 666 [CAS ref. 003245]**

Basionym: *Cymbella alpina* Grunow 1863 [CAS ref. 000429]

Distribution (Fig. 323):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonema alpinum* (Grunow) D.G. Mann)

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonema alpinum* (Grunow) D.G. Mann)

***Encyonema brehmii* (Hustedt) D.G. Mann in Round, Crawford & Mann 1990, p. 666 [CAS ref. 003245]**

Basionym: *Cymbella brehmii* Hustedt 1912 [CAS ref. 001706]

Distribution (Fig. 324):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella brehmii*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella brehmii* Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Cymbella brehmii* Hustedt)

***Encyonema caespitosum* Kützing 1849**, p. 61 [CAS ref. 000596]

Nomenclatural synonym: *Cymbella caespitosa* (Kützing) Brun 1880 [CAS ref. 000174] 'Caespitosum'

Distribution (Fig. 325):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cymbella caespitosa* (Kützing) Brun)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cymbella caespitosa* (Kütz.) Brun)

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella caespitosa*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella caespitosa* (Kützing) Brun)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella caespitosa* (Kützing) Brun)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella caespitosa* (Kütz.) Brun)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella caespitosa* (Kütz.) Brun)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella caespitosa*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella caespitosa* (Kütz.) Brun)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella caespitosa* (Kütz.) Brun)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella caespitosa* (Kütz.) Brun)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella caespitosa* (Kütz.) Brun)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella caespitosa*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella caespitosa*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Cymbella caespitosa*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Cymbella caespitosa* (Kützing) Brun)

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Cymbella caespitosa* (Kz.) Grun.)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Cymbella caespitosa*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Cyclotella caespitosum* Ktz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Cyclotella caespitosa* Kützing)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Formatada: Portug
(Portugal)

Formatada: Portug
(Portugal)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella caespitosa* (Kützinger) Brun (= *Encyonema*))

***Encyonema elginense* (Krammer) D.G. Mann in Round, Crawford & Mann 1990**, p. 666 [CAS ref. 003245]

Nomenclatural synonym: *Cymbella elginensis* Krammer 1980b [CAS ref. 006853]

Synonym: *Cymbella turgida* W. Gregory 1856 [CAS ref. 000397], according to Krammer 1997a, p. 111

Distribution (Fig. 326):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Cymbella elginensis* Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Encyonema elginense* (Krammer) D.G. Mann)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Encyonema elginense* (Krammer) D.G. Mann)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonema elginense* (Krammer) D.G. Mann)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Encyonema elginense* (Krammer) D.G. Mann)

***Encyonema gaeumannii* (F. Meister) Krammer 1997b**, v. 37: p. 78-79; pl. 141, fig. 1-22, pl. 142, fig. 22-23 [CAS ref. 008010]

Basionym: *Cymbella gaeumannii* (*gaeumannii*) F. Meister 1935 [CAS ref. 000645]

Distribution (Fig. 327):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Cymbella gaeumannii* Meister)
Site: Lagoa da Joaninha
Reference: Gonçalves 1996 (as *Cymbella gaeumannii* Meister)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Cymbella gaeumannii* Meister)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Cymbella gaeumannii* Meister)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Encyonema gaeumannii* (Meister)
D.G. Mann)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Encyonema gaeumannii* (Meister)
D.G. Mann)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Encyonema gaeumannii* (Meister)
D.G. Mann)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Encyonema gaeumannii* (Meister)
D.G. Mann)

***Encyonema gracile* Rabenhorst 1853**, p. 25; pl. 10, Suppl. fig. 1
[CAS ref. 000772] as *C. (Encyonema) gracilis*

Nomenclatural synonym: *Cymbella gracilis* (Rabenhorst) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 328):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema gracile* Rabenhorst)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Encyonema gracile* Rabenhorst); Nunes 2007 (as *Encyonema gracile* Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Fazenda

Reference: Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

Site: Lagoa Rasa
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Cymbella gracilis* (Rabenh.) Cleve)

Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Cymbella gracilis* (Rabenh.) Cleve)

Site: Lagoa Grande
Reference: Mölder 1947 (as *Cymbella gracilis* (Rabenh.) Cleve)

Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Cymbella gracilis* (Rabenh.) Cleve)

Municipality: Povoação (São Miguel Island)
Site: Jose de Canto park, near Furnas
Reference: Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

Site: Lagoa das Furnas
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve);
Mölder 1947 (as *Cymbella gracilis* (Rabenh.) Cleve)

Site: Pico da Vara
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve);
Mölder 1947 (as *Cymbella gracilis* (Rabenh.) Cleve)

Site: Pico Verde
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

Site: Ribeira Quente
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve);
Mölder 1947 (as *Cymbella gracilis* (Rabenh.) Cleve)

Site: Lagoa Comprida
References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)

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- Site: Ribeira Grande
 ▲ References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
 Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve) **Formatada: Portug (Portugal)**
- Site: Not Specified
 Reference: Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve) **Formatada: Portug (Portugal)**
- Municipality: Vila Franca do Campo (São Miguel Island)
 Site: Lagoa do Congro
 ▲ References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
 Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve) **Formatada: Inglês Unido**
- Municipality: Not Specified
 ▲ Site: Lagoa de Cazador (São Miguel Island)
 References: Manguin 1942 (as *Cymbella gracilis* (Rabh.) Cleve);
 Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve) **Formatada: Portug (Portugal)**
- Site: Rochão (Flores Island)
 Reference: Bourrelly & Manguin 1946a (as *Cymbella gracilis* (Rabh.) Cleve)
- Site: Terceira Island
 Reference: Johansson 1977 (as *Cymbella gracilis* (Rab.) Cleve)

***Encyonema hebridicum* (W. Gregory) Grunow in Cleve & Möller 1877, No. 37 [CAS ref. 000242]**

Nomenclatural synonym: *Cymbella hebridica* (Grunow in Cleve & Möller) Cleve 1894 [CAS ref. 000232] as *C. (Encyonema) hebridica*

Distribution (Fig. 329):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Cymbella hebridica* (Greg.) Grun., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

▲ Municipality: Alpiarça (District: Santarém)

Site: Not Specified

▲ Reference: Silva 1946b (as *Cymbella hebridica* (Greg.) Grun., fossil)

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***Encyonema mesianum* (Cholnoky) D.G. Mann in Round, Crawford & Mann 1990, p. 666 [CAS ref. 003245]**

Basionym: *Cymbella mesiana* Cholnoky 1955 [CAS ref. 000201]

Distribution (Fig. 330):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cymbella mesiana* Cholnoky)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella mesiana* Cholnoky)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Cymbella mesiana* Cholnoky)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema mesianum* (Cholnoky) D.G. Mann)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella mesiana* Cholnoky)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella mesiana* Cholnoky)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema mesianum* (Cholnoky) D.G. Mann)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cymbella mesiana* Cholnoky)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Encyonema mesianum* (Cholnoky) D.G. Mann)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Encyonema mesianum* (Cholnoky) D.G. Mann)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonema mesianum* (Cholnoky) D.G. Mann)

Site: Not Specified
Reference: Gonçalves 2008 (as *Encyonema mesianum* (Cholnoky) D.G. Mann)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella mesiana* Cholnoky (*Encyonema*))

***Encyonema minutum* (Hilse in Rabenhorst) D.G. Mann in Round, Crawford & Mann 1990, p. 667 [CAS ref. 003245]**

Basionym: *Cymbella minuta* Hilse in Rabenhorst 1862a [CAS ref. 011630]

Distribution (Fig. 331):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Oliveira de Azeméis (District: Aveiro)
Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Encyonema minutum* Grunow)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Cymbella minuta* Hilse ex Rabenhorst)
Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Gil et al. 1989-1990 (as *Cymbella minuta*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Gil et al. 1989-1990 (as *Cymbella minuta*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Gil et al. 1989-1990 (as *Cymbella minuta*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Gil et al. 1989-1990 (as *Cymbella minuta*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Gil et al. 1989-1990 (as *Cymbella minuta*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Ferreira da Silva et al. 2009 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
- References: Nunes et al. 2002 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Ferreira da Silva et al. 2009 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Ferreira da Silva et al. 2009 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Cymbella minuta*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Cymbella minuta*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Cymbella minuta*); Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Cymbella minuta*)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Gil et al. 1989-1990 (as *Cymbella minuta*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella minuta*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella minuta*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella minuta*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella minuta* Hilse ex Rabenhorst)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

References: Nunes et al. 2003 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema minutum* (Hilse in Rabh.) D.G. Mann)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.); Gil et al. 1989-1990 (as *Cymbella minuta*)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cymbella minuta* Hilse ex Rabenhorst)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Cymbella minuta*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella minuta* Hilse ex Rabh.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella minuta*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella minuta*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Cymbella minuta* Hilse ex Rabenhorst)

Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Cymbella minuta*)

Site: Not Specified

Reference: Gil et al. 1991 (as *Cymbella minuta*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Encyonema minutum* (Hilse in Rabenhorst)
D.G. Mann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Cymbella minuta* Hilse ex Rabenhorst)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Encyonema minutum* (Hilse) D.G.
Mann)

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Encyonema minutum* (Hilse) D.G.
Mann)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Encyonema minutum* (Hilse) D.G.
Mann)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Encyonema minutum* (Hilse) D.G.
Mann)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Encyonema minutum* (Hilse) D.G.
Mann)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonema minutum* (Hilse) D.G.
Mann)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Encyonema minutum* (Hilse) D.G.
Mann)

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonema minutum* (Hilse in
Rabenhorst) Mann)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Cymbella minuta* Hilse ex Rabenhorst
(*Encyonema*))

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Cymbella minuta* Hilse ex Rabenhorst
(*Encyonema*))

Site: Rivers in the North

Reference: Morais et al. 2009 (as *Cymbella minuta* Rabenhorst
(*Encyonema*))

Site: Rivers in the South
Reference: Morais et al. 2009 (as *Cymbella minuta* Hilse ex Rabenhorst (*Encyonema*))

Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella minuta* Hilse ex Rabenhorst (*Encyonema*))

***Encyonema muelleri* (Hustedt) D.G. Mann in Round, Crawford & Mann 1990, p. 667 [CAS ref. 003245]**

Basionym: *Cymbella muelleri* (mülleri) Hustedt 1937c [CAS ref. 001013]

Distribution (Fig. 332):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella muelleri*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella muelleri*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Encyonema muellerii* (Hustedt) D.G. Mann)

***Encyonema neogracile* Krammer 1997b, v.36: p.177-178; pl.82, fig.1-13, pl.83, fig.1-3, pl.85, fig.7-10, pl.86, fig.9-12, pl.90, fig.6, pl.91, fig.1-2 [CAS ref. 006780]**

Distribution (Fig. 333):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema neogracile* Krammer)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema neogracile* Krammer)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Encyonema neogracile* Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Encyonema neogracile* Krammer)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Encyonema neogracile* Krammer)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Encyonema neogracile* Krammer)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Encyonema neogracile* Krammer)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Encyonema neogracile* Krammer)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Encyonema neogracile* Krammer)
Site: Not Specified
Reference: Gonçalves 2008 (as *Encyonema neogracile* Krammer)

***Encyonema paucistriatum* (Cleve-Euler) D.G. Mann in Round, Crawford & Mann 1990, p. 667 [CAS ref. 003245]**

Basionym: *Cymbella paucistriata* Cleve-Euler 1934 [CAS ref. 000249]

Distribution (Fig. 334):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Encyonema paucistriatum* (Cleve-Euler) D.G. Mann)
Site: Not Specified
Reference: Gonçalves 2008 (as *Encyonema paucistriatum* (Cleve-Euler) D.G. Mann)

***Encyonema perpusillum* (A. Cleve) D.G. Mann in Round, Crawford & Mann 1990, p. 667 [CAS ref. 003245]**

Basionym: *Cymbella perpusilla* A. Cleve 1895 [CAS ref. 000243]

Distribution (Fig. 335):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Cymbella perpusilla* A. Cleve); Gil et al. 1989-1990 (as *Cymbella perpusilla*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Cymbella perpusilla* A. Cleve)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Cymbella perpusilla* A. Cleve); Gil et al. 1989-1990 (as *Cymbella perpusilla*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Cymbella perpusilla* A. Cleve); Gil et al. 1989-1990 (as *Cymbella perpusilla*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

- Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella perpusilla* A. Cleve)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Cymbella perpusilla* Cleve-Euler)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Cymbella perpusilla* Cleve); Gil et al. 1991
(as *Cymbella perpusilla*)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Calheta (São Jorge Island)
Site: Ribeira de São João
Reference: Mölder 1947 (as *Cymbella perpusilla* A. Cleve)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Cymbella perpusilla* A. Cleve)
Site: Lagoa do Negro
Reference: Mölder 1947 (as *Cymbella perpusilla* A. Cleve)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Encyonema perpusillum* (A. Cleve)
D.G. Mann)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Encyonema perpusillum* (A. Cleve)
D.G. Mann)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Encyonema perpusillum* (A. Cleve)
D.G. Mann)
Site: São Jorge Island
References: Johansson 1977 (as *Cymbella perpusilla* A. Cleve);
Gonçalves et al. 2010 (as *Encyonema perpusillum* (A. Cleve) D.G. Mann)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Encyonema perpusillum* (A. Cleve)
D.G. Mann)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Encyonema perpusillum* (A. Cleve)
D.G. Mann)
Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonema perpusillum* (A. Cleve) D.G. Mann)

***Encyonema prostratum* (Berkeley) Ralfs 1845**, p. 182; pl. 18, fig. 3
[CAS ref. 001834]

Basionym: *Monema prostratum* Berkeley 1833 [CAS ref. 001598]

Nomenclatural synonym: *Cymbella prostrata* (Berkeley) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 336):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella prostrata*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Cymbella prostrata*)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella prostrata*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Cymbella prostrata* (Berkeley) Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel, Ocreza River (Tagus Basin)
- Reference: Zimmermann 1906 (as *Encyonema prostratum* (Berk.) Ralfs)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- Reference: Gil 1988 (as *Cymbella prostrata* (Berk.) P. Cleve)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Cymbella prostrata*)
- Site: Forno Novo, Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Cymbella prostrata*)
- Site: Tramagal, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Cymbella prostrata*)
- Subregion: Oeste
- Municipality: Óbidos (District: Leiria)
- Site: Not Specified
- Reference: Silva 1946b (as *Cymbella prostata* (Berk.) Cleve, fossil)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- Reference: Gil et al. 1991 (as *Cymbella prostrata*)
- REGION: AUTONOMOUS REGION OF AZORES**
- Municipality: Lajes das Flores (Flores Island)
- Site: Lagoa Rasa
- References: Manguin 1942 (as *Cymbella prostata* (Berkeley) Cleve);
Bourrelly & Manguin 1946a (as *Cymbella prostata* (Berkeley) Cleve)
- Municipality: Povoação (São Miguel Island)
- Site: Pico da Vara
- Reference: Holmboe 1901 (as *Encyonema prostratum* (Berk.) Ralfs)
- Municipality: Not Specified
- Site: Flores Island
- Reference: Gonçalves et al. 2010 (as *Encyonema prostratum* (Berkeley) Kützing)
- Site: São Miguel Island
- Reference: Gonçalves et al. 2010 (as *Encyonema prostratum* (Berkeley) Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Encyonema prostratum* (Berk.) Ralfs)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella prostata* (Berkeley) Grunow (*Encyonema*))

***Encyonema rostratum* Krammer 1997b**, v. 37: p. 190-191; pl. 126, fig. 1-14 [CAS ref. 008010]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonema rostratum* Krammer)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Encyonema rostratum* Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Encyonema rostratum* Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Encyonema rostratum* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonema rostratum* Krammer)

***Encyonema silesiacum* (Bleisch in Rabenhorst) D.G. Mann in Round, Crawford & Mann 1990**, p. 667 [CAS ref. 003245]

Basionym: *Cymbella silesiaca* Bleisch in Rabenhorst 1861-1882 [CAS ref. 000773]

Distribution (Fig. 337):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Encyonema silesiacum* (Bleisch) D. G. Mann)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann); Ferreira da Silva et al. 2009 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

References: Nunes et al. 2002 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann); Nunes et al. 2003 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann); Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D. G. Mann); Ferreira da Silva et al. 2009 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

References: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann); Ferreira da Silva et al. 2009 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema silesiacum* (Bleisch in Rabh.) D.G. Mann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Encyonema silesiacum* (Bleisch) D.G. Mann)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Encyonema silesiacum* (Bleisch) D.G. Mann)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Encyonema silesiacum* (Bleisch) D.G. Mann)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonema silesiacum* (Bleisch) D.G. Mann)

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonema silesiacum* (Bleisch) D.G. Mann)

REGION: Not Specified

Municipality: Not Specified

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Cymbella silesiaca* Bleisch (*Encyonema*))

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella silesiaca* Bleisch in Rabenhorst (*Encyonema*))

***Encyonema ventricosum* (Kützing) Grunow in Schmidt 1875b**, pl. 10, fig. 59 [CAS ref. 012443]

Basionym: *Cymbella ventricosa* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 338):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Cymbella ventricosa*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Cymbella ventricosa*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Cymbella ventricosa*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Cymbella ventricosa*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Cymbella ventricosa* C. Agardh)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Cymbella ventricosa* Kützing)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Cymbella ventricosa* Kützing)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)

Site: Caldeirão

References: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.);

Santos & Carvalho 2001 (as *Encyonema ventricosum* (Ag.) Grun.)

Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.);
 Santos & Carvalho 2001 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Vela
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Encyonema ventricosum* (Ag.) Grun.)
 Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Cymbella ventricosa*)
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cymbella ventricosa*)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cymbella ventricosa*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Brito & Andrade 1992 (as *Cymbella ventricosa*); Cabeçadas et al. 1980 (as *Cymbella ventricosa*)
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Cymbella ventricosa* Kütz)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cymbella ventricosa*)
 Subregion: Oeste
 Municipality: Óbidos (District: Leiria)
 Site: Not Specified
 References: Silva 1946a (as *Cymbella ventricosa* (Kütz) Cleve, fossil);
 Silva 1946b (as *Cymbella ventricosa* (Kütz) Cleve, fossil)
 Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Cymbella ventricosa*)
Subregion: Not Specified
Municipality: Not Specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Cymbella ventricosa*)
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Cymbella ventricosa*); Cerqueira da Silva et al. 1993 (as *Cymbella ventricosa*); Cerqueira da Silva 1994 (as *Cymbella ventricosa*)
Site: Not Specified
Reference: Calado 1990 (as *Cymbella ventricosa* Kützing)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella ventricosa*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
Reference: Oliveira & Monteiro 1995 (as *Cymbella ventricosa*); Oliveira 1996 (as *Cymbella ventricosa*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
Site: Carvalhal diatomite
Reference: Silva 1949 (as *Cymbella ventricosa* (Kütz.) Cleve, fossil)

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Cymbella ventricosa* Kütz.); Fernandes et al. 1987 (as *Cymbella ventricosa*)

Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Cymbella ventricosa*)

Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Cymbella ventricosa*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Cymbella ventricosa* Kütz.); Fernandes et al. 1987 (as *Cymbella ventricosa*)

Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Cymbella ventricosa*)
 Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Cymbella ventricosa*)
 Subregion: Lezíria do Tejo
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Cymbella ventricosa* Kützing)
 Municipality: Alpiarça (District: Santarém)
 Site: Not Specified
 References: Silva 1946a (as *Cymbella ventricosa* (Kütz.) Cleve, fossil);
 Silva 1946b (as *Cymbella ventricosa* (Kütz.) Cleve, fossil)
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cymbella ventricosa*)
 Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Cymbella ventricosa*)
 Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 References: Brito & Andrade 1992 (as *Cymbella ventricosa*); Fernandes
 et al. 1987 (as *Cymbella ventricosa*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)
 Site: Not Specified
 Reference: Johansson 1977 (as *Cymbella ventricosa* Kütz.)
 Municipality: Lajes das Flores (Flores Island)
 Site: Lagoinha, Fajãzinha
 References: Manguin 1942 (as *Cymbella ventricosa* Kütz.); Bourrelly &
 Manguin 1946a (as *Cymbella ventricosa* Kütz.)
 Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa Grande
 Reference: Holmboe 1901 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Lagoa das Sete Cidades
 Reference: Holmboe 1901 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Pico do Carvão
 Reference: Holmboe 1901 (as *Encyonema ventricosum* (Ag.) Grun.)
 Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Holmboe 1901 (as *Encyonema ventricosum* (Ag.) Grun.)
 Site: Lagoa das Furnas
 References: Manguin 1942 (as *Cymbella ventricosa* Kütz.); Bourrelly &
 Manguin 1946a (as *Cymbella ventricosa* Kütz.)
 Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Encyonema ventricosum* (Ag.) Grun.)
Site: Pico da Vara
Reference: Holmboe 1901 (as *Encyonema ventricosum* (Ag.) Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Cymbella ventricosa* Kütz.); Bourrelly & Manguin 1946a (as *Cymbella ventricosa* Kütz.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Cymbella ventricosa* Kütz.); Bourrelly & Manguin 1946a (as *Cymbella ventricosa* Kütz.)
Municipality: Not Specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Cymbella ventricosa* Kütz.)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Encyonema ventricosum* (Agardh) Grunow)
Site: Terceira Island
Reference: Johansson 1977 (as *Cymbella ventricosa* Kütz.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Encyonema ventricosum* (Ag.) Grun.)

***Encyonema vulgare* Krammer 1997b**, v. 36: p. 167; pl. 36, fig. 4-10, pl. 38, fig. 1-3, 9-10, pl. 39, fig. 1-5, pl. 42, fig. 1-5, pl. 50, fig. 3-8 [CAS ref. 006780]

Formatada: Inglês Unido

Distribution (Fig. 339):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Valmaior, mouth of Filvida River (Vouga Basin)
Reference: Nunes 2007 (as *Encyonema vulgare* Krammer)

***Encyonema vulgare* var. *intermedia* (Manguin) Krammer 1997b**, v. 36: p. 89 [CAS ref. 006780]

Basionym: *Cymbella turgida* var. *intermedia* Manguin 1964 [CAS ref. 001370]

Distribution (Fig. 340):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonema vulgare* Krammer var. *intermedia* (Manguin) Krammer)

***Encyonema* sp.**

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonema* sp.)

***Encyonopsis* Krammer 1997b, p. 156**

[CAS ref. 006780]

***Encyonopsis aequalis* (W. Smith) Krammer 1997b, v. 37: p. 133-134; pl. 165, fig. 1-11, 15-16, pl. 167, fig. 7-10 [CAS ref. 008010]**

Basionym: *Cymbella aequalis* W. Smith in Greville 1855 [CAS ref. 001238]

Nomenclatural synonym: *Navicula inaequilatera* Lagerstedt 1873 [CAS ref. 000597]

Distribution (Fig. 341):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Cymbella aequalis* W.M.Smith)

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonopsis aequalis* (W. Smith) Krammer)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

References: Zimmermann 1910 (as *Navicula inaequilatera* Lagerst.);
Sampaio 1950 (as *Navicula inaequilatera* Lagerst.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Cymbella aequalis* W. Smith)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aequalis* W. Smith)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Encyonopsis aequalis* (W. Smith) Krammer)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aequalis* W. Smith)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella aequalis* W. Smith)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Cymbella aequalis*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Cymbella aequalis*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Cymbella aequalis* W. Sm.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella aequalis* W. M. Smith)

***Encyonopsis cesatii* (Rabenhorst) Krammer 1997b**, v. 37: p. 152-153; pl. 182, fig. 1-13, pl. 183, fig. 10-12, pl. 185, fig. 1-7, 11-13
[CAS ref. 008010]

Basionym: *Navicula cesatii* Rabenhorst 1853 [CAS ref. 000772]

Nomenclatural synonym: *Cymbella cesatii* (Rabenhorst) Grunow in Schmidt 1881 [CAS ref. 012454]

Distribution (Fig. 342):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula cesatii* Rabenh.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Cymbella cesatii* (Rabenhorst) Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)

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Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella cesatii* (Rabh.) Grunow)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Cymbella cesatii*)

REGION: ALGARVE
 Subregion: Algarve
 Municipality: Tavira (District: Faro)
 Site: Not Specified
 Reference: Krammer 1997 (as *Encyonopsis cesatii* (Rabenhorst) Krammer)

REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Povoação (São Miguel Island)
 Site: Lagoa das Furnas
 References: Chaves 1908 (as *Navicula cesatii* Rab.); Mölder 1947 (as *Cymbella cesatii* (Rabenh.) Grun.)
 Site: Pico da Vara
 Reference: Mölder 1947 (as *Cymbella cesatii* (Rabenh.) Grun.)
 Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Encyonopsis cesatii* (Rabenhorst) Krammer)
 Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Encyonopsis cesatii* (Rabenhorst) Krammer)
 Site: São Jorge Island
 References: Johansson 1977 (as *Cymbella cesatii* (Rab.) Grun.); Gonçalves et al. 2010 (as *Encyonopsis cesatii* (Rabenhorst) Krammer)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Encyonopsis cesatii* (Rabenhorst) Krammer)

REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella cesatii* (Rab.) Grunow)

***Encyonopsis falaisensis* (Grunow) Krammer 1997b**, v.37: p.116-118; pl.161, fig.1, 3-7, pl.162, fig.8-24,27, pl.163, fig.1-5, pl.164, fig.1-13,22-23 [CAS ref. 008010]

Basionym: *Navicula falaisensis* (*falaisiensis*) Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 343):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonopsis falaisensis* (Grunow) Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonopsis falaisensis* (Grunow) Krammer)

***Encyonopsis microcephala* (Grunow) Krammer 1997b**, v.37: p. 91-92; pl.143, fig.1,4,5,8-26, pl.146, fig.1-5, pl. 147, fig.1-3, pl.148, fig.4,7 [CAS ref. 008010]

Basionym: *Cymbella microcephala* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 344):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Cymbella microcephala*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Cymbella microcephala* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Cymbella microcephala* Grunow); Almeida 1998 (as *Cymbella microcephala* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella microcephala* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella microcephala* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella microcephala* Grunow); Gil et al. 1989-1990 (as *Cymbella microcephala*)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella microcephala*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Cymbella microcephala* Grunow); Gil et al. 1989-1990 (as *Cymbella microcephala*)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella microcephala* Grunow); Gil et al. 1989-1990 (as *Cymbella microcephala*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella microcephala* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella microcephala* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella microcephala*)

Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella microcephala*)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella microcephala*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Cymbella microcephala* Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella microcephala* Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella microcephala* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Cymbella microcephala* Grunow); Gil et al. 1989-1990 (as *Cymbella microcephala*)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Cymbella microcephala* Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella microcephala*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Cymbella microcephala*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Cymbella microcephala* Grunow)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella microcephala* Grunow)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella microcephala* Grunow); Gil et al. 1989-1990 (as *Cymbella microcephala*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Cymbella microcephala* Grunow); Gil et al. 1989-1990 (as *Cymbella microcephala*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Cymbella microcephala* Grunow); Gil et al. 1989-1990 (as *Cymbella microcephala*)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Cymbella microcephala*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Cymbella microcephala* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Cymbella microcephala* Grunow); Gil et al. 1991 (as *Cymbella microcephala*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Cymbella microcephala*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Cymbella microcephala*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
References: Oliveira 1976 (as *Cymbella microcephala* Grun.); Oliveira 1984a (as *Cymbella microcephala*)

Municipality: Mértola (District: Beja)
Site: Reservoir in the abandoned São Domingos mine
Reference: Gerhardt et al. 2008 (as *Cymbella microcephala* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)
Reference: Gerhardt et al. 2008 (as *Cymbella microcephala* Grunow)

REGION: ALGARVE

Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Cymbella microcephala*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Cymbella microcephala* Grun.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Cymbella microcephala* Grun.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Cymbella microcephala* Grun.)
Site: Pico da Vara
References: Manguin 1942 (as *Cymbella microcephala* Grun.); Bourrelly & Manguin 1946a (as *Cymbella microcephala* Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Cymbella microcephala* Grun.); Bourrelly & Manguin 1946a (as *Cymbella microcephala* Grun.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Encyonopsis microcephala* (Grunow) Krammer)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Cymbella microcephala* Grun.); Bourrelly & Manguin 1946a (as *Cymbella microcephala* Grun.)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Encyonopsis microcephala* (Grunow) Krammer)
Site: São Jorge Island
References: Johansson 1977 (as *Cymbella microcephala* Grun.); Gonçalves et al. 2010 (as *Encyonopsis microcephala* (Grunow) Krammer)
Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Encyonopsis microcephala* (Grunow) Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonopsis microcephala* (Grunow) Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cymbella microcephala* Grunow)

***Encyonopsis tavirana* Krammer 1997b**, v. 37: p. 196; pl. 148, fig. 1-3 [CAS ref. 008010]

Distribution (Fig. 345):

REGION: ALGARVE

Subregion: Algarve

Municipality: Tavira (District: Faro)

Site: Not Specified

Reference: Krammer 1997 (as *Encyonopsis tavirana* Krammer)

***Encyonopsis* sp.**

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Encyonopsis* sp.1 (aff. *E. subminuta* Krammer & Reichardt))

***Entomoneis* (Ehrenberg) Ehrenberg 1845b**,
p. 154 [CAS ref. 000956]

***Entomoneis alata* (Ehrenberg) Reimer in Patrick & Reimer 1975**,
v. 13: p. 3; pl. 1, fig. 2 [CAS ref. 006176]

Basionym: *Navicula alata* Ehrenberg 1840a [CAS ref. 000293]

Nomenclatural synonym: *Entomoneis alata* Ehrenberg 1845b [CAS ref. 000956]

Distribution (Fig. 346):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Entomoneis alata* Ehrenberg)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Entomoneis alata* Ehrenberg)

***Entomoneis paludosa* (W. Smith) Reimer in Patrick & Reimer 1975**, p. 4-5; pl. 1, fig. 1 [CAS ref. 006176]

Basionym: *Amphiprora paludosa* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 347):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Amphiprora paludosa* W. Sm.)

Eolimna Lange-Bertalot & W. Schiller in Schiller & Lange-Bertalot 1997, p. 166 [CAS ref. 007052]

***Eolimna minima* (Grunow in Van Heurck) Lange-Bertalot in Moser, Lange-Bertalot & Metzeltin 1998**, p. 153 [CAS ref. 007020]

Basionym: *Navicula minima* Grunow in Van Heurck 1880 [CAS ref. 000895]

Synonym: *Navicula minima* var. *atomoides* (Grunow in Van Heurck) Cleve 1894 [CAS ref. 000232], according to Krammer & Lange-Bertalot 1986, p. 229

Navicula tantula Hustedt 1934, p. 162 [CAS ref. 001708], according to Krammer & Lange-Bertalot 1986, p. 229

Distribution (Fig. 348):

REGION: NORTE

Subregion: Alto Trás-os-Montes

- Municipality: Montalegre (District: Vila Real)
 Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
 Reference: Oliveira 1982a (as *Navicula minima*)
- Subregion: Entre Douro e Vouga
 Municipality: Arouca (District: Aveiro)
 Site: Serra da Freita, Arões, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Municipality: Oliveira de Azeméis (District: Aveiro)
 Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 References: Almeida 1998 (as *Navicula minima* Grunow); Almeida 2001 (as *Navicula minima* Grunow); Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: São Pedro de Castelões, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)

REGION: CENTRO

- Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

- References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
- References: Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
- References: Nunes et al. 2002 (as *Eolimna minima* (Grunow) Lange-Bertalot); Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
- Site: São João de Azenha, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as (as *Navicula minima* Grunow))
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula minima* Grunow)

- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as (as *Navicula minima* Grunow))
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula minima* Grunow)
 Site: Vila Verde, Levira River (Vouga Basin)
 References: Almeida 1998 (as *Navicula minima* Grunow); Almeida 2001 (as *Navicula minima* Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula minima* Grunow); Nunes 2007 (as *Eolimna minima* (Grunow) Lange-Bertalot)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Guarda
 References: Zimmermann 1910 (as *Navicula minima* Grun.); Carvalho 1913 (as *Navicula minima* Grun.)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Navicula minima* Grun.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula minima* Grun.); Santos & Carvalho 2001 (as *Navicula minima* Grun.)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

- Reference: Caldas 1988 (as *Navicula minima*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula minima*)
- Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula minima*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Feio et al. 2007 (as *Navicula minima*)
- REGION: ALENTEJO
- Subregion: Alentejo Central
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Oliveira & Monteiro 1995 (*Navicula minima*); Oliveira 1996 (as *Navicula minima*)
- Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Navicula minima* Grunow)
- Subregion: Alto Alentejo
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Navicula minima*)
- REGION: AUTONOMOUS REGION OF AZORES
- Municipality: Povoação (São Miguel Island)
 Site: Lagoa das Furnas
 References: Manguin 1942 (as *Navicula minima* Grun.); Bourrelly & Manguin 1946a (as *Navicula minima* Grun.)
 Site: Ribeira Quente
 References: Manguin 1942 (as *Navicula minima* Grun.); Bourrelly & Manguin 1946a (as *Navicula minima* Grun.)
- Municipality: Praia da Vitória (Terceira Island)
 Site: Lagoa do Boi
 Reference: Gonçalves 1996 (as *Navicula minima* Grunow)
- Municipality: Ribeira Grande (São Miguel Island)
 Site: Ribeira Grande
 Reference: Gonçalves et al. 2008 (as *Eolimna minima*)
- Municipality: Santa Cruz das Flores (Flores Island)
 Site: Ribeira Grande
 References: Manguin 1942 (as *Navicula minima* Grun.); Bourrelly & Manguin 1946a (as *Navicula minima* Grun.)
- Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula minima*)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Navicula minima*)
Site: Tanque
Reference: Azevedo et al. 2005 (as *Navicula minima*)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Eolimna minima* (Grunow) Lange-Bertalot)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eolimna minima* (Grunow) Lange-Bertalot)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Eolimna minima* (Grunow) Lange-Bertalot)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Eolimna minima* (Grunow) Lange-Bertalot)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Eolimna minima* (Grunow) Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eolimna minima* (Grunow) Lange-Bertalot)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Eolimna minima* (Grunow) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Eolimna minima* (Grunow) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Navicula minima* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula minima* Grunow (*Eolimna*))

***Eolimna ruttneri* (Hustedt) Lange-Bertalot & O. Monnier in Monnier, Lange-Bertalot & Bertrand 2003, p. 140 [CAS ref. 013416]**

Basionym: *Navicula ruttneri* Hustedt 1937 [CAS ref. 001012]

Distribution (Fig. 349):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eolimna ruttneri* Lange-Bertalot & Monnier)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eolimna ruttneri* Lange-Bertalot & Monnier)

***Eolimna subminuscula* (Manguin) Gerd Moser, Lange-Bertalot & Metzeltin 1998, p. 154 [CAS ref. 007020]**

Basionym: *Navicula subminuscula* Manguin 1942 [CAS ref. 000623]

Distribution (Fig. 350):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula subminuscula* Manguin)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula subminuscula* Manguin)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Navicula subminuscula* Manguin)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula subminuscula* Manguin)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula subminuscula* Manguin)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula subminuscula* Manguin)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula subminuscula* Manguin)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula subminuscula* Manguin)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula subminuscula* Manguin)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Eolimna subminuscula* (Manguin) Moser, Lange-Bertalot & Metzeltin)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula subminuscula*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula subminuscula*)
Subregion: Not Specified
Municipality: Not Specified
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Navicula subminuscula* Manguin)
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Navicula subminuscula* Manguin)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula subminuscula* Manguin)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula subminuscula*)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Navicula subminuscula* Manguin); Bourrelly & Manguin 1946a (as *Navicula subminuscula* Manguin)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eolimna subminuscula* (Manguin) Moser, Lange-Bertalot & Metzeltin)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Eolimna subminuscula* (Manguin) Moser, Lange-Bertalot & Metzeltin)
Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eolimna subminuscula* (Manguin)
Moser, Lange-Bertalot & Metzeltin)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Eolimna subminuscula* (Manguin)
Moser, Lange-Bertalot & Metzeltin)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eolimna subminuscula* (Manguin)
Moser, Lange-Bertalot & Metzeltin)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eolimna subminuscula* (Manguin) Moser,
Lange-Bertalot & Metzeltin)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula subminuscula* Manguin)

***Eolimna submuralis* (Hustedt) Lange-Bertalot & Kulikovskiy in
Kulikovskiy, Lange-Bertalot & Witkowski 2010, p. 81 [CAS ref.
013469]**

Basionym: *Navicula submuralis* Hustedt 1945 [CAS ref. 000518]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula submuralis* Hustedt)

***Epithemia* Kützing 1844, p. 33
[CAS ref. 000595]**

***Epithemia adnata* (Kützing) Brébisson 1838, p. 16 [CAS ref.
000161]**

Basionym: *Frustulia adnata* Kützing 1833 [CAS ref. 000594]

Synonym: *Epithemia zebra* (Ehrenberg) Kützing 1844 [CAS ref. 000595],
according to Krammer & Lange-Bertalot 1988, p. 152

Distribution (Fig. 351):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Epithemia adnata* (Kützing) Brébisson)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Epithemia adnata* (Kützing) Brébisson)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Epithemia adnata* (Kützing) Brébisson)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Epithemia adnata*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Epithemia adnata* (Kützing) Brébisson)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Epithemia adnata* (Kützing) Brébisson)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Epithemia adnata* (Kützing) Brébisson)

Site: Not Specified

Reference: Gonçalves 2008 (as *Epithemia adnata* (Kützing) Brébisson)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Epithemia adnata* (Kützing) Brébisson)

***Epithemia adnata* var. *porcellus* (Kützing) R.M. Patrick in Patrick & Reimer 1975**, p. 180-181; pl. 24, fig. 6 [CAS ref. 006176]

Basionym: *Epithemia porcellus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Epithemia zebra* var. *porcellus* (Kützing) Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 352):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Epithemia adnata* (Kützing) Brébisson var. *porcellus* (Kützing) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kütz. var. *porcellus* (Kütz.) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kütz. var. *porcellus* (Kütz.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Epithemia adnata* (Kützing) Brébisson var. *porcellus* (Kützing) Grunow)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Epithemia adnata* (Kützing) Brébisson var. *porcellus* (Kützing) Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Epithemia adnata* (Kützing) Brébisson var. *porcellus* (Kützing) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kütz. var. *porcellus* (Kütz.) Grunow)

Municipality: Estarreja (District: Aveiro)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Epithemia adnata* (Kützing) Brébisson var. *porcellus* (Kützing) Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Epithemia adnata* (Kützing) Brébisson var. *porcellus* (Kützing) Grunow)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kütz. var. *porcellus* (Kütz.) Grunow)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Epithemia zebra* var. *porcellus* (Kütz.) Grun., fossil)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: Calado 1990 *Epithemia zebra* (Ehr.) Kütz. var. *porcellus* (Kützing) Grunow

Formatada: Inglês Unido)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Carvalhal diatomite

Reference: Silva 1949 (as *Epithemia zebra* var. *porcellus* (Kütz.) Grun., fossil)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Epithemia zebra* var. *porcellus* (Kütz.) Grun., fossil)

***Epithemia adnata* var. *saxonica* (Kützing) R.M. Patrick in Patrick & Reimer 1975**, p. 182; pl. 24, fig. 9 [CAS ref. 006176]

Formatada: Inglês Unido)

Basionym: *Epithemia saxonica* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Epithemia zebra* var. *saxonica* (Kützing) Grunow 1862 [CAS ref. 000428]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Epithemia zebra* (Ehr.) Kütz. var. *saxonica* (Kütz.) Grunow)

***Epithemia argus* (Ehrenberg) Kützing 1844**, p. 35; pl. 22, fig. 55, 56 [CAS ref. 000595]

Basionym: *Eunotia argus* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Cystopleura argus* (Ehrenberg) Kuntze 1891 [CAS ref. 001330]

Distribution (Fig. 353):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Cystopleura argus* (Ehr.) Kunze.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Epithemia argus* Kützing)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Reference: Silva 1946b (as *Epithemia argus* Kütz., fossil)

Municipality: Torres Vedras (District: Lisboa)

Site: Barro

Reference: Zimmermann 1910 (as *Cystopleura argus* (Ehr.) Kunze.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Epithemia argus*)

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1910 (as *Cystopleura argus* (Ehr.) Kunze.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Epithemia argus*)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

References: Silva 1945 (as *Epithemia argus* Kütz., fossil); Silva 1946b
(as *Epithemia argus* Kütz., fossil)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Epithemia argus* (?))

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

References: Johansson 1977 (as *Epithemia argus* Kütz.); Gonçalves et al. 2010 (as *Epithemia argus* (Ehrenberg) Kützing, fossil)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Epithemia argus* (Ehrenberg) Kützing, fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Caminho do Meio

Reference: Zimmermann 1909a (as *Cystopleura argus* (Kuetz.) Kunze.)

Site: Ribeira de João Gomes

Reference: Zimmermann 1909a (as *Cystopleura argus* (Kuetz.) Kunze.)

Municipality: Povoação (São Miguel Island)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Epithemia argus*, fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Epithemia argus*, fossil)

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço

Reference: Zimmermann 1909a (as *Cystopleura argus* (Kuetz.) Kunze.)

***Epithemia argus* var. *alpestris* (W. Smith) Grunow 1862**, p. 15 (329); pl. 3/5, fig. 28 (pubnum 000427) [CAS ref. 000428]

Basionym: *Epithemia alpestris* W. Smith 1853 [CAS ref. 000863]

Formatada: Portug
(Portugal)

Synonym: *Epithemia argus* var. *capitata* Fricke in Schmidt 1904 [CAS ref. 012486], according to Krammer & Lange-Bertalot 1988, p. 148

Distribution (Fig. 354):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Epithemia alpestris* Sm.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Epithemia alpestris* Sm., fossil)

***Epithemia argus* var. *capitata* Fricke in Schmidt 1904**, pl. 251, fig. 14 [CAS ref. 012486]

Synonym: *Epithemia argus* var. *alpestris* (W. Smith) Grunow 1862 [CAS ref. 000428], according to Krammer & Lange-Bertalot 1988, p. 148

Distribution (Fig. 355):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Guarda, Mondego River (Mondego Basin)

Reference: Zimmermann 1910 (as *Cystopleura argus* (Ehr.) Kunze var. *capitata*)

***Epithemia faba* (Ehrenberg) Kützing 1844**, p. 36; pl. 5, fig. 21 [CAS ref. 000595]

Basionym: *Eunotia faba* Ehrenberg 1838 [CAS ref. 000288]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Serra da Estrela

Reference: Santos & Carvalho 2001 (as *Epithemia faba* Kützing)

***Epithemia ocellata* (Ehrenberg) Kützing 1844**, p. 34; pl. 29, fig. 57 [CAS ref. 000595]

Basionym: *Eunotia ocellata* Ehrenberg 1840a [CAS ref. 000293]

Distribution (Fig. 356):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Epithemia ocellata*, fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Epithemia ocellata*, fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Curral dos Romeiros

Reference: Schodduyn 1927 (as *Epithemia ocellata* Kg.)

***Epithemia reichelti* Fricke in Schmidt 1904**, pl. 251, fig. 28-31 [CAS ref. 012486]

Distribution (Fig. 357):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Epithemia reichelti* Fricke, fossil)

***Epithemia smithii* Carruthers 1864**, p. 76 [CAS ref. 000189]

Distribution (Fig. 358):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Epithemia smithii* Carruthers)

Site: Not Specified

Reference: Gonçalves 2008 (as *Epithemia smithii* Carruthers)

***Epithemia sorex* Kützing 1844**, p. 33; pl. 5/12, fig. 5 a-c [CAS ref. 000595]

Nomenclatural synonym: *Cystopleura sorex* (Kützing) Kuntze 1891 [CAS ref. 001330]

Distribution (Fig. 359):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Cystopleura sorex* (Kütz.) Kunze.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Epithemia sorex* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Epithemia sorex* Kützing); Gil et al. 1989-1990 (as *Epithemia sorex*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Epithemia sorex* Kützing); Gil et al. 1989-1990 (as *Epithemia sorex*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Epithemia sorex* Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Epithemia sorex* Kützing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Epithemia sorex* Kützing)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Epithemia sorex* Kützing); Gil et al. 1989-1990 (as *Epithemia sorex*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Epithemia sorex* Kützing); Gil et al. 1989-1990 (as *Epithemia sorex*)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Epithemia sorex* Kützing)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia sorex* Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Epithemia sorex* Kützing); Gil et al. 1989-1990
(as *Epithemia sorex*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Epithemia sorex*)

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Epithemia sorex* Kütz.)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Santa Cruz

Reference: Zimmermann 1910 (as *Cystopleura sorex* (Kütz.) Kunze.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Epithemia sorex* Kützing); Gil et al. 1991 (as
Epithemia sorex)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Epithemia sorex*)

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1910 (as *Cystopleura sorex* (Kütz.) Kunze.)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Epithemia sorex*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Epithemia sorex*)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Epithemia sorex*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Epithemia sorex*)

Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Epithemia sorex* Kütz., fossil)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Epithemia sorex*)
Subregion: Not Specified
Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)
Reference: Gerhardt et al. 2008 (as *Epithemia sorex* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Epithemia sorex*)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Epithemia sorex* Ktz.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Epithemia sorex* Ktz., fossil)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Epithemia sorex* Ktz., fossil)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Epithemia sorex* Kützing)
Site: Not Specified
Reference: Gonçalves 2008 (as *Epithemia sorex* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Caminho do Meio
Reference: Zimmermann 1909a (as *Cystopleura sorex* (Kuetz.) Kunze.)
Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Cystopleura sorex* (Kuetz.) Kunze.)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Cystopleura sorex* (Kuetz.) Kunze.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Epithemia sorex* Kütz.)
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Cystopleura sorex* (Kuetz.) Kunze.)
Municipality: Ribeira Brava (Madeira Island)

Formatada: Portugal (Portugal)

Site: Pico Stream, Serra da Ribeira Brava
Reference: Zimmermann 1909a (as *Cystopleura sorex* (Kuetz.) Kunze.)
Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Cystopleura sorex* (Kuetz.) Kunze.)
Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Cystopleura sorex* (Kuetz.) Kunze.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Epithemia sorex* Kützing)

***Epithemia sorex* var. *gracilis* Hustedt 1922a**, p. 237; pl. 3, fig. 4
[CAS ref. 000494]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Epithemia sorex* Kützing var. *gracilis* Hustedt)

***Epithemia turgida* (Ehrenberg) Kützing 1844**, p. 34; pl. 5, fig. 14
[CAS ref. 000595]

Basionym: *Navicula turgida* Ehrenberg 1830 [CAS ref. 001999]

Nomenclatural synonym: *Cystopleura turgida* (Ehrenberg) Kuntze 1891 [CAS ref. 001330]

Distribution (Fig. 360):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Epithemia turgida*)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Epithemia turgida*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Epithemia turgida*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Epithemia turgida*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Epithemia turgida*)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Outeiro do Bispo
 Reference: Zimmermann 1909b (as *Cystopleura turgida* (Ehr.) Kunze.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Epithemia turgida*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kützing)
 Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Epithemia turgida* (Ehr.) Kütz)
 Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Epithemia turgida* (Ehrenberg) Kützing); Gil et al. 1991 (as *Epithemia turgida*); Almeida, 1998 (as *Epithemia turgida* (Ehr.) Kützing)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Carvalhal diatomite

Reference: Silva 1949 (as *Epithemia turgida* (Ehr.) Kütz. , fossil)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Epithemia turgida* (Ehr.) Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Calheta

Reference: Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz.)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz.)

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Epithemia turgida* (Ehr.) Kütz.)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz.)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Epithemia turgida* (Ehr.) Kütz.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Epithemia turgida* (Ehr.) Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

References: Holmboe 1901 (as *Epithemia turgida* (Ehr.) Kütz.); Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Formatada: Portug
(Portugal)

- Reference: Holmboe 1901 (as *Epithemia turgida* (Ehr.) Kütz.)
 Site: Lagoa das Furnas
 References: Chaves 1908 (as *Epithemia turgida* Ktz.); Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz.)
 Site: Pico do Gafanhoto
 Reference: Holmboe 1901 (as *Epithemia turgida* (Ehr.) Kütz.)
 Site: Pico da Vara
 Reference: Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz.)
 Site: Ribeira Quente
 References: Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz.); Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz.)
 Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Epithemia turgida* Ktz., fossil)
 Site: Tambores, Furnas
 Reference: Chaves 1908 (as *Epithemia turgida* Ktz., fossil)
 Municipality: Santa Cruz das Flores (Flores Island)
 Site: Ribeira Grande
 References: Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz.)
 Site: Not Specified
 Reference: Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz.)
 Municipality: Not Specified
 Site: Faial Island
 Reference: Gonçalves et al. 2010 (as *Epithemia turgida* (Ehrenberg) Kützing)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Epithemia turgida* (Ehrenberg) Kützing)
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Epithemia turgida* (Ehrenberg) Kützing)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Epithemia turgida* (Ehrenberg) Kützing)
 Site: Terceira Island
 References: Holmboe 1901 (as *Epithemia turgida* (Ehr.) Kütz.); Gonçalves et al. 2010 (as *Epithemia turgida* (Ehrenberg) Kützing)
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Epithemia turgida* (Ehrenberg) Kützing)
- REGION: AUTONOMOUS REGION OF MADEIRA
 Municipality: Funchal (Madeira Island)
 Site: Caminho do Meio
 Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)

- Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)
- Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Cystopleura turgida* (Ehr.) Kunze)
- Site: Santa Luzia Stream
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)
- Site: São João Stream
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)
- Site: Tanque dos Estanquinhos
Reference: Zimmermann 1910-1911 (as *Cystopleura turgida* (Ehr.) Kunze)
- Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz.)
- Municipality: Ribeira Brava (Madeira Island)
Site: Pico Stream, Serra da Ribeira Brava
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)
- Site: Pomar de Ambrosio, Campanário
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)
- Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)
- Municipality: Santa Cruz (Madeira Island)
Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)
- Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Cystopleura turgida* (Ehr.) Kunze.)

***Epithemia turgida* var. *granulata* (Ehrenberg) Brun 1880**, p. 44; pl. 2, fig. 13 [CAS ref. 000174]

Basionym: *Eunotia granulata* Ehrenberg 1836a [CAS ref. 001175]

Distribution (Fig. 361):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Epithemia turgida* var. *granulata* (Ehr.) Brun)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Epithemia turgida* var. *granulata* (Ehr.) Brun)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grun.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grun.)

Site: Ribeira Quente

References: Manguin 1942 (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Epithemia turgida* (Ehr.) Kütz. var. *granulata* (Ehr.) Grun.)

***Epithemia zebra* (Ehrenberg) Kützing 1844**, p. 34; pl. 5/12, fig. 6a-c
[CAS ref. 000595]

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Unido)

Basionym: *Navicula zebra* Ehrenberg 1835 [CAS ref. 000284]

Nomenclatural synonym: *Cystopleura zebra* (Ehrenberg) Kuntze 1891 [CAS ref. 001330]

Synonym: *Epithemia adnata* (Kützing) Brébisson 1838 [CAS ref. 000161], according to Krammer & Lange-Bertalot 1988, p. 152

Distribution (Fig. 362):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão
Reference: Zimmermann 1910 (as *Cystopleura zebra* (Ehr.) Kunze.)
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Epithemia zebra* (Ehr.) Kütz.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kützing)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Epithemia zebra* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Epithemia zebra*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Epithemia zebra* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Epithemia zebra*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Epithemia zebra* (Ehrenberg) Kützing)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Epithemia zebra* (Ehr.) Kützing)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Reference: Silva 1946b (as *Epithemia zebra* Ehr., fossil)

Municipality: Torres Vedras (District: Lisboa)

Site: Catefica

Reference: Zimmermann 1910 (as *Cystopleura zebra* (Ehr.) Kunze.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Epithemia zebra* (Ehrenberg) Kützing)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Formatada: Inglês

Site: Carvalhal diatomite
Reference: Silva 1949 (as *Epithemia zebra* (Ehr.) Kütz., fossil)
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
References: Silva 1945 (as *Epithemia zebra* (Ehr.) Kütz., fossil); Silva 1946b (as *Epithemia zebra* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
References: Holmboe 1901 (as *Epithemia zebra* (Ehr.) Kütz.); Oliveira 1989 (as *Epithemia zebra*)
Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Epithemia zebra* Ehr.)
Site: Furnas
Reference: Mölder 1947 (as *Epithemia zebra* (Ehr.) Kütz.)
Site: Lagoa das Furnas
Reference: Holmboe 1901 (as *Epithemia zebra* (Ehr.) Kütz.)
Site: Pico da Vara
Reference: Mölder 1947 (as *Epithemia zebra* (Ehr.) Kütz.)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Epithemia zebra* (Ehr.) Kütz.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Epithemia zebra* Ehr., fossil)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Epithemia zebra* Ehr., fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Cystopleura zebra* (Ehr.) Kunze.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Epithemia zebra* (Ehr.) Kütz.)
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Cystopleura zebra* (Ehr.) Kunze.)

***Epithemia* sp.**

Distribution (Fig. 363):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (*Epithemia* sp.)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Epithemia* sp.)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Epithemia* sp.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Epithemia* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (*Epithemia* sp.)

***Euocconeis* Cleve ex F. Meister 1912, p. 95**

[CAS ref. 000642]

***Euocconeis austriaca* (Hustedt) Lange-Bertalot apud Lange-Bertalot & Genkal in Lange-Bertalot (ed.) 1999, p. 46 [CAS ref. 009014]**

Basionym: *Achnanthes austriaca* Hustedt 1922b [CAS ref. 006174]

Nomenclatural synonym: *Achnanthes laevis* var. *austriaca* (Hustedt) Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 364):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)
 Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes austriaca*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes austriaca* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes austriaca* Hustedt); Gil et al. 1989-1990 (as *Achnanthes austriaca*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Achnanthes austriaca* Hustedt); Gil et al. 1991 (as *Achnanthes austriaca*)

***Eucoconeis laevis* (Østrup) Lange-Bertalot apud Lange-Bertalot & Genkal in Lange-Bertalot (ed.) 1999, p. 46 [CAS ref. 009014]**

Basionym: *Achnanthes laevis* Østrup 1910 [CAS ref. 000706]

Distribution (Fig. 365):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

References: Gonçalves et al. 2010 (as *Eucoconeis laevis* (Oestrup) Lange-Bertalot)

***Eucoconeis flexella* (Kützing) F. Meister 1912, p. 95 [CAS ref. 000642]**

Basionym: *Cymbella flexella* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Achnanthidium flexellum* (Kützing) Brébisson ex Kützing 1849 [CAS ref. 000596]

Achnanthes flexella (Kützing) A. Mann 1937 [CAS ref. 000634]

Distribution (Fig. 366):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Achnanthidium flexellum*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: Calado 1990 (as *Achnanthes flexella* (Kützing) Brun.)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eucoconeis flexella* (Kütz.), fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Jorge Island
References: Johansson 1977 (as *Achnanthes flexella* (Kütz.) Brun.);
Gonçalves et al. 2010 (as *Achnanthes flexella* (Kützing) Meister)

***Eunotia* Ehrenberg 1837d, p. 44**
[CAS ref. 001178]

***Eunotia alpina* (Nägeli in Kützing) Hustedt in Schmidt 1913, pl. 291, fig. 7-8 [CAS ref. 012496]**

Basionym: *Synedra alpina* Nägeli in Kützing 1849 [CAS ref. 000596]

Synonym: *Eunotia naegelii* Migula 1907 [CAS ref. 001770], according to Krammer & Lange-Bertalot 1991a, p. 182

Distribution (Fig. 367):

REGION: NORTE
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Eunotia alpina*)

REGION: CENTRO
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia alpina* (Ehrenberg) Mills)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Eunotia alpina* (Ehrenberg) Mills)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Eunotia alpina* (Ehrenberg) Mills)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia alpina* (Naeg.) Hust.); Bourrelly & Manguin 1946a (as *Eunotia alpina* (Naeg.) Hust.)

***Eunotia arcofallax* Lange-Bertalot in Werum & Lange-Bertalot 2004, p. 148; pl. 7, fig. 1-9 [CAS ref. 012889]**

Distribution (Fig. 368):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Eunotia arcofallax* Lange-Bertalot)

***Eunotia arcubus* Nörpel-Schempp & Lange-Bertalot in Lange-Bertalot 1993, p. 24-25; pl. 16, fig. 1-6, tafeln 19-21 [CAS ref. 008467]**

Distribution (Fig. 369):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia arcubus* Nörpel & Lange-Bertalot)

***Eunotia arculus* Lange-Bertalot & Nörpel-Schempp in Kramer & Lange-Bertalot 1991a, p. 213; pl. 157, figs. 4-12 [CAS ref. 006521]**

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia arculus* (Grunow) Lange-Bertalot & Nörpel)

***Eunotia arcus* Ehrenberg 1838**, p. 191; pl. 21, fig. 22 [CAS ref. 000288]

Nomenclatural synonym: *Himantidium arcus* (Ehrenberg) Ehrenberg 1840a [CAS ref. 000293]

Distribution (Fig. 370):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1985 (as *Eunotia arcus*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Eunotia arcus*); Oliveira 1985 (as *Eunotia arcus*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1985 (as *Eunotia arcus*)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Eunotia arcus* Ehr.)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Eunotia arcus* Ehr.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia arcus* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia arcus*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Eunotia arcus* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia arcus*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia arcus* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia arcus*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Eunotia arcus* Ehrenberg)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Diz River
 Reference: Carvalho 1913 (as *Eunotia arcus* Ehr.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Eunotia arcus* Ehr.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia arcus* Ehrenberg)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Eunotia arcus*)
 Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Eunotia arcus* Ehr.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Eunotia arcus* Ehr.)

Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as) *Eunotia arcus*
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Eunotia arcus*)

Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Eunotia arcus*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Eunotia arcus* Ehrenberg); Gil et al. 1991
 (as *Eunotia arcus*)

REGION: ALENTEJO

Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Eunotia arcus* Ehrenberg)

Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1987 (as *Eunotia arcus* Ehr.)

Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Eunotia arcus*)

Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Eunotia arcus* Ehr.)

Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Eunotia arcus*)

Municipality: Nisa (District: Portalegre)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Eunotia arcus* Ehr.)

Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Eunotia arcus*)

Subregion: Lezíria do Tejo
 Municipality: Alpiarça (District: Santarém)
 Site: Not Specified

Reference: Silva 1946b (as *Eunotia arcus* Ehr., fossil)

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Eunotia arcus*)

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia arcus* Ehr., fossil)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Eunotia arcus*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Eunotia arcus* Ehr.)

Site: Lagoa das Furnas

References: O'Meara 1874 (as *Himantidium arcus*); Dyer 1875 (as

Himantidium arcus Ehr.); Holmboe 1901 (as *Eunotia arcus* Ehr.)

Site: Pico da Vara

Reference: Holmboe 1901 (as *Eunotia arcus* Ehr.)

Municipality: Not Specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia arcus* Ehrenberg)

Site: São Jorge Island

References: Johansson 1977 (as *Eunotia arcus* Ehr.); Gonçalves et al.

2010 (as *Eunotia arcus* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia arcus* Ehrenberg)

Site: Terceira Island

References: Johansson 1977 (as *Eunotia arcus* Ehr.); Gonçalves et al.

2010 (as *Eunotia arcus* Ehrenberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia arcus* Ehrenberg var. *arcus*)

***Eunotia arcus* var. *bidens* Grunow in Van Heurck 1882-1885, p. 142; pl. 34, fig. 7 [CAS ref. 000896]**

Distribution (Fig. 371):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)
Site: Ribeirão de Famalicão
Reference: Zimmermann 1910 (as *Eunotia arcus* Ehr. var. *bidens* V. H.)
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Eunotia arcus* Ehr. var. *bidens* Grun.)
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Eunotia arcus* Ehr. var. *bidens* Grun.)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia arcus* Ehr. var. *bidens* Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Eunotia arcus* Ehr. var. *bidens* Grun.);
Bourrelly & Manguin 1946a (as *Eunotia arcus* Ehr. var. *bidens* Grun.)

***Eunotia arcus* var. *curtum* (*curta*) Grunow 1862**, p. 25 (339) [CAS ref. 000428]

Distribution (Fig. 372):

REGION: CENTRO
Subregion: Cova da Beira
Municipality: Covilhã (District: Castelo Branco)
Site: Covilhã
References: Zimmermann 1910 (as *Eunotia arcus* Ehr. var. *curta*); Santos & Carvalho 2001 (as *Eunotia arcus* Ehr. var. *curta*)

***Eunotia arcus* var. *fallax* Hustedt 1930**, p. 175; fig. 219 [CAS ref. 000502]

Distribution (Fig. 373):

REGION: NORTE
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Eunotia arcus* Ehr. var. *fallax* Hust.)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia arcus* var. *fallax* Hust., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Eunotia arcus* v. *fallax* Hust.)

***Eunotia arcus* var. *minor* Grunow in Van Heurck 1882-1885, pl. 34, fig. 3 [CAS ref. 000896]**

Distribution (Fig. 374):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Eunotia arcus* (Ehr.) var. *minor*)
Site: Gonçalves
Reference: Carvalho 1913 (as *Eunotia arcus* (Ehr.) var. *minor*)
Site: Meios
References: Carvalho 1913 (as *Eunotia arcus* (Ehr.) var. *minor*); Santos & Carvalho 2001 (as *Eunotia arcus* Ehr. var. *minor*)

***Eunotia bicapitata* Grunow in Van Heurck 1882-1885, pl. 35, fig. 11 [CAS ref. 000896]**

Distribution (Fig. 375):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Eunotia bicapitata* Grim., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Eunotia bicapitata* Grün., fossil)

***Eunotia bidens* Ehrenberg 1843a, p. 413 (125) [CAS ref. 000294]**

Nomenclatural synonym: *Eunotia praerupta* var. *bidens* (Ehrenberg) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 376):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Eunotia praerupta* Ehr. var. *bidens* Grun.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia praerupta* Ehrenberg var. *bidens* (Ehrenberg) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

- Reference: Almeida 1998 (as *Eunotia praerupta* Ehrenberg var. *bidens* (Ehrenberg) Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia praerupta* Ehrenberg var. *bidens* (Ehrenberg) Grunow)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia praerupta* Ehrenberg var. *bidens* (Ehrenberg) Grunow)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia praerupta* Ehrenberg var. *bidens* (Ehrenberg) Grunow)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Eunotia praerupta* Ehr. var. *bidens* Grun.); Santos & Carvalho 2001 (as *Eunotia praerupta* Ehr. var. *bidens* Grun.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia praerupta* (Ehr.) v. *bidens* (Ehr.) Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Eunotia praerupta* v. *bidens*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Eunotia praerupta* Ehr. var. *bidens* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia praerupta* Ehr. var. *bidens* (W. Sm.) Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Eunotia praerupta* Ehr. var. *bidens* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia praerupta* Ehr. var. *bidens* (W. Sm.) Grun.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia bidens* Ehrenberg)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Eunotia praerupta* Ehr. var. *bidens* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia praerupta* Ehr. var. *bidens* (W. Sm.) Grun.)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia bidens* Ehrenberg)

***Eunotia bidentula* W. Smith 1856, p. 83 [CAS ref. 001007]**

Distribution (Fig. 377):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Raivo, Águeda River (Vouga Basin)

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Formatada: Inglês Unido)

Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia bidentula* W. Smith); Gil et al. 1989-1990 (as *Eunotia bidentula*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia bidentula* W. Smith)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Eunotia bidentula* W. Smith)

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
References: Silva 1946a (as *Eunotia bidentula* W. Sm., fossil); Silva 1946b (as *Eunotia bidentula* W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
Reference: Manguin 1942 (as *Eunotia bidentula* W. Sm.)
Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Eunotia bidentula* W. Sm.); Bourrelly & Manguin 1946a (as *Eunotia bidentula* W. Sm.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia bidentula* W. M. Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia bidentula* W. M. Smith)

Site: Not Specified

Reference: Bourrely & Manguin 1946b (as *Eunotia bidentula*); Gonçalves 2008 (as *Eunotia* cf. *bidentula* W.M. Smith)

***Eunotia bilunaris* (Ehrenberg) Schaarschmidt 1880**, p. 159 [CAS ref. 002834]

Basionym: *Synedra bilunaris* Ehrenberg 1832b [CAS ref. 000282]

Synonym: *Eunotia lunaris* (Ehrenberg) Grunow 1877 [CAS ref. 000437], according to Kramer & Lange-Bertalot 1991a, p. 180

Distribution (Fig. 378):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Eunotia bilunaris* (Ehrenberg) Mills); Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *bilunaris*); Ferreira da Silva et al. 2009 (as *Eunotia bilunaris* (Ehr.) Mills var. *bilunaris*)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Eunotia bilunaris* (Ehrenberg) Mills)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills); Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *bilunaris*)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *bilunaris*)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)

- Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Irrigation channel near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *bilunaris*)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *bilunaris*)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)

- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *bilunaris*)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *bilunaris*)
- Site: Silva Escura, Upstream of Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Subregion: Not Specified
Municipality: Not Specified
Site: Impacted site after BKME discharge, Vouga River (Vouga Basin)
Reference: Ferreira et al. 2002 (as *Eunotia bilunaris*)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Eunotia bilunaris* (Ehrenberg) Mills)
- Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Eunotia bilunaris* (Ehrenberg) Mills)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia bilunaris* (Ehrenberg) Mills)
Site: Not Specified
Reference: Gonçalves 2008 (as *Eunotia bilunaris* (Ehrenberg) Mills)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia bilunaris* (Ehr.) Mills var. *bilunaris*)

***Eunotia bilunaris* var. *linearis* (Okuno) Lange-Bertalot & Nörpel-Schempp in Krammer & Lange-Bertalot 1991a, p. 180 [CAS ref. 006521]**

Basionym: *Eunotia flexuosa* var. *linearis* Okuno 1952 [CAS ref. 001417]

Distribution (Fig. 379):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *linearis* (Okuno) Lange-Bertalot)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *linearis* (Okuno) Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia bilunaris* var. *linearis* (Okuno) Lange-Bertalot & Nörpel-Schempp)

***Eunotia circumborealis* Lange-Bertalot & Nörpel-Schempp in Lange-Bertalot 1993, p. 30 [CAS ref. 008467]**

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia circumborealis* Nörpel & Lange-Bertalot)

***Eunotia curtagrunowii* Nörpel-Schempp & Lange-Bertalot in Lange-Bertalot & Metzeltin 1996, v. 2: p. 48; pl. 12, fig. 6-11 [CAS ref. 007048]**

Distribution (Fig. 380):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia curtagrunowii* Nörpel-Schempp & Lange-Bertalot in Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia curtagrunowii* Nörpel-Schempp & Lange-Bertalot in Lange-Bertalot)

***Eunotia diodon* Ehrenberg 1837d, p. 45 [CAS ref. 001178]**

Distribution (Fig. 381):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia diodon*)

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia diodon*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia diodon*)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Nueme
 Reference: Carvalho 1913 (as *Eunotia diodon* Ehr.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Eunotia diodon* Ehr.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia diodon* Ehrenberg)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Pond near Lagoa Comprida
 Reference: Santos et al. 2002 (as *Eunotia diodon* Ehrenberg)
 Subregion: Not Specified
 Municipality: Not Specified

Site: Not Specified
Reference: Gil et al. 1991 (as *Eunotia diodon*)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia diodon* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Eunotia diodon* Ehr.); Bourrelly & Manguin 1946a (as *Eunotia diodon* Ehr.)
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Eunotia diodon* Ehr.); Bourrelly & Manguin 1946a (as *Eunotia diodon* Ehr.)
Site: Pico Verde
References: Manguin 1942 (as *Eunotia diodon* Ehr.); Bourrelly & Manguin 1946a (as *Eunotia diodon* Ehr.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia diodon* Ehrenberg)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Eunotia diodon* Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia diodon* Ehrenberg)
Site: Not Specified
Reference: Bourrelly & Manguin 1946b (as *Eunotia diodon*); Gonçalves 2008 (as *Eunotia diodon* Ehrenberg)

***Eunotia exgracilis* Åke Berg in man. Cleve-Euler 1953, p. 106; fig. 440 a-c [CAS ref. 001041]**

Distribution (Fig. 382):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
Site: Avelal de Baixo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exgracilis* W. Smith); Gil et al. 1989-1990 (as *Eunotia exgracilis*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exgracilis* W. Smith); Gil et al. 1989-1990 (as *Eunotia exgracilis*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exgracilis* W. Smith); Gil et al. 1989-1990 (as *Eunotia exgracilis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exgracilis* W. Smith); Gil et al. 1989-1990 (as *Eunotia exgracilis*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exgracilis* W. Smith)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Eunotia exgracilis*)

***Eunotia exigua* (Brébisson in Kützing) Rabenhorst 1864, p. 73**
 [CAS ref. 000775]

Basionym: *Himantidium exiguum* Brébisson in Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 383):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst); Ferreira da Silva et al. 2009 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia exigua* (Brébisson) Rabenhorst)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia exigua* (Brébisson) Rabenhorst)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Eunotia exigua*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Eunotia exigua*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Eunotia exigua*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia exigua* (Brébisson) Rabenhorst)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*); Almeida 1998 (as *Eunotia exigua* (Brébisson) Rabenhorst)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

- Reference: Almeida 1998 (as *Eunotia exigua* (Brébisson) Rabenhorst)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia exigua* (Brébisson) Rabenhorst)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst)
 Site: Vouga Basin
 Reference: Almeida & Gil 2000 (as *Eunotia exigua* (Brébisson) Rabenhorst)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst)
 Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
 References: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst); Ferreira da Silva et al. 2009 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst)
- Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia exigua*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia exigua*)

- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia exigua* (Brébisson) Rabenhorst)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
- Municipality: Estarreja (District: Aveiro)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia exigua* (Brébisson) Rabenhorst)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia exigua*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia exigua*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia exigua*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia exigua*)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst)
 Site: Silva Escura, upstream of Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Site: Gonçalves
 Reference: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Site: Meios
 References: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.); Santos & Carvalho 2001 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.); Santos & Carvalho 2001 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Serra da Gardunha
 Reference: Zimmermann 1910 (as *Eunotia exigua* (Bréb.) Rabenh.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Eunotia exigua*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia exigua* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Eunotia exigua*)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Eunotia exigua* (Brébisson) Rabenhorst)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Vouga Basin
 Reference: Almeida & Gil 2000 (as *Eunotia exigua* (Brébisson) Rabenhorst)
 Site: Not Specified
 References: Calado 1990 (as *Eunotia exigua* (Brébisson) Grunow); Gil et al. 1991 (as *Eunotia exigua*); Almeida & Gil 2001 (as *Eunotia exigua* (Brébisson) Rabenhorst)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Eunotia exigua* Brébisson in Kützing)
Rabenhorst)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Eunotia exigua* Brébisson in Kützing)
Rabenhorst)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Eunotia exigua* Brébisson in Kützing)
Rabenhorst)

Municipality: Mértola (District: Beja)

Site: Acid mine drainage of the São Domingos mine

Reference: Gerhardt *et al.* 2008 (as *Eunotia exigua* (Brébisson) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Eunotia exigua* (Brébisson ex Kützing)
Rabenhorst)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Eunotia exigua* (Brébisson ex Kützing)
Rabenhorst)

Municipality: Calheta (São Jorge Island)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Eunotia exigua* (Bréb.) Grun.)

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Eunotia exigua* (Bréb.) Grun.)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia exigua* (Bréb.) Rabh.); Bourrelly
& Manguin 1946a (as *Eunotia exigua* (Bréb.) Rabh.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Eunotia exigua* (Bréb.) Rabh.); Bourrelly
& Manguin 1946a (as *Eunotia exigua* (Bréb.) Rabh.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Krieger 1931 (as *Eunotia exigua* Bréb.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Eunotia exigua* (Bréb.) Grun.)

Site: Pico da Vara

References: Manguin 1942 (as *Eunotia exigua* (Bréb.) Rabh.); Bourrelly & Manguin 1946a (as *Eunotia exigua* (Bréb.) Rabh.); Mölder 1947 (as *Eunotia exigua* (Bréb.) Grun.)

Site: Pico Verde

References: Manguin 1942 (as *Eunotia exigua* (Bréb.) Rabh.); Bourrelly & Manguin 1946a (as *Eunotia exigua* (Bréb.) Rabh.)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Site: Lagoa do Negro

References: Mölder 1947 (as *Eunotia exigua* (Bréb.) Grun.); Gonçalves 1996 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Municipality: Ribeira Grande (São Miguel Island)

Site: Ribeira Grande

Reference: Gonçalves et al. 2008 (as *Eunotia exigua*)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Eunotia exigua* (Bréb.) Rabh.); Bourrelly & Manguin 1946a (as *Eunotia exigua* (Bréb.) Rabh.)

Site: Lagoa Comprida

References: Manguin 1942 (as *Eunotia exigua* (Bréb.) Rabh.); Bourrelly & Manguin 1946a (as *Eunotia exigua* (Bréb.) Rabh.)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Eunotia exigua* (Bréb.) Rabh.); Bourrelly & Manguin 1946a (as *Eunotia exigua* (Bréb.) Rabh.)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Site: São Jorge Island

References: Johansson 1977 (as *Eunotia exigua* (Bréb.) Grun.); Gonçalves et al. 2010 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia exigua* (Brébisson ex Kützing) Rabenhorst)

Site: Terceira Island

Formatada: Portug
(Portugal)

Formatada: Portug
(Portugal)

References: Johansson 1977 (as *Eunotia exigua* (Brèb.) Grun.);
Gonçalves et al. 2010 (as *Eunotia exigua* (Brebisson ex Kützing)
Rabenhorst)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia exigua* var. *exigua* (Brebisson ex
Kützing) Rabenhorst)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia exigua* (Brébisson ex Kützing)
Rabenhorst)

***Eunotia exigua* var. *tenella* (Grunow) Nörpel-Schempp & Alles in
Alles, Nörpel & Lange-Bertalot 1991, v. 53 (1-2): p. 180; pl. 2, fig.
24-25 3 [CAS ref. 007325]**

Basionym: *Eunotia arcus* var. *tenella* Grunow in Van Heurck 1882-1885 [CAS ref.
000896]

Nomenclatural synonym: *Eunotia tenella* (Grunow in Van Heurck) Hustedt in
Schmidt 1913 [CAS ref. 012495]

Distribution (Fig. 384):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst var.
tenella (Grunow) Nörpel & Alles)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia tenella* (Grunow) Hustedt)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Eunotia tenella*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Eunotia tenella*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

- Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia tenella*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst var. *tenella* (Grunow) Nörpel & Alles)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
Reference: Nunes et al. 2002 (as *Eunotia exigua* (Bréb.) Rabenhorst var. *tenella* (Grunow) Nörpel & Alles)
- Municipality: Anadia (District: Aveiro)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia tenella*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- Reference: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia tenella*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia tenella*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia tenella*)
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, upstream of Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia exigua* (Bréb.) Rabenhorst var. *tenella* (Grunow) Nörpel & Alles)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Eunotia tenella* (Grunow) Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Eunotia tenella*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Eunotia tenella*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia tenella* (Grunow) Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Eunotia tenella*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Formatada: Portug
(Portugal)

References: Gil 1988 (as *Eunotia tenella* (Grun.) A. Cleve); Gil et al. 1989-1990 (as *Eunotia tenella*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia tenella* (Grunow) Hustedt)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Eunotia tenella* (Grunow) Hustedt)

Site: Sabugueiro, Lagoacho Reservoir

Reference: Santos et al. 2002 (as *Eunotia tenella* (Grunow) Hustedt)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Eunotia tenella* (Grunow) Hustedt)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Eunotia tenella* (Grunow) Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Eunotia tenella* (Grunow) Hustedt); Gil et al. 1991 (as *Eunotia tenella*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia tenella* (Grun.) Hust., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia tenella* (Grun.) Hust.); Bourrelly & Manguin 1946a (as *Eunotia tenella* (Grun.) Hust.)

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Eunotia arcus* var. *tenella* Ehr.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Eunotia arcus* var. *tenella* Ehr.)

Site: Pico Verde

References: Manguin 1942 (as *Eunotia tenella* (Grun.) Hust.); Bourrelly & Manguin 1946a (as *Eunotia tenella* (Grun.) Hust.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Eunotia arcus* var. *tenella* Ehr., fossil)

Municipality: Not Specified

Site: Terceira Island

Reference: Johansson 1977 (as *Eunotia tenella* (Grun.) Hust.)

Site: Not Specified

Formatada: Inglês Unido

Reference: Gonçalves 2008 (as *Eunotia exigua* var. *tenella* (Grunow) Nörpel & Alles)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia exigua* (Bréb.) Rabenhorst var. *tenella* (Grunow) Nörpel et Alles)

***Eunotia faba* (Ehrenberg) Grunow in Van Heurck 1882-1885**
[CAS ref. 000896]

Distribution (Fig. 385):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia faba*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia faba*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia faba*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia faba*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Formatada: Portug
(Portugal)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Eunotia faba* (Ehr.) Grun.)
Site: Nueme
Reference: Carvalho 1913 (as *Eunotia faba* (Ehr.) Grun.)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia faba*)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia faba* (Ehr.) Grunow)

Subregion: Serra da Estrela
Site: Serra da Estrela
Reference: Henriques 1883 (as *Eunotia faba* Kützing)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Eunotia faba*); Almeida 1998 (as *Eunotia faba* Ehrenberg)

REGION: LISBOA

Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Eunotia faba* (Ehr.) Grun., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia faba* (Ehr.) Grun., fossil)

Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia faba* (Ehr.) Grun., fossil)
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia faba* (Ehr.) Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Eunotia faba* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia faba* (Ehr.) Grun.)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Eunotia faba* (Ehr.) Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Comprida
References: Manguin 1942 (as *Eunotia faba* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia faba* (Ehr.) Grun.)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Eunotia faba* Grunow)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Eunotia faba* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia faba* (Ehr.) Grun.)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Eunotia faba* Grunow)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia faba* Grunow)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Eunotia faba* Grunow)
Site: Not Specified
Reference: Gonçalves 2008 (as *Eunotia faba* Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia faba* Grunow)

***Eunotia fallax* A. Cleve 1895**, p. 33; pl. 1, fig. 35 [CAS ref. 000243]

Distribution (Fig. 386):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Eunotia fallax* A. Cleve)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

Reference: Manguin 1942 (as *Eunotia fallax* A. Cleve)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

Reference: Manguin 1942 (as *Eunotia fallax* A. Cleve)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Eunotia fallax* A. Cleve); Bourrelly &

Manguin 1946a (as *Eunotia fallax* A. Cleve)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Eunotia fallax* A. Cleve); Bourrelly &

Manguin 1946a (as *Eunotia fallax* A. Cleve)

Site: Lagoa Comprida

Reference: Manguin 1942 (as *Eunotia fallax* A. Cleve)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

Reference: Manguin 1942 (as *Eunotia fallax* A. Cleve)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Eunotia fallax* Cleve)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia fallax* Cleve)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia fallax* Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia fallax* A. Cleve var. *fallax*)

***Eunotia fidelensis* C. Zimmermann 1915b**, p. 35; pl. 4, fig. 7 [CAS ref. 001930]

Distribution (Fig. 387):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1915b (as *Eunotia fidelensis* Zimmermann)
Site: Torre, Ocreza River (Tagus Basin)
Reference: Zimmermann 1915b (as *Eunotia fidelensis* Zimmermann)

***Eunotia flexuosa* (Brébisson in Kützing) Kützing 1849**, p. 6 [CAS ref. 000596]

Basionym: *Synedra flexuosa* Brébisson ex Kützing 1846 [CAS ref. 002752]

Distribution (Fig. 388):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia flexuosa*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia flexuosa*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia flexuosa*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Eunotia flexuosa* Kützing)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia flexuosa* Bréb. ex Kützing)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Eunotia flexuosa* (Brébisson) Kützing)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia flexuosa* (Brébisson) Kützing)

***Eunotia flexuosa* var. *vasconiensis* Manguin in Allorge & Manguin 1941, p. 175; fig. 51 [CAS ref. 001076]**

Distribution (Fig. 389):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Eunotia flexuosa* Kütz. var. *vasconiensis* Manguin); Bourrelly & Manguin 1946a (as *Eunotia flexuosa* Kütz. var. *vasconiensis* Manguin)

***Eunotia formica* Ehrenberg 1843a, p. 414 (126) [CAS ref. 000294]**

Distribution (Fig. 390):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia formica* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia formica*)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia formica* Ehrenberg)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia formica* Ehrenberg)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia formica* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia formica*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia formica* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia formica*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia formica* Ehrenberg)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia formica* Ehrenberg)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia formica* Ehrenberg)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Sobral do Campo
 Reference: Zimmermann 1909b (as *Eunotia formica* Ehr.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)

Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia formica* Ehrenberg)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia formica* Ehrenberg)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia formica* Ehrenberg)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Eunotia formica* Ehrenberg); Gil et al. 1991
(as *Eunotia formica*)

***Eunotia formica* var. *intermedia* Grunow 1865**, p. 3; pl. 1, fig. 2 e
[CAS ref. 000430]

Distribution (Fig. 391):

REGION: NORTE
Subregion: Minho-Lima
Municipality: Paredes de Coura (District: Viana do Castelo)
Site: Insalde
Reference: Zimmermann 1910 (as *Eunotia formica* Ehr. var. *intermedia*
Grun.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia formica* Ehrenberg var.
intermedia Grunow)

***Eunotia glacialis* F. Meister 1912**, p. 85; pl. 10, fig. 2-3 [CAS ref.
000642]

Synonym: *Eunotia valida* Hustedt 1930 [CAS ref. 000502], according to Krammer
& Lange-Bertalot 1991a, p. 206

Distribution (Fig. 392):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Eunotia glacialis* Meister)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia glacialis* Meister)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia glacialis* Meister)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia glacialis* Meister)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Eunotia glacialis* Meister)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia glacialis* Meister)

***Eunotia gracilis* W. Smith 1853**, p. 16; pl. 30, fig. 249 [CAS ref. 000863]

Basionym: *Himantidium gracile* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 393):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Eunotia gracilis* W. Sm.)

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Eunotia gracilis* W. Sm.)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Eunotia gracilis* (Ehr.) Rbh.)

Subregion: Minho-Lima

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1910 (as *Eunotia gracilis* W. Sm.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Eunotia gracilis* (Ehr.) Rabenh.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Eunotia gracilis* (Ehr.) Rabenh.)

Site: Diz River

Reference: Carvalho 1913 (as *Eunotia gracilis* (Ehr.) Rabenh.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Eunotia gracilis* (Ehr.) Rabenh.)

Site: Mondego River (Mondego Basin)

Reference: Zimmermann 1910 (as *Eunotia gracilis* W. Sm.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1910 (as *Eunotia gracilis* W. Sm.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)

Site: Varzielas, Águeda River (Vouga Basin)

Formatada: Português (Portugal)

Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia gracilis* (Ehr.) Rabenhorst)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Santa Cruz
Reference: Zimmermann 1910 (as *Eunotia gracilis* W. Sm.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Eunotia gracilis*)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia gracilis* (Ehr.) Rabenh., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Eunotia gracilis* Sm.); Chaves 1908 (as *Himantidium gracile* Ehr.)
Site: Pico da Vara
Reference: Holmboe 1901 (as *Eunotia gracilis* (Ehr.) Rabenh.)

***Eunotia gracilis* var. *ventralis* Ehrenberg [CAS ref. -]**

Formatada: Francê

Distribution (Fig. 394):

Código de campo a

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Eunotia gracilis* var. *ventralis* Ehr., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Eunotia gracilis* var. *ventralis* Ehr., fossil)

***Eunotia groenlandica* (Grunow) Nörpel-Schempp & Lange-Bertalot in Lange-Bertalot & Metzeltin 1996, v. 2: p. 51-52; pl. 17, fig. 25-27 [CAS ref. 007048]**

Basionym: *Eunotia paludosa* var. *groenlandica* Grunow in Van Heurck 1880-1887 [CAS ref. 000896]

Nomenclatural synonym: *Eunotia fallax* var. *groenlandica* (Grunow) Lange-Bertalot & Nörpel in Lange-Bertalot 1993 [CAS ref. 008467]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia fallax* var. *groenlandica* (Grunow) Lange-Bertalot & Nörpel)

***Eunotia implicata* Nörpel-Schempp, Alles & Lange-Bertalot in Alles, Nörpel & Lange-Bertalot 1991, v. 53 (1-2): p. 206; pl. 7, fig. 19-32 [CAS ref. 007325]**

Distribution (Fig. 395):

REGION: CENTRO

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia implicata* Nörpel & Lange-Bertalot)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Eunotia implicata* Nörpel & Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Eunotia implicata* Nörpel, Lange-Bertalot & Alles)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia implicata* Nörpel, Lange-Bertalot & Alles)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia implicata* Nörpel, Lange-Bertalot & Alles)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia implicata* Nörpel, Lange-Bertalot & Alles)
Site: Not Specified
Reference: Gonçalves 2008 (as *Eunotia implicata* Nörpel, Lange-Bertalot & Alles)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia implicata* Nörpel, Lange-Bertalot & Alles)

***Eunotia impressa* Ehrenberg 1854**, pl. 3/4, fig. 20, pl. 14/66 [CAS ref. 000966]

Distribution (Fig. 396):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia impressa* Ehrenberg)

***Eunotia impressa* var. *angusta* Van Heurck 1881**, pl. 33, fig. 22 [CAS ref. 001035]

Distribution (Fig. 397):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Eunotia impressa* var. *angusta* Ehr.)

***Eunotia incisa* W. Gregory 1854**, p. 96; pl. 4, fig. 4 [CAS ref. 000393]

Distribution (Fig. 398):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Arouca (District: Aveiro)
Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia incisa* Gregory var. *incisa*)

REGION: CENTRO

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Eunotia incisa* Gregory)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Eunotia incisa* Gregory)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Eunotia incisa* Greg., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Eunotia incisa* Greg., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Eunotia incisa* Gregory)

Site: Lagoa da Joanhina

Reference: Gonçalves 1996 (as *Eunotia incisa* Gregory)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Eunotia incisa* Gregory)

Site: Lagoa do Negro

Reference: Gonçalves 1996 (as *Eunotia incisa* Gregory)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Eunotia incisa* Gregory)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia incisa* Gregory)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia incisa* Gregory)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia incisa* Gregory)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Eunotia incisa* Gregory)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia incisa* Gregory)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Eunotia incisa* Gregory var. *incisa*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia incisa* Gregory var. *incisa*)

***Eunotia inflata* (Grunow) Nörpel-Schempp & Lange-Bertalot in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 52; pl. 12, fig. 1-3 [CAS ref. 007048]

Basionym: *Eunotia praerupta* var. *inflata* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 399):

REGION: NORTE
Subregion: Grande Porto
Municipality: Maia (District: Porto)
Site: Parada
Reference: Silva 1950b (as *Eunotia praerupta* Ehr. var. *inflata* Grun.)

***Eunotia intermedia* (Krasske ex Hustedt) Nörpel-Schempp & Lange-Bertalot in Lange-Bertalot 1993**, p. 32; Bacill. 2/3, fig. 143:10-15 [CAS ref. 008467]

Basionym: *Eunotia pectinalis* var. *minor* f. *intermedia* Krasske ex Hustedt

Distribution (Fig. 400):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Arouca (District: Aveiro)
Site: Serra da Freita, Arões, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Eunotia intermedia* (Krasske ex Hustedt) Nörpel & Lange-Bertalot); Nunes 2007 (as *Eunotia intermedia* (Krasske ex Hustedt) Nörpel & Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Eunotia intermedia* (Krasske ex Hustedt) Nörpel & Lange-Bertalot)
Municipality: Vale de Cambra (District: Aveiro)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia intermedia* (Krasske ex Hustedt) Nörpel & Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia intermedia* (Krasske)
Nörpel & Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia intermedia* (Krasske)
Nörpel & Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia intermedia* (Krasske)
Nörpel & Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Eunotia intermedia* (Hustedt) Nörpel &
Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia intermedia* (Krasske ex Hustedt)
Nörpel & Lange-Bertalot)

***Eunotia lapponica* Grunow in Cleve-Euler 1895 [CAS ref. 000243]**

Distribution (Fig. 401):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia lapponica* Cleve, fossil)

***Eunotia lunaris* (Ehrenberg) Grunow 1877, p. 170 [CAS ref. 000437]**

Basionym: *Synedra lunaris* Ehrenberg 1832b [CAS ref. 000282]

Synonym: *Eunotia bilunaris* (Ehrenberg) Schaarschmidt [CAS ref. 002834],
according to Krammer & Lange-Bertalot 1991a, p. 180

Distribution (Fig. 402):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

- Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Eunotia lunaris*)
- Subregion: Ave
Municipality: Vieira do Minho (District: Braga)
Site: Salomonde Reservoir, Cávado River (Cávado Basin)
Reference: Oliveira 1982a (as *Eunotia lunaris*)
- Subregion: Cávado
Municipality: Barcelos (District: Braga)
Site: Manhente, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Eunotia lunaris*)
Municipality: Braga (District: Braga)
Site: Padim da Graça, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Eunotia lunaris*)
Municipality: Not Specified
Site: Entrepontes, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Eunotia lunaris*)
- Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Not Specified
Reference: Colmeiro 1889 (as *Synedra lunaris* Ehrenb.)
- Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Eunotia lunaris*)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Eunotia lunaris*)

REGION: CENTRO

- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)

Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)

Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)

Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia lunaris*)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Eunotia lunaris* (Ehrenberg) Grunow)

Subregion: Beira Interior Norte

- Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.)
 Site: Meios
 References: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.); Santos & Carvalho 2001 (as *Eunotia lunaris* (Ehr.) Grun.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.); Santos & Carvalho 2001 (as *Eunotia lunaris* (Ehr.) Grun.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.)
 Site: Vela
 Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Eunotia lunaris* (Ehr.))
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Eunotia lunaris*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Eunotia lunaris*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia lunaris* (Ehr.) Grunow)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Eunotia lunaris*)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Eunotia lunaris*)
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Eunotia lunaris*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Eunotia lunaris*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Eunotia lunaris* (Ehrenberg) Grunow); Gil et al. 1991 (as *Eunotia lunaris*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Eunotia lunaris*)
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Eunotia lunaris* (Ehr.) Grun., fossil)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Eunotia lunaris*); Oliveira 1996 (as *Eunotia lunaris*)
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Eunotia lunaris* (Ehrenberg) Grunow)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Eunotia lunaris*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Eunotia lunaris*)
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)

Site: Not Specified
Reference: Silva 1946b (as *Eunotia lunaris* (Ehr.) Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Eunotia lunaris* (Ehr.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: O'Meara 1874 (as *Synedra lunaris*); Dyer 1875 (as *Synedra lunaris* Ehr.); Holmboe 1901 (as *Eunotia lunaris* (Ehr.) Grun.); Manguin 1942 (as *Eunotia lunaris* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia lunaris* (Ehr.) Grun.); Mölder 1947 (as *Eunotia lunaris* (Ehr.) Grun.)

Site: Pico da Vara

Reference: Holmboe 1901 (as *Eunotia lunaris* (Ehr.) Grun.)

Site: Ribeira Quente

References: Manguin 1942 (as *Eunotia lunaris* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia lunaris* (Ehr.) Grun.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Eunotia lunaris* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia lunaris* (Ehr.) Grun.)

***Eunotia lunaris* var. *bilunaris* (Ehrenberg) Grunow in Van Heurck 1882-1885, pl. 35, fig. 6B [CAS ref. 000896]**

Formatada: Inglês
Unido)

Basionym: *Synedra lunaris* var. *bilunaris* Brun 1880 [CAS ref. 000174]

Distribution (Fig. 403):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Eunotia lunaris* (Ehr.) var. *bilunaris* (Ehr.) Grun.)

***Eunotia lunaris* var. *excisa* Grunow in Van Heurck 1881, pl. 35, fig. 6c [CAS ref. 001035]**

Distribution (Fig. 404):

REGION: CENTRO

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfrazes
Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.)
Site: Cubo
Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.); Santos & Carvalho 2001 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.)
Site: Nueme
Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.)
Site: Vela
Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *excisa* Grun.)

***Eunotia lunaris* var. *subarcuata* (Naegeli in Kutzing) Grunow in Van Heurck 1881, pl. 35, fig. 2 [CAS ref. 001035]**

Basionym: *Synedra subarcuata* Nägeli ex Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 405):

REGION: NORTE

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Eunotia lunaris* var. *subarcuata*)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *subarcuata* (Naeg.) Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *subarcuata* (Naeg.) Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *subarcuata* (Naeg.) Grun.)

Site: Nueme

Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *subarcuata* (Naeg.) Grun.)

Site: Vela

Reference: Carvalho 1913 (as *Eunotia lunaris* (Ehr.) Grun. var. *subarcuata* (Naeg.) Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Eunotia lunaris* (Ehr.) Grun. var. *subarcuata* (Naeg.) Grun.); Bourrelly & Manguin 1946a (as *Eunotia lunaris* (Ehr.) Grun. var. *subarcuata* (Naeg.) Grun.)

***Eunotia microcephala* Krasske 1932**, p. 102; fig. 7 [CAS ref. 000583]

Distribution (Fig. 406):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Eunotia microcephala* Krasske)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia microcephala* Krasske)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Eunotia microcephala* Krasske)

***Eunotia microcephala* var. *tridentata* (Ant. Mayer) Hustedt 1932**, p. 290; fig. 756 c-i [CAS ref. 000506]

Basionym: *Eunotia tridentula* f. *tridentata* Ant. Mayer 1918 [CAS ref. 001373]

Distribution (Fig. 407):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia microcephala* Krasske var. *tridentata* (A. Mayer) Hust.); Bourrelly & Manguin 1946a (as *Eunotia microcephala* Krasske var. *tridentata* (A. Mayer) Hust.)

***Eunotia minor* (Kützing) Grunow in Van Heurck 1881**, pl. 33, fig. 20-21 [CAS ref. 001035]

Basionym: *Himantidium minus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Eunotia pectinalis* var. *minor* (Kützing) Rabenhorst 1864 [CAS ref. 000775]

Distribution (Fig. 408):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis* var. *minor*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis* var. *minor*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis* var. *minor*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis* var. *minor*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis* var. *minor*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis* var. *minor*)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck); Ferreira da Silva et al. 2009 (as *Eunotia minor* (Kütz.) Grunow in Van Heurck)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Eunotia minor* (Kützing) Grunow)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow); Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
Subregion: Grande Porto
Municipality: Maia (District: Porto)
Site: Parada
Reference: Silva 1950b (as *Eunotia pectinalis* Rabenh. var. *minor* (Kütz.) Rabh.)
Municipality: Porto (District: Porto)
Site: Requezende
Reference: Silva 1950b (as *Eunotia pectinalis* Rabenh. var. *minor* (Kütz.) Rabh.)
Site: Not Specified
Reference: Colmeiro 1889 (as *Himantidium minus* Kg.)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Eunotia pectinalis* var. *minor*)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Eunotia pectinalis* var. *minor*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Eunotia pectinalis* var. *minor*)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Eunotia pectinalis* var. *minor*)
Subregion: Tâmega
Municipality: Castelo de Paiva (District: Aveiro)
Site: Raiva
Reference: Tempère & Peragallo 1907-1915 (as *Eunotia minor* Rab.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Eunotia minor* (Kützing) Grunow)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Eunotia minor* (Kützing) Grunow)
Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
- Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*); Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia pectinalis* v. *minor*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck); Ferreira da Silva et al. 2009 (as *Eunotia minor* (Kütz.) Grunow in Van Heurck)

- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes et al. 2002 (as *Eunotia minor* (Kützing) Grunow in Van Heurck); Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck); Ferreira da Silva et al. 2009 (as *Eunotia minor* (Kütz.) Grunow in Van Heurck)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)
- Municipality: Anadia (District: Aveiro)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia pectinalis* v. *minor*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Eunotia pectinalis* v. *minor*); Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)

Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)

Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)

Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)

Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis* v. *minor*)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis* v. *minor*)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)

Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)

Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis* v. *minor*); Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)

Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis* v. *minor*)

Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia minor* (Kützing) Grunow)

Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)

Site: Silva Escura, upstream of Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)

Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Eunotia pectinalis* (Kg.) Rb. var. *minor* (Kg.) Rb.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia minor* (Kützing) Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Eunotia pectinalis* (O.Müll.) Rab. var. *minor* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *minor*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Lagoacho Reservoir

Reference: Santos et al. 2002 (as *Eunotia minor* (Kützing) Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Eunotia pectinalis* (O.Müller) Rab. var. *minor* (Kützing) Rabenhorst); Gil et al. 1991 (as *Eunotia pectinalis* v. *minor*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Eunotia pectinalis* var. *minor* (Kütz.) Rabenh., fossil)

Formatada: Inglês Unido

Formatada: Inglês Unido

Formatada: Português (Portugal)

REGION: ALENTEJO
Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia pectinalis* var. *minor* (Kütz.) Rabenh., fossil)

Formatada: Inglês
Unido)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Eunotia minor* (Kützing) Rabh.)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Eunotia minor* (Kützing) Rabh.)

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.))

Site: Ribeira de São João

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.))

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.))

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.))

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.))

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Negro

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.))

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.)); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.))

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Eunotia minor* (Kützing) Grunow)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia minor* (Kützing) Grunow)

Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.)); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.))

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia minor* (Kützing) Grunow)

Site: São Jorge Island

References: Johansson 1977 (as *Eunotia pectinalis* v. *minor* (Kütz.) Rab.); Gonçalves et al. 2010 (as *Eunotia minor* (Kützing) Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia minor* (Kützing) Grunow)

Site: Terceira Island

References: Johansson 1977 (as *Eunotia pectinalis* v. *minor* (Kütz.) Rab.); Gonçalves et al. 2010 (as *Eunotia minor* (Kützing) Grunow)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia minor* (Kützing) Grunow)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Eunotia minor* (Kützing) Grunow)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia minor* (Kützing) Grunow in Van Heurck)

***Eunotia minutula* Grunow 1862**, p. 22 (336); pl. 3/6, fig. 12 [CAS ref. 000428]

Distribution (Fig. 409):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: São Roque do Faial

Reference: Zimmermann 1909a (as *Eunotia minutula* Grun.)

***Eunotia monodon* Ehrenberg 1843a**, pl. 2/5, fig. 7, pl. 3/3, fig. 3 [CAS ref. 000294]

Distribution (Fig. 410):

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês
Reference: Silva 1950a (as *Eunotia monodon* Ehr.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia monodon*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia monodon*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia monodon*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia monodon*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia monodon* Ehrenberg)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Eunotia monodon* Ehrenberg)
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Eunotia monodon*)
- REGION: ALENTEJO
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Eunotia monodon* Ehrenberg)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Eunotia monodon* Ehrenberg)
 Subregion: Lezíria do Tejo
 Municipality: Alpiarça (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Eunotia monodon* Ehr., fossil)
 Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Eunotia monodon* Ehr., fossil)
- REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Eunotia monodon* Ehrenberg)

***Eunotia monodon* var. *major* (W. Smith) Hustedt 1930**, p. 186; fig. 255 [CAS ref. 000502]

Basionym: *Himantidium majus* (*major*) W. Smith 1856 [CAS ref. 001007]

Nomenclatural synonym: *Eunotia major* (W. Smith) Rabenhorst 1864 [CAS ref. 000775]

Distribution (Fig. 411):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Minho River (Minho Basin)

Reference: Zimmermann 1909b (as *Eunotia major* (W. Sm.) Rabenh.)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Eunotia monodon* Ehr. var. *maior* (W. Smith) Hust.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith) Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith) Hustedt)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Eunotia monodon* E. var. *maior* (W. Smith) Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith) Hustedt)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith) Hustedt)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith) Hustedt)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith)
Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia monodon* Ehr. v. *maior* (W. Smith)
Hustedt)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia major* (W. Sm.) Rabenh., fossil)

***Eunotia monodon* f. *curta* Grunow in Van Heurck 1882-1885, pl. 33, fig. 4 [CAS ref. 000896]**

Distribution (Fig. 412):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Nueme

Reference: Carvalho 1913 (as *Eunotia monodon* Ehr. forma *curta*)

***Eunotia mucophila* (Lange-Bertalot & Nörpel-Schempp) Lange-Bertalot in Metzeltin & Lange-Bertalot 2007, p. 111 [CAS ref. 012938]**

Basionym: *Eunotia bilunaris* var. *mucophila* Lange-Bertalot, Nörpel-Schempp & Alles in Alles, Nörpel & Lange-Bertalot 1991 [CAS ref. 007325]

Distribution (Fig. 413):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *mucophila* Lange-Bertalot, Nörpel & Alles); Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *mucophila* Lange-Bertalot, Nörpel & Alles); Ferreira da Silva et al. 2009 (as *Eunotia bilunaris* (Ehr.) Mills var. *mucophila* Lange-Bertalot, Nörpel & All

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *mucophila* Lange-Bertalot, Nörpel & Alles)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia bilunaris* (Ehrenberg) Mills var. *mucophila* Lange-Bertalot, Nörpel & Alles)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia mucophila* (Lange-Bertalot & Nörpel) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia bilunaris* var. *mucophila* Lange-Bertalot, Nörpel & Alles)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia bilunaris* (Ehr.) Mills var. *mucophila* Lange-Bertalot, Nörpel & All)

***Eunotia naegelii* Migula 1907**, p. 203 [CAS ref. 001770]

Basionym: *Synedra alpina* Nägeli in Kutzing 1849 [CAS ref. 000596]

Synonym: *Eunotia alpina* (Nägeli in Kützing) Hustedt in Schmidt 1913 [CAS ref. 012496], according to Krammer & Lange-Bertalot 1991a, p. 182

Distribution (Fig. 414):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia naegelii* Migula)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia naegelii* Migula)

Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Eunotia naegelii* Migula)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia naegelii* Migula)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia naegelii* Migula)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia naegelii* Migula)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia naegeli* Migula)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia naegelii* Migula)

***Eunotia neocompacta* Mayama in Mayama & Kawashima 1998**, p. 69 [CAS ref. 012652]

Basionym: *Eunotia exigua* var. *compacta* Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 415):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

References: Johansson 1977 (as *Eunotia exigua* v. *compacta* (Brèb.) Grun.); Gonçalves et al. 2010 (as *Eunotia neocompacta* Mayama)

***Eunotia paludosa* Grunow 1862**, p. 22 (336); pl. 3/6, fig. 10 [CAS ref. 000428]

Distribution (Fig. 416):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia paludosa* Grunow)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Eunotia paludosa* Grunow)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
References: Silva 1946a (as *Eunotia paludosa* Grun., fossil); Silva 1946b
(as *Eunotia paludosa* Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia paludosa* Grunow in Van
Heurck)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Eunotia paludosa* Grunow in Van
Heurck)
Site: São Jorge Island
References: Johansson 1977 (as *Eunotia paludosa* Grun.); Gonçalves et
al. 2010 (as *Eunotia paludosa* Grunow in Van Heurck)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia paludosa* Grunow in Van
Heurck)
Site: Not Specified
Reference: Gonçalves 2008 (as *Eunotia paludosa* Grunow in Van
Heurck)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia paludosa* Grunow in Van Heurck
var. *paludosa*)

***Eunotia paludosa* var. *trinacria* (Krasske) Nörpel-Schempp &
Alles in Alles, Nörpel & Lange-Bertalot 1991, v. 53 (1-2): p. 176;
pl. 1, fig. 36-59 [CAS ref. 007325]**

Basionym: *Eunotia trinacria* Krasske 1929 [CAS ref. 000582]

Distribution (Fig. 417):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico Verde

References: Manguin 1942 (as *Eunotia trinacria* Krasske); Bourrelly & Manguin 1946a (as *Eunotia trinacria* Krasske)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Eunotia trinacria* Krasske); Bourrelly & Manguin 1946a (as *Eunotia trinacria* Krasske)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia trinacria* Krasske)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia paludosa* Grunow var. *trinacria* (Krasske) Nörpel et Alles)

***Eunotia parallela* Ehrenberg 1843a**, p. 414 (126) [CAS ref. 000294]

Distribution (Fig. 418):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia parallela* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia parallela*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia parallela* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia parallela*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia parallela* Ehrenberg); Gil et al. 1989-1990 (as *Eunotia parallela*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia parallela* Ehrenberg)
 Subregion: Oeste
 Municipality: Óbidos (District: Leiria)
 Reference: Silva 1946b (as *Eunotia parallela* Ehr., fossil)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Pond near Lagoa Comprida
 Reference: Santos et al. 2002 (as *Eunotia parallela* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Not Specified
 Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Eunotia parallela* Ehrenberg)
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Eunotia parallela* Ehrenberg)

REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Eunotia parallela*)

***Eunotia pectinalis* (Kützing) Rabenhorst 1864**, p. 73 [CAS ref. 000775] as *E. pectinalis* Dillw.

Basionym: *Himantidium pectinale* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 419):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis*)

Municipality: Terras de Bouro (District: Braga)

Site: Caldas do Gerês, Vilar da Veiga

Reference: Sampaio 1950 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia pectinalis*)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Eunotia pectinalis* (Kützing) Rabenhorst)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Eunotia pectinalis* Rabenh.)

Municipality: Porto (District: Porto)
 Site: Prelada
 Reference: Silva 1950b (as *Eunotia pectinalis* Rabenh.)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Himantidium pectinale* Kg.)

Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Gondar Stream (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Eunotia pectinalis*)
 Site: Sains, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Eunotia pectinalis*)
 Site: Tourim, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Eunotia pectinalis*)

Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Eunotia pectinalis*)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
 Site: Barragem de Covas, Coura River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Eunotia pectinalis*)

Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: Alhada, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Eunotia pectinalis*)
 Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Eunotia pectinalis*)

Municipality: Not Specified
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Eunotia pectinalis*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Ave River (Ave Basin)
 Reference: Cerqueira da Silva 1991 (as *Eunotia pectinalis*)
 Site: Serra do Gerês
 References: Henriques 1884 (as *Eunotia pectinalis* Rabenh.); Colmeiro 1889 (as *Himantidium pectinale* Kg.); Sampaio 1950 (as *Himantidium pectinale* Kützing); Silva 1950a (as *Eunotia pectinales* (Kütz.) Rabh.)

REGION: CENTRO
 Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Coimbra
 Reference: Zimmermann 1909b (as *Eunotia pectinalis* (Dillw.) Rabenh.)

Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: de Figueiredo et al. 2006 (as *Eunotia pectinalis* (Dillwyn) Rabenhorst)

Municipality: Montemor-o-Velho (District: Coimbra)

- Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Eunotia pectinalis* (Dillwyn) Rabenhorst)
- Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Eunotia pectinalis* (Dillwyn) Rabenhorst)
- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*); Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)

- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Eunotia pectinalis*); Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Perrães, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Eunotia pectinalis*); Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Eunotia pectinalis*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (*Eunotia pectinalis* (Kützing) Rabenhorst)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Guarda
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Meios
 References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Mondego River (Mondego Basin)
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Site: Vela
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh.)
 Municipality: Seia (District: Guarda)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 Reference: Santos et al. 2002 (as *Eunotia pectinalis* (Dillwyn) Rabenhorst)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Eunotia pectinalis* (Dillwyn) Rabenhorst)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)

Site: Campo das Navas, São Fiel
 Reference: Zimmermann 1909b (as *Eunotia pectinalis* (Dillw.) Rabenh.)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Serra da Gardunha
 Reference: Zimmermann 1909b (as *Eunotia pectinalis* (Dillw.) Rabenh.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Eunotia pectinalis* (Dillwyn) Rabenhorst)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rabenhorst); Gil et al. 1989-1990 (as *Eunotia pectinalis*)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Catefica
 Reference: Zimmermann 1909b (as *Eunotia pectinalis* (Dillw.) Rabenh.)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Eunotia pectinalis*); Cerqueira da Silva et al. 1993 (as *Eunotia pectinalis*); Cerqueira da Silva 1994 (as *Eunotia pectinalis*)
 Site: Not Specified
 References: Calado 1990 (as *Eunotia pectinalis* (O. Müller) Rabenhorst); Gil et al. 1991 (as *Eunotia pectinalis*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia pectinalis* (Kütz.) Rabenh., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia pectinalis* (Kütz.) Rabenh., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh.)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh.)

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Eunotia pectinalis* (Kütz.) Rab.)

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Himantidium pectinale* Ktz.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh.)

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh.);

Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh.)

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Eunotia pectinalis* (Kützing)

Rabenhorst)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia pectinalis* (Kützing)

Rabenhorst)

Site: Pico Island

References: Johansson 1977 (as *Eunotia pectinalis* (Kütz.) Rab.);

Gonçalves et al. 2010 (as *Eunotia pectinalis* (Kützing) Rabenhorst)

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: São Jorge Island
References: Johansson 1977 (as *Eunotia pectinalis* (Kütz.) Rab.);
Gonçalves et al. 2010 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: Terceira Island
References: Johansson 1977 (as *Eunotia pectinalis* (Kütz.) Rab.);
Gonçalves et al. 2010 (as *Eunotia pectinalis* (Kützing) Rabenhorst)
Site: Not Specified
Reference: Gonçalves 2008 (as *Eunotia pectinalis* (Kützing) Rabenhorst)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia pectinalis* (Dillwyn) Rabenhorst var. *pectinalis*)

***Eunotia pectinalis* f. *affines* Manguin 1942**, p. 127; pl. 1, fig. 20 (as *Eunotia pectinalis* var. *minor* f. *affines*) [CAS ref. 000623]

Distribution (Fig. 420):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Comprida
References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *affines*); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *affines*)

***Eunotia pectinalis* f. *curta* Van Heurck 1881**, p. 143; pl. 33, fig. 15 (1881) [CAS ref. 001035]

Distribution (Fig. 421):

REGION: NORTE
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Sampaio 1950 (as *Eunotia pectinalis* Rabenh. for. *curta*)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*)

Site: Caldeirão

References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh. fa. *curta*)

Site: Diz River

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*)

Site: Gonçalves

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*)

Site: Meios

References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh. fa. *curta*)

Site: Nueme

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *curta*)

***Eunotia pectinalis* f. *elongata* Van Heurck 1882-1885**, p. 143; pl. 33, fig. 16 [CAS ref. 000896]

Distribution (Fig. 422):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *elongata*); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh. fa. *elongata*)

Site: Gonçalves

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *elongata*)
Site: Guarda
Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *elongata*)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *elongata*)
Site: Nueme
Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *elongata*)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. forma *elongata*)

***Eunotia pectinalis* f. *impressa* (Ehrenberg) Hustedt 1930**, p. 182; fig. 239 (as *Eunotia pectinalis* var. *minor* f. *impressa*) [CAS ref. 000502]

Basionym: *Eunotia impressa* Ehrenberg 1854a [CAS ref. 000966]

Distribution (Fig. 423):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.) Rabenh. f. *impressa* (Ehr.))

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *impressa* (Ehr.) Hust.); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *impressa* (Ehr.) Hust.)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *impressa* (Ehr.) Hust.); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *impressa* (Ehr.) Hust.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Eunotia pectinalis* (Kütz.) Rabenh. var. *minor* (Kütz.) Rabenh. f. *impressa* (Ehr.))

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *impressa* (Ehr.) Hust.); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *minor* (Kütz.) fo. *impressa* (Ehr.) Hust.)

***Eunotia pectinalis* var. *rostrata* H. Germain 1981**, p. 96; pl. 33, fig. 8-14 [CAS ref. 009183]

Distribution (Fig. 424):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *rostrata* Germain)

***Eunotia pectinalis* var. *undulata* (Ralfs) Rabenhorst 1864, p. 74**
[CAS ref. 000775]

Basionym: *Fragilaria pectinalis* var. *undulata* Ralfs 1843b [CAS ref. 001482]

Distribution (Fig. 425):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst); Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

- Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
- Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Site: Raivo, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)

- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Eunotia pectinalis* (Kützing) Rabenhorst var. *undulata* (Ralfs) Rabenhorst)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *undulata* Ralfs.); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *undulata* Ralfs.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *undulata* Ralfs.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *undulata* (Ralfs) Rabenhorst)
- Subregion: Oeste
 Municipality: Óbidos (District: Leiria)
 Site: Not Specified
 Reference: Silva 1946b (as *Eunotia pectinalis* var. *undulata* (Ralfs) Rabenh., fossil)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified

Reference: Gil et al. 1991 (as *Eunotia pectinalis* v. *undulata*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Eunotia pectinalis* var. *undulata* (Ralfs) Rabenh., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia pectinalis* var. *undulata* (Ralfs) Rabenh., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *undulata* Ralfs); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *undulata* Ralfs)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia pectinalis* (Kütz.) Rabhenhorst var. *undulata* (Ralfs) Rabenhorst)

***Eunotia pectinalis* var. *ventralis* (Ehrenberg) Hustedt 1911, p. 276; pl. 3, fig. 26, 17 [CAS ref. 000492]**

Formatada: Francê

Basionym: *Eunotia ventralis* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 426):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Eunotia pectinalis* Rabenh. var. *ventralis* (Ehr.) Hust.)

REGION: CENTRO

- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *ventralis*)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *ventralis*)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *ventralis*)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *ventralis*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *ventralis*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia pectinalis* (O. Müll.) Rab. v. *ventralis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Eunotia pectinalis* v. *ventralis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Eunotia pectinalis* v. *ventralis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Eunotia pectinalis* (Kütz.) Rabh. var. *ventralis* (Ehr.) Hust.); Bourrelly & Manguin 1946a (as *Eunotia pectinalis* (Kütz.) Rabh. var. *ventralis* (Ehr.) Hust.)

***Eunotia pectinalis* var. *ventricosa* (Ehrenberg) Grunow in Van Heurck 1882-1885, pl. 33, fig. 19 B [CAS ref. 000896]**

Basionym: *Heterocampa ventricosa* Ehrenberg 1869 [CAS ref. 000309]

Distribution (Fig. 427):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *ventricosa* Grun.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *ventricosa* Grun.)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *ventricosa* Grun.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *ventricosa* Grun.); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *ventricosa* Grun.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *ventricosa* Grun.)

***Eunotia pectinoides* C. Zimmermann 1915b**, p. 35; pl. 4, fig. 8
[CAS ref. 001930]

Distribution (Fig. 428):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Sobral do Campo
Reference: Zimmermann 1915b (as *Eunotia pectinoides* Zimmermann)

***Eunotia praerupta* Ehrenberg 1843a**, p. 414 (126) [CAS ref. 000294]

Distribution (Fig. 429):

REGION: NORTE
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Eunotia praerupta* Ehr.)

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Eunotia praerupta* Ehr.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Eunotia praerupta* Ehrenberg)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia praerupta* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Eunotia praerupta* Ehr.); Bourrelly & Manguin 1946a (as *Eunotia praerupta* Ehr.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia praerupta* Ehrenberg)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia praerupta* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia praerupta* Ehrenberg)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia praerupta* Ehrenberg)

***Eunotia praerupta* var. *musciola* J.B. Petersen 1928a**, p. 377; fig. 3
[CAS ref. 000742]

Distribution (Fig. 430):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia praerupta* Ehr. var. *musciola* B. Peters); Bourrelly & Manguin 1946a (as *Eunotia praerupta* Ehr. var. *musciola* B. Peters)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

Reference: Bourrelly & Manguin 1946a (as *Eunotia praerupta* Ehr. var. *musciola* B. Peters)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

Reference: Bourrelly & Manguin 1946a (as *Eunotia praerupta* Ehr. var. *musciola* B. Peters)

***Eunotia rhomboidea* Hustedt 1950**, p. 435; pl. 36, fig. 34-41 109
[CAS ref. 000522]

Distribution (Fig. 431):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia rhomboidea* Hustedt)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Eunotia rhomboidea* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia rhomboidea* Hustedt)

***Eunotia robusta* Ralfs in Pritchard 1861, p. 763 [CAS ref. 001063]**

Distribution (Fig. 432):

REGION: NORTE

Subregion: Cávado

Municipality: Not Specified

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Eunotia robusta*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia robusta* Ralfs)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia robusta* Ralfs); Gil et al. 1989-1990 (as *Eunotia robusta*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia robusta* Ralfs)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia robusta* Ralfs)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Eunotia robusta* Ralfs); Gil et al. 1989-1990 (as *Eunotia robusta*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Eunotia robusta* Ralfs); Gil et al. 1989-1990 (as *Eunotia robusta*)

Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia robusta* Ralfs)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia robusta* Ralfs)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia robusta* Ralfs); Gil et al. 1989-1990 (as *Eunotia robusta*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia robusta* Ralfs)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia robusta* Ralfs)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Eunotia robusta* Ralfs)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Serra da Gardunha
 Reference: Zimmermann 1909b (as *Eunotia robusta* Ralfs)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia robusta* Ralfs); Gil et al. 1989-1990 (as *Eunotia robusta*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Eunotia robusta* Ralfs); Gil et al. 1989-1990 (as *Eunotia robusta*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia robusta* Ralfs)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia robusta* Ralfs)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Eunotia robusta*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia robusta* Ralfs)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia robusta* Ralfs); Gil et al. 1989-1990 (as *Eunotia robusta*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Eunotia robusta*)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia robusta* Ralfs, fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia robusta* Ralfs in Pritchard)

***Eunotia septentrionalis* Østrup 1897**, p. 274; pl. 1, fig. 10 [CAS ref. 000699]

Distribution (Fig. 433):

REGION: NORTE
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Eunotia septentrionalis* Oestrup)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia septentrionalis* Östrup); Gil et al. 1989-1990 (as *Eunotia septentrionalis*)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia septentrionalis* Östrup); Gil et al. 1989-1990 (as *Eunotia septentrionalis*)
Site: Redonda, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia septentrionalis* Östrup); Gil et al. 1989-1990 (as *Eunotia septentrionalis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Eunotia septentrionalis* Östrup); Gil et al. 1989-1990 (as *Eunotia septentrionalis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Eunotia septentrionalis* Östrup)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Eunotia septentrionalis* Östrup); Gil et al. 1989-1990 (as *Eunotia septentrionalis*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Eunotia septentrionalis*)

***Eunotia serpentina* Ehrenberg 1854**, p. 6, 12 [CAS ref. 000300]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia serpentina* Ehrenberg)

***Eunotia serra* Ehrenberg 1837d**, p. 45 [CAS ref. 001178]

Distribution (Fig. 434):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia serra* Ehrenberg)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia serra* Ehrenberg)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Eunotia serra* Ehrenberg)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Eunotia serra* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Eunotia serra* Ehrenberg)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Eunotia serra* Ehrenberg)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Eunotia serra* Ehrenberg)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Eunotia serra* Ehrenberg)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia serra* Ehrenberg)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia serra* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia serra* Ehrenberg)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Eunotia serra* Ehrenberg)

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia serra* var. *serra* Ehrenberg)

***Eunotia serra* var. *diadema* (Ehrenberg) R.M. Patrick 1958**, p. 10;
fig. 11 [CAS ref. 001808]

Basionym: *Eunotia diadema* Ehrenberg 1837d [CAS ref. 001178]

Nomenclatural synonym: *Eunotia robusta* var. *diadema* (Ehrenberg) Ralfs 1861
[CAS ref. 001063]

Distribution (Fig. 435):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Eunotia robusta* Ralfs var. *diadema* (Ehr.) Ralfs)

***Eunotia siolii* Hustedt 1952a**, p. 143; fig. 13-15 [CAS ref. 000523]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia siolii* Hustedt)

***Eunotia soleirolii* (Kützing) Rabenhorst 1864**, p. 74 [CAS ref. 000775]

Basionym: *Himantidium soleirolii* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Eunotia pectinalis* var. *soleirolii* (Kützing) Van Heurck 1896, p. 301 [CAS ref. 000897]

Distribution (Fig. 436):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Eunotia soleirolii* (Kützing) Rabenhorst)

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Himantidium soleirolii* Kg.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Eunotia soleirolii* (Kützing) Rabenhorst)
Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Gonçalo

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *soleirolii* Kuetz.)

Site: Guarda

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *soleirolii* Kuetz.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *soleirolii* Kuetz.)

Site: Meios

References: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *soleirolii* Kuetz.); Santos & Carvalho 2001 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *soleirolii* Kuetz.)

Site: Nueme

Reference: Carvalho 1913 (as *Eunotia pectinalis* (Dillw.?) Rabenh. var. *soleirolii* Kuetz.)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia soleirolii* (Kützing) Rabenhorst)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Eunotia soleirolii* (Kützing) Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Himantidium soleirolii* Ktz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia soleirolii* (Kützing) Rabenhorst)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia soleirolii* (Kützing) Rabenhorst)

***Eunotia subarcuatoides* Alles, Nörpel-Schempp & Lange-Bertalot
1991, v. 53 (1-2): p. 188; pl. 4, fig. 1-36 [CAS ref. 007325]**

Formatada: Portugal
(Portugal)

Distribution (Fig. 437):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Eunotia subarcuatooides* Alles, Norpel & Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Eunotia subarcuatooides* Alles, Nörpel & Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia subarcuatooides* Alles, Norpel & Lange-Bertalot)

***Eunotia submonodon* Hustedt emend Gil 1989**, v. 15 (1-4): p. 269, 271; pl. 2, fig. 1-7 [CAS ref. 008265]

Distribution (Fig. 438):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia submonodon* Hustedt)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia submonodon* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*); Almeida 1998 (as *Eunotia submonodon* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Eunotia submonodon* Hustedt)

- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Eunotia submonodon* Hustedt)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-90 (as *Eunotia submonodon*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia submonodon* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia submonodon* Hustedt)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia submonodon* Hustedt)
- Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Eunotia submonodon*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia submonodon* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Eunotia submonodon* Hustedt); Gil et al. 1989-1990 (as *Eunotia submonodon*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Eunotia submonodon*)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Eunotia submonodon* Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Eunotia submonodon*)

***Eunotia sudetica* O. Müller 1898**, p. 12; pl. 3, fig. 25, 26 [CAS ref. 001398]

Distribution (Fig. 439):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Eunotia sudetica* O. Muller); Nunes 2007 (as *Eunotia sudetica* O. Muller); Ferreira da Silva et al. 2009 (as *Eunotia sudetica* O. Muller)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Eunotia sudetica* (O. Müll.) Hust.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt); Gil et al. 1989-1990 (as *Eunotia sudetica*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: Bolfiar, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: Raivo, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt); Gil et al. 1989-1990 (as *Eunotia sudetica*)
 Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Eunotia sudetica* O. Muller)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, upstream of Braçal Mine, Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Eunotia sudetica* O. Muller)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)
 Site: Varzielas, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt); Gil et al. 1989-1990 (as *Eunotia sudetica*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
- References: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt); Gil et al. 1989-1990 (as *Eunotia sudetica*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Eunotia sudetica*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia sudetica* (O. Müll.) Hustedt)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia sudetica* (O. Müll.) Hust., fossil)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Eunotia sudetica*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia sudetica* (O. Müll.) Hust., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia sudetica* (O. Müll.) Hust., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Eunotia sudetica* (Müller) Hust.)

Site: Pico da Vara

References: Manguin 1942 (as *Eunotia sudetica* O. Müll.); Bourrelly &

Manguin 1946a (as *Eunotia sudetica* O. Müll.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Eunotia sudetica* O.F. Müller)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia sudetica* O.F. Müller)

Site: Not Specified

Reference: Bourrelly & Manguin 1946b (as *Eunotia sudetica*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Krammer & Lange-Bertalot 1991a (as *Eunotia sudetica* O.

Müller); INAG I.P. 2008 (as *Eunotia sudetica* O. Müller)

***Eunotia sudetica* var. *bidens* Hustedt in Schmidt 1913, pl. 294, fig. 22, 23 [CAS ref. 012496]**

Distribution (Fig. 440):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia sudetica* O. Müll. var. *bidens* Hust.); Bourrelly & Manguin 1946a (as *Eunotia sudetica* O. Müll. var. *bidens* Hust.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Eunotia sudetica* O. Müll. var. *bidens* Hust.); Bourrelly & Manguin 1946a (as *Eunotia sudetica* O. Müll. var. *bidens* Hust.)

***Eunotia tetraodon* Ehrenberg 1838**, p. 192; pl. 21, fig. 25 [CAS ref. 000288]

Nomenclatural synonym: *Eunotia robusta* var. *tetraodon* (Ehrenberg) Ralfs in Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 441):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia tetraodon* Ehr., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Eunotia tetraodon* Breb., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Eunotia tetraodon* Breb., fossil)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia tetraodon* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs)

Municipality: Lajes das Flores (Flores Island)

- Site: Lagoa Rasa
References: Manguin 1942 (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs); Bourrelly & Manguin 1946a (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs)
- Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs)
- Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs); Bourrelly & Manguin 1946a (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs)
- Site: Ribeira Grande
References: Manguin 1942 (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs); Bourrelly & Manguin 1946a (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs)
- Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia tetraodon* (Ehrenberg) Ralfs)
- Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs); Bourrelly & Manguin 1946a (as *Eunotia robusta* Ralfs var. *tetraodon* (Ehr.) Ralfs)
- Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Eunotia tetraodon* (Ehrenberg) Ralfs)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia tetraodon* (Ehrenberg) Ralfs)
- Site: Not Specified
Reference: Gonçalves 2008 (as *Eunotia serra* var. *tetraodon* (Ehrenberg) Nörpel)

***Eunotia torula* M.H. Hohn 1961**, p. 160; pl. 1, fig. 10 [CAS ref. 000485]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia torula* Hohn)

***Eunotia trinacria* var. *undulata* Hustedt 1930**, p. 176; fig. 222 [CAS ref. 000502]

Distribution (Fig. 442):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Eunotia trinacria* Krasske var. *undulata* Hust.); Bourrelly & Manguin 1946a (as *Eunotia trinacria* Krasske var. *undulata* Hust.)

***Eunotia triodon* Ehrenberg 1837d**, p. 45 [CAS ref. 001178]

Distribution (Fig. 443):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Eunotia triodon* Ehr.)

Subregion: Entre Douro e Vouga

Municipality: Santa Maria da Feira (District: Aveiro)

Site: Fornos

Reference: Zimmermann 1910 (as *Eunotia triodon* Ehr.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Eunotia triodon* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Eunotia triodon* Ehr.)

Municipality: Not Specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Eunotia triodon* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Eunotia triodon* Ehrenberg)

***Eunotia valida* Hustedt 1930**, p. 178; fig. 229 [CAS ref. 000502]

Synonym: *Eunotia glacialis* F. Meister 1912 [CAS ref. 000642], according to Krammer & Lange-Bertalot 1991a, p. 206

Distribution (Fig. 444):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Eunotia valida* Hust.)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Eunotia valida* Hust.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia valida*)

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia valida*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia valida*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Eunotia valida*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Eunotia valida* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Eunotia valida* Hust.); Bourrelly & Manguin 1946a (as *Eunotia valida* Hust.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Eunotia valida* Hust.); Bourrelly & Manguin 1946a (as *Eunotia valida* Hust.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Eunotia valida* Hust.); Bourrelly & Manguin 1946a (as *Eunotia valida* Hust.); Mölder 1947 (as *Eunotia valida* Hust.)

Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Eunotia valida* Hust.); Bourrelly & Manguin 1946a (as *Eunotia valida* Hust.)
Municipality: Not Specified
Site: Pico Island
Reference: Johansson 1977 (as *Eunotia valida* Hust.)
Site: Terceira Island
Reference: Johansson 1977 (as *Eunotia valida* Hust.)

***Eunotia veneris* (Kützing) De Toni 1892a**, p. 794 [CAS ref. 000950]

Basionym: *Himantidium veneris* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 445):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Eunotia veneris* (Kützing) De Toni)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Eunotia veneris* (Kützing) De Toni)

- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia veneris* (Kützing) De Toni)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
Reference: Nunes 2007 (as *Eunotia veneris* (Kützing) De Toni)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia veneris*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia veneris*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Eunotia veneris*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Eunotia veneris* (Kütz.) O. Müller)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- References: Calado 1990 (as *Eunotia veneris* (Kützing) O. Müller); Gil et al. 1991 (as *Eunotia veneris*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Eunotia veneris* (Kütz.) O. Müll., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Eunotia veneris* Ktz., fossil)

Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Eunotia veneris* Kütz., fossil)
Site: Not Specified
Reference: Silva 1946b (as *Eunotia veneris* (Kütz.) O. Müll., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Site: Santa Bárbara
Reference: Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Municipality: Calheta (São Jorge Island)
Site: Pico do Calheta
Reference: Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Site: Ribeira de São João
Reference: Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Eunotia veneris* (Kütz.) O. Müll.);
Bourrelly & Manguin 1946a (as *Eunotia veneris* (Kütz.) O. Müll.)
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Eunotia veneris* (Kütz.) O. Müll.);
Bourrelly & Manguin 1946a (as *Eunotia veneris* (Kütz.) O. Müll.);
Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Negro
Reference: Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Eunotia veneris* (Kütz.) O. Müll.);
Bourrelly & Manguin 1946a (as *Eunotia veneris* (Kütz.) O. Müll.);
Mölder 1947 (as *Eunotia veneris* (Kütz.) O. Müller)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Eunotia veneris* (Kützing) De Toni)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Eunotia veneris* (Kützing) De Toni)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Eunotia veneris* (Kützing) De Toni)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Eunotia veneris* (Kützing) De Toni)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Eunotia veneris* (Kützing) De Toni)

***Eunotia ventricosa* Ehrenberg 1854 [CAS ref. -]**

Distribution (Fig. 446):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1909b (as *Eunotia ventricosa* Ehr.)

***Eunotia* sp.**

Distribution (Fig. 447):

REGION: NORTE
Subregion: Ave
Municipality: Fafe (District: Braga)
Site: Travassós, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Eunotia* sp.)
Subregion: Douro
Municipality: Armamar (District: Viseu)
Site: Queimadela, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Eunotia* sp.)
Subregion: Minho-Lima
Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
Site: Barragem de Covas, Coura River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Eunotia* sp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Ave Reservoirs, Ave River (Ave Basin)
References: Branco et al. 1991a (as *Eunotia* sp.); Branco et al. 1991b (as *Eunotia* sp.)

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Eunotia* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Eunotia* spp.)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Eunotia* sp.)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)

Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Eunotia* sp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Eunotia* spp.)

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Eunotia* sp.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Eunotia* sp.)

***Fallacia* Stickle & D.G. Mann in Round, Crawford & Mann 1990, p. 667 [CAS ref. 003245]**

***Fallacia enigmatica* (H. Germain) Lange-Bertalot & Werum in Werum & Lange-Bertalot 2004, p. 159 [CAS ref. 012889]**

Basionym: *Navicula enigmatica* H. Germain 1980 [CAS ref. 008253]

Distribution (Fig. 448):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula enigmatica* Germain); Gil et al. 1989-1990 (as *Navicula enigmatica*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula enigmatica* Germain)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula enigmatica* Germain); Gil et al. 1989-1990 (as *Navicula enigmatica*)

***Fallacia helensis* (Schulz) D.G. Mann in Round, Crawford & Mann 1990, p. 668 [CAS ref. 003245]**

Basionym: *Navicula helensis* Schulz 1926 [CAS ref. 000812]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula helensis* Schulz)

***Fallacia insociabilis* (Krasske) D.G. Mann in Round, Crawford & Mann 1990, p. 668 [CAS ref. 003245]**

Basionym: *Navicula insociabilis* Krasske 1932 [CAS ref. 000583]

Distribution (Fig. 449):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fallacia insociabilis* (Krasske) D. G. Mann)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula insociabilis* Krasske)

***Fallacia monoculata* (Hustedt) D.G. Mann in Round, Crawford & Mann 1990, p. 668 [CAS ref. 003245]**

Basionym: *Navicula monoculata* Hustedt 1945 [CAS ref. 000518]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Navicula monoculata* Hustedt)

***Fallacia pygmaea* (Kützing) Stickle & D.G. Mann in Round, Crawford & Mann 1990, p. 668 [CAS ref. 003245]**

Basionym: *Navicula pygmaea* Kützing [CAS ref. 000596]

Distribution (Fig. 450):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)
Reference: Zimmermann 1909b (as *Navicula pygmaea* Kuetz.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula pygmaea* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pygmaea* Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pygmaea*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pygmaea*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pygmaea*)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pygmaea* Kützing)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pygmaea*)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pygmaea* Kützing)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pygmaea* Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pygmaea* Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pygmaea* Kützing)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pygmaea* Kützing)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pygmaea*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pygmaea*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pygmaea* Kützing)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pygmaea* Kützing)

Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula pygmaea*); Almeida 1998 (as *Navicula pygmaea* Kützing)

Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pygmaea*)

Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pygmaea* Kützing)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Navicula pygmaea* Kützing)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: Calado 1990 (as *Navicula pygmaea* Kützing)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fallacia pygmaea* (Kützing) Stickle et D.G. Mann)

Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fallacia pygmaea* (Kützing) Stickle et D.G. Mann)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula pygmaea* Kützing)

***Fallacia subhamulata* (Grunow in Van Heurck) Bukhtiyarova 1995, v. 5(4): p. 422 [CAS ref. 008000]**

Basionym: *Navicula subhamulata* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 451):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula subhamulata* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula subhamulata* Grunow)

***Fallacia tenera* (Hustedt) D.G. Mann in Round, Crawford & Mann 1990, p. 669 [CAS ref. 003245]**

Basionym: *Navicula tenera* Hustedt in Schmidt et al. 1936 [CAS ref. 012519]

Distribution (Fig. 452):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fallacia tenera* (Hustedt) D.G. Mann)

***Fallacia vitrea* (Østrup) D.G. Mann in Round, Crawford & Mann 1990, p. 669-670 [CAS ref. 003245]**

Basionym: *Frustulia vitrea* Østrup 1901 [CAS ref. 000701]

Nomenclatural synonym: *Navicula vitrea* (Østrup) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 453):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.); Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.); Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Krieger 1931 (as *Frustulia vitrea* Oestrup)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.)

Site: Pico da Vara

References: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.); Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)

Site: Pico Verde

References: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.); Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)
Site: Ribeira Quente
Reference: Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.); Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)
Site: Ribeira Grande
References: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.); Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)
Municipality: Not Specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Navicula vitrea* (Ostr.) Hust.); Bourrelly & Manguin 1946a (as *Navicula vitrea* (Ostr.) Hust.)

***Fistulifera* Lange-Bertalot 1997, p. 73**
[CAS ref. 007047]

***Fistulifera pelliculosa* (Brébisson) Lange-Bertalot 1997, p. 73; fig. 28-31 [CAS ref. 007047]**

Basionym: *Synedra minutissima* var. *pelliculosa* Brébisson in Kützing 1849 [CAS ref. 000596]

Nomenclatural synonym: *Navicula pelliculosa* (Kützing) Hilse 1863 [CAS ref. 009550]

Distribution (Fig. 454):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pelliculosa*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pelliculosa*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pelliculosa*)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pelliculosa*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pelliculosa*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pelliculosa*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Navicula pelliculosa* Hilse)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Fistulifera pelliculosa* (Brébisson) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Fistulifera pelliculosa* (Brébisson) Lange-Bertalot)

***Fistulifera saprophila* (Lange-Bertalot & Bonik) Lange-Bertalot 1997, p. 73; fig. 32 [CAS ref. 007047]**

Basionym: *Navicula saprophila* Lange-Bertalot & Bonik 1976 [CAS ref. 008469]

Distribution (Fig. 455):

REGION: NORTE

Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik); Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Fistulifera saprophila* (Lange-Bertalot & Bonik) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fistulifera saprophila* (Lange-Bertalot & Bonik) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
- Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula saprophila* Lange-Bertalot & Bonik)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula saprophila*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fistulifera saprophila* (Lange-Bertalot et Bonik) Lange-Bertalot)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fistulifera saprophila* (Lange-Bertalot et Bonik) Lange-Bertalot)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fistulifera saprophila* (Lange-Bertalot et Bonik) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
References: Gonçalves 2008 (as *Fistulifera saprophila* (Lange-Bertalot et Bonik) Lange-Bertalot); Gonçalves et al. 2010 (as *Fistulifera saprophila* (Lange-Bertalot & Bonik) Lange-Bertalot, fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula saprophila* Lange-Bertalot & Bonik)

***Fragilaria Lyngbye 1819*, p. 182**
[CAS ref. 000620]

***Fragilaria arcus* (Ehrenberg) Cleve 1898**, p. 9 [CAS ref. 000235]

Basionym: *Navicula arcus* Ehrenberg 1836 [CAS ref. -]

Nomenclatural synonyms: *Ceratoneis arcus* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Hannaea arcus (Ehrenberg) R.M. Patrick in Patrick & Freese 1961 [CAS ref. 000725]

Synonyms: *Ceratoneis arcus* var. *amphioxys* (Rabenhorst) Brun 1880 [CAS ref. 000174], according to Krammer & Lange-Bertalot 1991a, p. 134

Ceratoneis arcus var. *linearis* Holmboe 1899 [CAS ref. 011659], according to Krammer & Lange-Bertalot 1991a, p. 134

Distribution (Fig. 456):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Ceratoneis arcus*); Oliveira et al. 1985 (as *Ceratoneis arcus* Kützing)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Ceratoneis arcus*); Oliveira 1985 (as *Ceratoneis arcus* Kützing)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

References: Oliveira 1982a (as *Ceratoneis arcus*); Oliveira 1985 (as *Ceratoneis arcus* Kützing)

Subregion: Cávado

Municipality: Barcelos (District: Braga)
 Site: Manhente, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Ceratoneis arcus*)

Municipality: Esposende (District: Braga)
 Site: Marachão, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Ceratoneis arcus*)

Municipality: Not Specified
 Site: Entrepontes, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Ceratoneis arcus*)
 Site: Homem River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Ceratoneis arcus*)

Subregion: Entre Douro e Vouga
 Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 References: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot); Nunes 2007 (as *Hannaea arcus* (Ehrenberg) Patrick)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Hannaea arcus* (Ehrenberg) Patrick); Nunes 2007 (as *Hannaea arcus* (Ehrenberg) Patrick)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)

Subregion: Minho-Lima
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Fragilaria arcus*)

Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Ceratoneis arcus*)

Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Ceratoneis arcus*)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
 Site: Barragem de Covas, Coura River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Ceratoneis arcus*)

Municipality: Not Specified
 Site: Lima River (Lima Basin)
 Reference: Cerqueira da Silva 1990 (as *Ceratoneis arcus*)
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Ceratoneis arcus*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Ave Reservoirs, Ave River (Ave Basin)
 References: Branco et al. 1991a (as *Ceratoneis arcus*); Branco et al. 1991b (as *Ceratoneis arcus*)

REGION: CENTRO

Subregion: Baixo Mondego

- Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Marsh near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Ceratoneis arcus* (Ehrenberg) Cleve)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)
- Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*); Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)
- Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)
- Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)
- Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Hannaea arcus* (Ehrenberg) Patrick); Ferreira et al. 2002 (as *Hannaea arcus* (Ehrenberg) Patrick)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Site: Valmaior, mouth of Filvida River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria arcus* (Nitzsch) Lange-Bertalot)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Ceratoneis arcus*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Ceratoneis arcus*)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaëa arcus* (Ehrenberg) Patrick)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaea arcus* (Ehrenberg) Patrick)

Site: Silva Escura (upstream of Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Hannaea arcus* (Ehrenberg) Patrick)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Ceratoneis arcus* Kützing)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Gonçalo
Reference: Carvalho 1913 (as *Ceratoneis arcus* (Ehrenberg) Cleve)

Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Ceratoneis arcus* (Ehr.) Kützing); Santos & Carvalho 2001 (as *Ceratoneis arcus* (Ehr.) Kuetz.)

Site: Porto da Carne
Reference: Carvalho 1913 (as *Ceratoneis arcus* (Ehr.) Kützing)

Site: Vela
Reference: Carvalho 1913

Site: Vila Patrício
Reference: Carvalho 1913 (as *Ceratoneis arcus*)

Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Ceratoneis arcus* (Ehr.) Kuetz.)

Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Ceratoneis arcus*)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)

Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing)

Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Ceratoneis arcus* (Ehr.) Kützing); Gil et al. 1989-1990 (as *Ceratoneis arcus*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Ceratoneis arcus*); Brito & Andrade 1992 (as *Ceratoneis arcus*)

Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Ceratoneis arcus*)

Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Ceratoneis arcus*)

Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Ceratoneis arcus* (Ehrenberg) Cleve)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Ceratoneis arcus*); Cerqueira da Silva et al. 1993 (as *Ceratoneis arcus*); Cerqueira da Silva 1994 (as *Ceratoneis arcus*)
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Ceratoneis arcus*); Almeida & Gil 2001 (as *Fragilaria arcus* (Ehrenberg) Cleve)

REGION: ALENTEJO

Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Ceratoneis arcus*)

Subregion: Lezíria do Tejo
 Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 Reference: Brito & Andrade 1992 (as *Ceratoneis arcus*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Rocha da Galé, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Ceratoneis arcus*)

REGION: Not Specified

Subregion: Not Specified
 Municipality: Not Specified
 Site: Mountain Rivers in the North
 Reference: Morais et al. 2009 (as *Hannaea arcus* (Ehrenberg) Patrick)
 Site: Rivers in the North
 Reference: Morais et al. 2009 (as *Hannaea arcus* (Ehrenberg) Patrick)

Site: Not Specified
Reference: INAG I.P. 2008 (as *Hannaea arcus* (Ehr.) Patrick)

***Fragilaria bidens* Heiberg 1863**, p. 60; pl. 5, fig. 14 [CAS ref. 000471]

Distribution (Fig. 457):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria bidens* Heiberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilaria bidens* Heiberg)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria bidens* Heiberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria bidens* Heiberg)

***Fragilaria capucina* Desmazières 1825**, fasc. 10, No. 453 [CAS ref. 000268]

Distribution (Fig. 458):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *capucina*)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Fragilaria capucina* Desmazières)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Fragilaria capucina* Desmazières); Almeida 2001 (as *Fragilaria capucina* Desmazières); Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)

Subregion: Grande Porto
 Municipality: Porto (District: Porto)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Fragilaria capucina* Desmaz.)

Subregion: Minho-Lima
 Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Fragilaria capucina*)
 Municipality: Not Specified
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Fragilaria capucina*)

REGION: CENTRO

Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Poço do Almegue
 Reference: Nauwerck 1959 (as *Fragilaria capucina* Desmazières)

Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: de Figueiredo et al. 2006 (as *Fragilaria capucina* Desmazières)

Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Nauwerck 1962 (as *Fragilaria capucina* Desmazières)

Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*); Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)
 Site: São João de Loure, Vouga River (Vouga Basin)
 Reference: Nauwerck 1959 (as *Fragilaria capucina* Desmazières)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)

- References: Nunes et al. 2002 (as *Fragilaria capucina* Desmazières var. *capucina*); Nunes 2007 (as *Fragilaria capucina* Desmazières); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *capucina*)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria capucina*); Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Fragilaria capucina* Desmazières)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
 Site: Viadouros, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria capucina*); Almeida 1998 (as *Fragilaria capucina* Desmazières)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria capucina*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières)
Municipality: Vale de Cambra (District: Aveiro)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Fragilaria capucina* Desmazières)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfazazes
Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières)
Site: Diz River
Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières)
Site: Gonçalo
Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières)
Site: Meios
References: Carvalho 1913 (as *Fragilaria capucina* Desmazières); Santos & Carvalho 2001 (as *Fragilaria capucina* Desmaz.)
Site: Mondego River (Mondego Basin)
Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières); Santos & Carvalho 2001 (as *Fragilaria capucina* Desmaz.)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Sobral do Campo
Reference: Zimmermann 1909b (as *Fragilaria capucina* Desmaz.)

- Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Fragilaria capucina*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Fragilaria capucina*)
- Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Outeiro do Bispo
 Reference: Zimmermann 1909b (as *Fragilaria capucina* Desmaz.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Varzuelas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria capucina* Desmazières)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Fragilaria capucina*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria capucina* Desmazières)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria capucina* Desmazières); Gil et al. 1989-1990 (as *Fragilaria capucina*)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Fragilaria capucina*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Fragilaria capucina*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Fragilaria capucina*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Fragilaria capucina*)

Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Fragilaria capucina* Desmazières)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Fragilaria capucina* Desmazières)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Fragilaria capucina* Desmazières)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Fragilaria capucina* Desmazières)

Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Fragilaria capucina*)

Subregion: Pinhal Interior Norte
 Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria capucina* Desmazières)
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria capucina* Desmazières)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Fragilaria capucina*)

Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Fragilaria capucina*)

Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Fragilaria capucina* Desmazières)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Fragilaria capucina* Desmazières)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Fragilaria capucina* Desmazières); Gil et al. 1991 (as *Fragilaria capucina*)
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Fragilaria capucina*)

REGION: CENTRO
 Subregion: Baixo Vouga
 Municipality: Not Specified
 Site: Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capucina*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Fragilaria capucina*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1987 (as *Fragilaria capucina* Desm., fossil)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Andrade & Brito 1995 (as *Fragilaria capucina*); Oliveira & Monteiro 1995 (as *Fragilaria capucina*); Oliveira 1996 (as *Fragilaria capucina*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Fragilaria capucina* (Ehrenberg) Grunow)

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1984b (as *Fragilaria capucina*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Fragilaria capucina* Desm., fossil)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Fragilaria capucina*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Fragilaria capucina*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Fragilaria capucina* Desm., fossil); Fernandes et al. 1987 (as *Fragilaria capucina*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Fragilaria capucina*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Fragilaria capucina* Desm., fossil); Fernandes et al. 1987 (as *Fragilaria capucina*)

Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Fragilaria capucina*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria capucina* Desmazières)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria capucina*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria capucina*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria capucina*); Brito & Andrade 1992 (as *Fragilaria capucina*)
Subregion: Médio Tejo
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria capucina*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Fragilaria capucina*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Fragilaria capucina*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Fragilaria capucina* Desmazières)
Municipality: Lajes das Flores (Flores Island)
Site: Fazenda
Reference: Mölder 1947 (as *Fragilaria capucina* Desmazières)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Holmboe 1901 (as *Fragilaria capucina* Desmazières)
Municipality: Povoação
Site: Furnas
Reference: Mölder 1947 (as *Fragilaria capucina* Desmazières)

Site: Lagoa das Furnas
References: Chaves 1908 (as *Fragilaria capucina* Desm.); Manguin 1942 (as *Fragilaria capucina* Desmazières); Bourrelly & Manguin 1946a (as *Fragilaria capucina* Desmazières); Mölder 1947 (as *Fragilaria capucina* Desmazières); Gonçalves 1997 (as *Fragilaria capucina*)

Site: Ribeira Quente
References: Manguin 1942 (as *Fragilaria capucina* Desmazières); Bourrelly & Manguin 1946a (as *Fragilaria capucina* Desmazières)

Site: Tambores, Furnas
Reference: Chaves 1908 (as *Fragilaria capucina* Desm., fossil)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande
References: Manguin 1942 (as *Fragilaria capucina* Desmazières); Bourrelly & Manguin 1946a (as *Fragilaria capucina* Desmazières)

Municipality: Not Specified

Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Fragilaria capucina* Desmazières)

Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Fragilaria capucina* Desmazières)

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Fragilaria capucina* Desmazières)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Fragilaria capucina* Desmazières)

Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Fragilaria capucina* Desmazières)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Fragilaria capucina* Desmazières)

Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Fragilaria capucina* Desmazières)

Site: Not Specified
Reference: Gonçalves 2008 (as *Fragilaria capucina* Desmazières)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *capucina*)

Site: Rivers in the North
Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *capucina*)

Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *capucina*)

***Fragilaria capucina* var. *acuta* (Ehrenberg) Rabenhorst 1864**, p. 118 [CAS ref. 000775]

Basionym: *Fragilaria acuta* Ehrenberg 1840a [CAS ref. 000293]

Distribution (Fig. 459):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cubo

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *acuta* Grun.)

Site: Gonçalves

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *acuta* Grun.)

***Fragilaria capucina* subsp. *amphicephala* (Kützing) Lange-Bertalot 1993**, p. 44; Bacill. 2/3, fig. 109: 19-20, fig. 113: 1-2 [CAS ref. 008467]

Basionym: *Synedra amphicephala* Kützing 1844 c [CAS ref. 000595]

Distribution (Fig. 460):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Synedra amphicephala* Kütz.)

***Fragilaria capucina* var. *austriaca* (Grunow) Lange-Bertalot 1980a**, p. 748 [CAS ref. 008465]

Basionym: *Synedra amphicephala* var. *austriaca* (Grunow in Van Heurck) Hustedt 1930 [CAS ref. 000502]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *austriaca* (Grunow) Lange-Bertalot)

***Fragilaria capucina* var. *capitellata* (Grunow) Lange-Bertalot 1991**, p. 124; pl. 109, figs 25-28 [CAS ref. 006521]

Basionym: *Synedra capitellata* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonym: *Synedra vaucheriae* var. *capitellata* (Grunow in Van Heurck) Hustedt 1932 [CAS ref. 000506]

Distribution (Fig. 461):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capitellata* (Grunow) Lange-Bertalot)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *capitellata* (Grunow) Lange-Bertalot)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Synedra vaucheriae* Kg. var. *capitellata* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria capitellata* (Grunow) Petersen)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Fragilaria capitellata* (Grunow) Petersen)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilaria capitellata* (Grunow) Petersen)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria capucina* var. *capitellata* (Grunow) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *capitellata* (Grunow) Lange-Bertalot)

***Fragilaria capucina* var. *distans* (Grunow) Lange-Bertalot 1991**, p. 124; pl. 109, fig. 16 [CAS ref. 006521]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria capucina* var. *distans* (Grunow) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *distans* (Grunow) Lange-Bertalot)

***Fragilaria capucina* var. *fragilarioides* (Grunow) T.A.V. Ludwig & T.L. Flores 1997**, v. 24(1): p. 58-59; fig. 2-9 [CAS ref. 008012]

Basionym: *Synedra rumpens* var. *fragilarioides* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 462):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Synedra rumpens* Kütz. var. *fragilarioides* Grun.); Bourrelly & Manguin 1946a (as *Synedra rumpens* Kütz. var. *fragilarioides* Grun.)

***Fragilaria capucina* var. *lanceolata* Grunow in Van Heurck 1881**, pl. 45, fig. 5 [CAS ref. 001035]

Distribution (Fig. 463):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Caldeirão

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.); Santos & Carvalho 2001 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Meios

References: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.); Santos & Carvalho 2001 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.); Santos & Carvalho 2001 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Nueme

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Site: Vela

Reference: Carvalho 1913 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.); Bourrelly & Manguin 1946a (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.); Bourrelly & Manguin 1946a (as *Fragilaria capucina* Desmazières var. *lanceolata* Grun.)

***Fragilaria capucina* fo. *minuscula* ??? [CAS ref. -]**

Distribution (Fig. 464):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Fragilaria capucina* f. *minuscula*); Gil et al. 1989-1990 (as *Fragilaria capucina* fo. *minuscula*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*); Gil et al. 1989-1990 (as *Fragilaria capucina* fo. *minuscula*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)

Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Fragilaria capucina* fo. *minuscula*)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria capucina* f. *minuscula*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Fragilaria capucina* f. *minuscula*)

***Fragilaria crotonensis* Kitton 1869**, p. 110; text fig. 81 [CAS ref. 001728]

Distribution (Fig. 465):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Macedo de Cavaleiros (District: Bragança)

Site: Azibo Reservoir, Azibo River (Douro Basin)

Reference: Vasconcelos 1991 (as *Fragilaria crotonensis*)

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Fragilaria crotonensis*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Fragilaria crotonensis*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Fragilaria crotonensis*)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes et al. 2003 (as *Fragilaria crotonensis* Kitton)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria crotonensis* Kitton)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Fragilaria crotonensis*)

Municipality: Melgaço (District: Viana do Castelo)

Site: Melgaço, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Fragilaria crotonensis*)

Site: São Gregório, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Fragilaria crotonensis*)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Fragilaria crotonensis*)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Fragilaria crotonensis*)

Municipality: Not Specified

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Fragilaria crotonensis*)

Site: Lima River (Lima Basin)

Reference: Cerqueira da Silva 1990 (as *Fragilaria crotonensis*)

Site: Minho River (Minho Basin)

Reference: Cerqueira da Silva & Cunha 1992 (as *Fragilaria crotonensis*)

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Fragilaria crotonensis*)

Subregion: Tâmega

Municipality: Marco de Canavezes (District: Porto)

Site: Torrão Reservoir, Tâmega River (Douro Basin)

Reference: Branco & Guimarães 1991 (as *Fragilaria crotonensis*)

Subregion: Not Specified

Municipality: Not Specified

Site: Ave Reservoirs, Ave River (Ave Basin)

References: Branco et al., 1991a (as *Fragilaria crotonensis*); Branco et al. 1991b (as *Fragilaria crotonensis*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Fragilaria crotonensis* Kitton)

Site: Coimbra Reservoir, Mondego River (Mondego Basin)

References: Craveiro & Santos 1997 (as *Fragilaria crotonensis* Kitton);

Craveiro & Santos 1998 (as *Fragilaria crotonensis*)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria crotonensis* Kitton)

Municipality: Penacova (District: Coimbra)

Site: Agueira Reservoir, Mondego River (Mondego Basin)
 Reference: Oliveira & Monteiro 1992 (as *Fragilaria crotonensis*)

Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Fragilaria crotonensis* Kitton)

Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria crotonensis* Kitton); Gil et al. 1989-1990 (as *Fragilaria crotonensis*); Almeida 1998 (as *Fragilaria crotonensis* Kitton)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria crotonensis* Kitton); Gil et al. 1989-1990 (as *Fragilaria crotonensis*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Fragilaria crotonensis* Kitton); Ferreira da Silva et al. 2009 (as *Fragilaria cf. crotonensis* Kitton)

Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
 References: Nunes 2007 (as *Fragilaria crotonensis* Kitton); Nunes 2007 (as *Fragilaria crotonensis* Kitton, teratological form); Ferreira da Silva et al. 2009 (as *Fragilaria cf. crotonensis* Kitton)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria crotonensis* Kitton)
 Site: Frossos, Carreira Creek (Mondego Basin)

- Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 References: Nunes et al. 2003 (as *Fragilaria crotonensis* Kitton); Nunes 2007 (as *Fragilaria crotonensis* Kitton)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
- Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria crotonensis* Kitton); Gil et al. 1989-1990 (as *Fragilaria crotonensis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria crotonensis* Kitton); Gil et al. 1989-1990 (as *Fragilaria crotonensis*)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria crotonensis* Kitton)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria crotonensis* Kitton)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria crotonensis* Kitton)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria crotonensis* Kitton)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Fragilaria crotonensis* Kitton)
- Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Fragilaria crotonensis*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

- Reference: Fernandes et al. 1987 (as *Fragilaria crotonensis*)
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Fragilaria crotonensis*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria crotonensis* Kitton); Gil et al. 1989-1990 (as *Fragilaria crotonensis*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria crotonensis* Kitton); Gil et al. 1989-1990 (as *Fragilaria crotonensis*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Fragilaria crotonensis* Kitton)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Fragilaria crotonensis*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria crotonensis* Kitton)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria crotonensis* Kitton); Gil et al. 1989-1990 (as *Fragilaria crotonensis*)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Fragilaria crotonensis*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Fragilaria crotonensis*)
Site: Pego, Tagus River (Tagus Basin)
Reference: Cerqueira da Silva 1989 (as *Fragilaria crotonensis*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria crotonensis*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Cabeçadas et al. 1980 (as *Fragilaria crotonensis* Kitton); Ferreira 1986 (as *Fragilaria crotonensis*); Brito & Andrade 1992 (as *Fragilaria crotonensis*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria crotonensis*)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Fragilaria crotonensis*)
 Subregion: Pinhal Interior Norte
 Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria crotonensis* Kitton)
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria crotonensis* Kitton)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Fragilaria crotonensis*)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Fragilaria crotonensis*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Fragilaria crotonensis*)
 Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Fragilaria crotonensis*)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Fragilaria crotonensis* Kitton)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Fragilaria crotonensis*);
 Cerqueira da Silva et al. 1993 (as *Fragilaria crotonensis*)
 Site: Not Specified
 References Calado 1990 (as *Fragilaria crotonensis* Kitton); 1 et al. 1991
 (as *Fragilaria crotonensis*); Almeida & Gil 2001 (as *Fragilaria
 crotonensis* Kitton)

REGION: LISBOA

Subregion: Grande Lisboa
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 References: Rodrigues & Moita 1979a (as *Fragilaria crotonensis*);
 Rodrigues & Moita 1979b (as *Fragilaria crotonensis*); Fernandes et al.
 1987 (as *Fragilaria crotonensis*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Upper Tagus Estuary (Tagus Basin)
 Reference: Brogueira et al. 2007 (as *Fragilaria crotonensis*)

REGION: ALENTEJO

- Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984b (as *Fragilaria crotonensis*); Oliveira 1987 (as *Fragilaria crotonensis* (Edw.) Kitt.)
- Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Ferreira 1986 (as *Fragilaria crotonensis*)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Fragilaria crotonensis* (Edw.) Kitton)
- Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Fragilaria crotonensis* (Edw.) Kitt.)
- Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Fragilaria crotonensis*)
- Municipality: Castelo de Vide (District: Portalegre)
Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Fragilaria crotonensis*)
- Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Fragilaria crotonensis*)
- Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Fragilaria crotonensis* (Edw.) Kitt.);
Fernandes et al. 1987 (as *Fragilaria crotonensis*)
- Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Fragilaria crotonensis*)
- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria crotonensis*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Fragilaria crotonensis* (Edw.) Kitt.);
Fernandes et al. 1987 (as *Fragilaria crotonensis*)
Site: Poio Reservoir, Nisa Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Fragilaria crotonensis* Kitton)
- Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Fragilaria crotonensis*)
- Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Fragilaria crotonensis*)

Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Fragilaria crotonensis*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Fragilaria crotonensis*); Oliveira et al. 1989 (as *Fragilaria crotonensis*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria crotonensis*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria crotonensis*); Brito & Andrade 1992 (as *Fragilaria crotonensis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Fragilaria crotonensis*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Fragilaria crotonensis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)
Site: Pico do Calheta
Reference: Mölder 1947 (as *Fragilaria crotonensis* Kitton)
Municipality: Corvo (Corvo Island)
Site: Caldeira
Reference: Mölder 1947 (as *Fragilaria crotonensis* Kitton)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Fragilaria crotonensis* Kitton)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Krieger 1931 (as *Fragilaria crotonensis* Kitton); Manguin 1942 (as *Fragilaria crotonensis* Kitton); Bourrelly & Manguin 1946a (as *Fragilaria crotonensis* Kitton); Gonçalves 1997 (as *Fragilaria crotonensis*); Gonçalves & Rodrigues 1999 (as *Fragilaria crotonensis*)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Negro
Reference: Mölder 1947 (as *Fragilaria crotonensis* Kitton)
Municipality: Not Specified

Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Fragilaria crotonensis* Kitton)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Fragilaria crotonensis* Kitton)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Fragilaria crotonensis* Kitton)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Fragilaria crotonensis* Kitton)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Fragilaria crotonensis* Kitton)
Site: Not Specified
Reference: Gonçalves 2008 (as *Fragilaria crotonensis* Kitton)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Fragilaria crotonensis*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria crotonensis* Kitton)

***Fragilaria danica* (Kützing) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996, v. 2: p. 54; pl. 109, fig. 1-1' [CAS ref. 007048]**

Basionym: *Synedra danica* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Synedra ulna* var. *danica* (Kützing) Grunow in Van Heurck 1885 [CAS ref. 001040]
Fragilaria ulna var. *danica* (Kützing) Kalinsky 1982 [CAS ref. 004588]

Distribution (Fig. 466):

REGION: NORTE
Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Not Specified
Reference: Colmeiro 1889 (as *Synedra danica* Kg.)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Bom-Sucesso
Reference: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.)
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira

- Reference: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
- Site: Águeda, Águeda River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
- Site: São João de Azenha, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)
- Site: Vila Verde, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *danica* (Kützing) Lange-Bertalot)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *danica* (Kuetz.))

Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Barragem Marechal Carmona, Ponsul River (Tagus Basin)
Reference: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.)

Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.);
Frade 1963 (as *Synedra ulna* var. *danica* (Kg.) Grun)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Synedra ulna* Ehr. var. *danica* (Kützing) Grunow)

REGION: LISBOA

Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Lagoa de Albufeira
Reference: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir (ancient Salazar Reservoir), Alcáçovas Stream (Sado Basin)
Reference: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.)
Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)
Reference: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.)

Subregion: Alto Alentejo
Municipality: Nisa (District: Portalegre)
Site: Poio Reservoir, Nisa Stream (Tagus Basin)
Reference: Nauwerck 1962 (*Synedra ulna* v. *danica* (Kg.) Grun.)

Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Synedra ulna* v. *danica* (Kg.) Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro

References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr. var. *danica* (Kütz.) Grun.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr. var. *danica* (Kütz.) Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Ulnaria danica* (Kützing) Compère & Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Ulnaria danica* (Kützing) Compère & Bukhtiyarova)

Site: Not Specified

Reference: Gonçalves 2008 (as *Synedra ulna* var. *danica* (Kützing) Grunow)

***Fragilaria delicatissima* (W. Smith) Lange-Bertalot 1980a**, p. 746
[CAS ref. 008465]

Basionym: *Synedra delicatissima* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 467):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria delicatissima* (W. Smith) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilaria delicatissima* (W. Smith) Lange-Bertalot)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Fragilaria delicatissima* (W. Smith) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Synedra delicatissima* Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria delicatissima* (W. Smith) Lange-Bertalot)

***Fragilaria dilatata* (Brébisson) Lange-Bertalot 1993**, p. 45; Bacill.
2/3, fig. 123: 1-3 [CAS ref. 008467]

Basionym: *Frustulia dilatata* Brébisson 1838 [CAS ref. 000161]

Synonym: *Ulnaria capitata* (Ehrenberg) Compère 2001 [CAS ref. 009463], according to Krammer & Lange-Bertalot 1991a, p. 147

Distribution (Fig. 468):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Fragilaria dilatata* (Brébisson) Lange-Bertalot)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria dilatata* (Brébisson) Lange-Bertalot)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria dilatata* (Brébisson) Lange-Bertalot)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria dilatata* (Brébisson) Lange-Bertalot)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria dilatata* (Brébisson) Lange-Bertalot)

***Fragilaria exigua* Grunow in Cleve & Möller 1878, No. 144 [CAS ref. 001976]**

Distribution (Fig. 469):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca

Reference: Gonçalves 1996 (as *Fragilaria exigua* Grunow)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria exigua* Grunow)

***Fragilaria famelica* (Kützing) Lange-Bertalot 1980a**, p. 749 [CAS ref. 008465]

Basionym: *Synedra famelica* Kützing 1844 [CAS ref. 000595]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria famelica* (Kützing) Lange-Bertalot var. *famelica*)

***Fragilaria fragilarioides* (Grunow in Van Heurck) Cholnoky 1963**, p. 169; pl. 25, fig. 29-30 [CAS ref. 000213]

Basionym: *Synedra rumpens* var. *fragilarioides* Grunow in Van Heurck [CAS ref. 001035]

Distribution (Fig. 470):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria fragilarioides* (Grunow) Cholnoky)

***Fragilaria gracilis* Østrup 1910**, p. 190; pl. 5, fig. 117 [CAS ref. 000706]

Nomenclatural synonym: *Fragilaria capucina* var. *gracilis* (Østrup) Hustedt 1950 [CAS ref. 000522]

Distribution (Fig. 471):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria gracilis* Oestrup)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

- Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Almeida & Gil 2001 (as *Fragilaria capucina* Desmazières var. *gracilis* (Östrup) Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria gracilis* Østrup)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria gracilis* Østrup)
 Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria gracilis* Østrup)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria gracilis* Østrup)

Site: Not Specified
Reference: Gonçalves 2008 (as *Fragilaria gracilis* Østrup)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *gracilis* (Oestrup) Hustedt)

***Fragilaria henryi* Lange-Bertalot apud Lange-Bertalot & Genkal 1999, p. 50 [CAS ref. 009014]**

Distribution (Fig. 472):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Fragilaria henryi* Lange-Bertalot)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Fragilaria henryi* Lange-Bertalot)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Fragilaria henryi* Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Fragilaria henryi* Lange-Bertalot)

***Fragilaria incisa* (C.S. Boyer) Lange-Bertalot 1980, p. 748 [CAS ref. 008465]**

Basionym: *Synedra incisa* C.S. Boyer 1920 [CAS ref. 000153]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
References: Gonçalves 2008 (as *Fragilaria incisa* (Boyer) Lange-Bertalot); Gonçalves et al. 2010 (as *Fragilaria incisa* (Boyer) Lange-Bertalot, fossil)

***Fragilaria inflata* (Heiden) Hustedt 1931, p. 155; fig. 669 [CAS ref. 000505]**

Basionym: *Synedra inflata* Heiden 1900 [CAS ref. 000472]

Distribution (Fig. 473):

REGION: CENTRO

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Synedra inflata*)

***Fragilaria intermedia* (Grunow) Grunow in Van Heurck 1881**, pl. 45, fig. 9-11 [CAS ref. 001035]

Basionym: *Staurosira intermedia* (Grunow) Grunow 1882 [CAS ref. 000442]

Synonym: *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot 1980a [CAS ref. 008465], according to Krammer & Lange-Bertalot 1991a, p. 124

Distribution (Fig. 474):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria intermedia* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria intermedia* Grunow); Gil et al. 1989-1990 (as *Fragilaria intermedia*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow); Gil et al. 1989-1990 (as *Fragilaria intermedia*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria intermedia*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria intermedia*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria intermedia*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria intermedia*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Fragilaria intermedia*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria intermedia* Grunow)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Fragilaria intermedia* Grun.); Gil et al. 1991 (as *Fragilaria intermedia*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Fragilaria intermedia* Grun.)

***Fragilaria islandica* Grunow in Van Heurck 1881, pl. 45, fig. 37**
[CAS ref. 001035]

Distribution (Fig. 475):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Fragilaria islandica*)

***Fragilaria lapponica* Grunow in Van Heurck 1881, pl. 45, fig. 35**
[CAS ref. 001035]

Distribution (Fig. 476):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas
Reference: Chaves 1908 (as *Fragilaria lapponica*, fossil)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Staurosira lapponica* (Grunow)
Lange-Bertalot, fossil)

***Fragilaria mesolepta* Rabenhorst 1861**, no. 1041 [CAS ref. 011622]

Nomenclatural synonym: *Fragilaria capucina* var. *mesolepta* (Rabenhorst)
Rabenhorst 1864 [CAS ref. 000775]

Distribution (Fig. 477):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* Desmazières var. *mesolepta*
Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* Desmazières var. *mesolepta*
Rabenhorst)

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Fragilaria capucina* v. *mesolepta*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* Desmazières var.
mesolepta (Rabenhorst) Rabenhorst)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* Desmazières var. *mesolepta*
Rabenhorst)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Fragilaria capucina* v. *mesolepta*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Fragilaria capucina* v. *mesolepta*)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Fragilaria capucina* v. *mesolepta*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Fragilaria capucina* Desmazières var. *mesolepta* (Rabh.) Grunow)

Subregion: Dão-Lafões

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria capucina* Desmazières var. *mesolepta* Rabenhorst)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Fragilaria capucina* Desmazières var. *mesolepta* Rabenhorst)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Fragilaria capucina* Desmazières var. *mesolepta* Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilaria mesolepta* Rabenhorst)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *mesolepta* (Rabenhorst) Rabenhorst)

***Fragilaria miniscula* (Grunow in Van Heurck) Williams & Round 1987, v. 2 (2): p. 269 [CAS ref. 003171]**

Basionym: *Synedra miniscula* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 478):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Synedra miniscula*)

***Fragilaria montana* (Krasske) Lange-Bertalot 1980a**, p. 747 [CAS ref. 008465]

Basionym: *Synedra montana* Krasske ex Hustedt 1932 [CAS ref. 000506]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Alfusqueiro River (Vouga Basin)

Reference: Gil 1989 (as *Synedra montana* Krasske)

***Fragilaria mutabilis* (W. Smith) Grunow 1862**, p. 55 (369) [CAS ref. 000428]

Basionym: *Odontidium mutabile* W. Smith 1856 [CAS ref. 001007]

Distribution (Fig. 479):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Odontidium mutabile* W. Sm.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra (Terceira Island)

Reference: Trelease 1897 (as *Odontidium mutabile* W. Sm.)

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Fragilaria mutabilis* Grun.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Fragilaria mutabilis* Grun.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Fragilaria mutabilis* Grun., fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Fragilaria mutabilis* Grun., fossil)

Municipality: Not Specified

Site: Terceira Island

Reference: Holmboe 1901 (as *Fragilaria mutabilis* (W. Sm.) Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Porto Santo

Reference: Zimmermann 1910-1911 (as *Odontidium mutabile* W. Sm.)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Odontidium mutabile* W. Sm.)

***Fragilaria nana* (F. Meister) Lange-Bertalot 1980a**, p. 746 [CAS ref. 008465]

Basionym: *Synedra nana* F. Meister 1912 [CAS ref. 000642]

Distribution (Fig. 480):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Penacova (District: Coimbra)

Site: Aguieira Reservoir, Mondego River (Mondego Basin)

Reference: Oliveira & Monteiro 1992 (as *Synedra nana*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)

Reference: Oliveira 1982b (as *Synedra nana*)

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Synedra nana*)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Synedra nana*)

Subregion: Pinhal Interior Sul

Municipality: Mação (District: Santarém)

Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Synedra nana*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Synedra nana*); Oliveira 1996 (as *Synedra nana*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Synedra nana* Meister)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Synedra nana*)

Municipality: Castelo de Vide (District: Portalegre)

Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Synedra nana*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Synedra nana* Mstr.)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Synedra nana* Mstr.)
Site: Poio Reservoir, Nisa Stream (Tagus Basin)
Reference: Nauwerck 1962 (*Synedra* cf. *nana* Meister)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
References: Oliveira 1984a (as *Synedra nana*); Coutinho 1990a (as *Synedra nana*)
Subregion: Lezíria do Tagus
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Synedra nana*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Synedra nana*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Synedra nana* Meister)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Synedra nana* Meister)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Synedra nana*)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Synedra nana* Meister)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Synedra nana* Meister)
Site: Pico da Vara
Reference: Mölder 1947 (as *Synedra nana* Meister)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Synedra nana* Meister)

***Fragilaria nanana* Lange-Bertalot in Krammer & Lange-Bertalot 1991a, p. 130 [CAS ref. 006521]**

Distribution (Fig. 481):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Mértola (District: Beja)

Site: Reservoir in the abandoned São Domingos mine

Reference: Gerhardt et al. 2008 (as *Fragilaria nanana* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria nanana* Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Fragilaria nanana* Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilaria nanana* Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria nanana* Lange-Bertalot)

***Fragilaria neoproducta* Lange-Bertalot in Krammer & Lange-Bertalot 1991, p. 136; pl. 127, figs. 1-5A; pl. 125, fig. 3 [CAS ref. 006521]**

Distribution (Fig. 482):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilaria neoproducta* Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria neoproducta* Lange-Bertalot)

***Fragilaria pinnata* var. *robusta* Manguin 1964, p. 60; pl. 4, fig. 4 a-b 130 [CAS ref. 001370]**

Distribution (Fig. 483):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Fragilaria pinnata robusta*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Fragilaria pinnata robusta*)

***Fragilaria punctatostrata* Manguin 1942**, p. 123; pl. 1, fig. 5 [CAS ref. 000623]

Distribution (Fig. 484):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Fragilaria punctato-striata* Manguin);
Bourrelly & Manguin 1946a (as *Fragilaria punctato-striata* Manguin)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria punctato-striata* Manguin)

***Fragilaria radians* (Kützing) D.M. Williams & Round 1987**, p. 269 [CAS ref. 003171]

Basionym: *Synedra radians* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Synedra acus* var. *radians* (Kützing) Hustedt 1930 [CAS ref. 000502]

Fragilaria capucina var. *radians* (Kützing) Lange-Bertalot 1991a

Distribution (Fig. 485):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Not Specified

Reference: Zimmermann 1909b (as *Synedra radians* Kütz.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Synedra acus* var. *radians*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1984a (as *Synedra acus* var. *radians*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Reference: Trelease 1897 (as *Synedra radians* Kütz.)

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Synedra radians* Sm.); Manguin 1942 (as *Synedra acus* Kütz. var. *radians* (Kütz.) Hust.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz. var. *radians* (Kütz.) Hust.)

Site: Tambores, Furnas
Reference: Chaves 1908 (as *Synedra radians* Sm., fossil)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Synedra acus* Kütz. var. *radians* (Kütz.) Hust.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz. var. *radians* (Kütz.) Hust.); Gonçalves 2008 (as *Fragilaria capucina* var. *radians* (Kützing) Lange-Bertalot)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Fragilaria radians* (Kützing) Williams & Round)

Site: Terceira Island
Reference: Holmboe 1901 (as *Synedra radians* Kütz.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Santa Luzia Stream
Reference: Zimmermann 1909a (as *Synedra radians* Kuetz.)
Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Synedra radians* Kuetz.)

***Fragilaria rhabdosoma* Ehrenberg 1832a**, p. 105 [CAS ref. 000281]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Fragilaria rhabdosoma*)

***Fragilaria rumpens* (Kützing) G.W.F. Carlson 1913**, p. 29 [CAS ref. 000188]

Basionym: *Synedra rumpens* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot ex Bukhtiyarova 1995 [CAS ref. 008000]

Distribution (Fig. 486):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *rumpens* (Kützing) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *rumpens* (Kütz.) Lange-Bertalot)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

References: Nunes et al. 2003 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot, teratological form); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *rumpens* (Kütz.) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria*

- capucina* Desmazières var. *rumpens* (Kütz.) Lange-Bertalot, teratological form)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot, teratological form); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *rumpens* (Kütz.) Lange-Bertalot)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes et al. 2002 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes et al. 2003 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot, teratological form); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *rumpens* (Kütz.) Lange-Bertalot)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra rumpens* Kützing)
- Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

References: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot, teratological form)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* var. *rumpens* (Kützing) Lange-Bertalot)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kützing)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra rumpens*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra rumpens*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Synedra rumpens* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Synedra rumpens* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Synedra rumpens* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Synedra rumpens* Kütz.); Bourrelly & Manguin 1946a (as *Synedra rumpens* Kütz.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Synedra rumpens* Kütz.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Synedra rumpens* Kütz.); Bourrelly & Manguin 1946a (as *Synedra rumpens* Kütz.)
Site: Not Specified
Reference: Mölder 1947 (as *Synedra rumpens* Kütz.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Synedra rumpens* Kütz.); Bourrelly & Manguin 1946a (as *Synedra rumpens* Kütz.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Fragilaria rumpens* Carlson)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Fragilaria rumpens* Carlson)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Fragilaria rumpens* Carlson)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Fragilaria rumpens* Carlson)
Site: Not Specified
Reference: Gonçalves 2008 (as *Fragilaria rumpens* (Kützing) G. W. F. Carlson)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Rivers in the North

Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *rumpens* (Kützing) Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *rumpens* (Kützing) Lange-Bertalot)

***Fragilaria socia* (N.M. Wallace) Lange-Bertalot 1980a**, v. 33: p. 749 9 [CAS ref. 008465]

Basionym: *Synedra socia* N.M. Wallace 1955 [CAS ref. 005729]

Distribution (Fig. 487):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra socia*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra socia*)

***Fragilaria tenera* (W. Smith) Lange-Bertalot 1980a**, p. 746 [CAS ref. 008465]

Basionym: *Synedra tenera* W. Smith 1856 [CAS ref. 001007]

Distribution (Fig. 488):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra tenera*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Synedra tenera* W. Smith)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Fragilaria tenera* (W. Smith) Lange-Bertalot)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Synedra tenera*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria tenera* (W. Smith) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria* cf. *tenera* (W. Smith) Lange-Bertalot morfo1)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria tenera* (W. Smith) Lange-Bertalot)

***Fragilaria tenuicollis* Heiberg 1863**, p. 62; pl. 5, fig. 13 [CAS ref. 000471]

Distribution (Fig. 489):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Fragilaria tenuicollis* Heib.)

***Fragilaria ulna* Sippen *angustissima* (Grunow) Lange-Bertalot 1991**, p. 144; pl. 122, figs 15, 16; pl. 114, fig. 21 [CAS ref. 006521]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria ulna* Sippen *angustissima* (Grun.) Lange-Bertalot)

***Fragilaria utermoehlii* (Hustedt) Lange-Bertalot 1993**, p. 52; Bacill. 2/3, fig. 111: 23-24 [CAS ref. 008467]

Basionym: *Synedra utermoehlii* (*utermohlii*) Hustedt 1932 [CAS ref. 000506]

Nomenclatural synonym: *Synedra tenera* var. *utermoehlii* (Hustedt) Cleve-Euler 1953 [CAS ref. 001041]

Distribution (Fig. 490):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Synedra tenera* var. *utermöhlii*)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Synedra utermohlii*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Synedra utermohlii*)

***Fragilaria vaucheriae* (Kützing) J.B. Petersen 1938, p. 167; fig. 1 a-g** [CAS ref. 000783]

Basionym: *Exilaria vaucheriae* Kützing 1833 [CAS ref. 000593]

Nomenclatural synonym: *Synedra vaucheriae* (Kützing) Kützing 1844 [CAS ref. 000595]

Fragilaria capucina var. *vaucheriae* (Kützing) Lange-Bertalot 1980a [CAS ref. 008465]

Synonym: *Fragilaria intermedia* (Grunow) Grunow in Van Heurck 1881 [CAS ref. 001035], according to Krammer & Lange-Bertalot 1991a, p. 124

Distribution (Fig. 491):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

- References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra vaucheriae*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kützing) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kütz.) Lange-Bertalot)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
- References: Nunes et al. 2002 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kütz.) Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- References: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kütz.) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra vaucheriae*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra vaucheriae*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra vaucheriae*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Synedra vaucheriae*); Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Municipality: Aveiro (District: Aveiro)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)

- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Fragilaria vaucheriae*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra vaucheriae*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra vaucheriae*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra vaucheriae*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Silva Escura (upstream of Braçal Mine), Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Municipality: Vale de Cambra (District: Aveiro)
- Site: São Pedro de Castelões, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: São João do Monte, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Varzielas, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
- Reference: Santos et al. 2002 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra vaucheriae* Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Synedra vaucheriae* Kützing); Gil et al. 1989-1990 (as *Synedra vaucheriae*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Synedra vaucheriae*)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
- Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Synedra vaucheriae* Kützing); Gil et al. 1991 (as *Synedra vaucheriae*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Synedra vaucheriae* Kütz.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Synedra vaucheriae* Kütz.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Manguin 1942 (as *Synedra vaucheriae* Kütz.); Bourrelly & Manguin 1946a (as *Synedra vaucheriae* Kütz.)
Site: Pico da Vara
References: Manguin 1942 (as *Synedra vaucheriae* Kütz.); Bourrelly & Manguin 1946a (as *Synedra vaucheriae* Kütz.)
Site: Ribeira Quente
References: Manguin 1942 (as *Synedra vaucheriae* Kütz.); Bourrelly & Manguin 1946a (as *Synedra vaucheriae* Kütz.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Synedra vaucheriae* Kütz.); Manguin 1942 (as *Synedra vaucheriae* Kütz. var. *truncata* (Grev.) Grun.); Bourrelly & Manguin 1946a (as *Synedra vaucheriae* Kütz.); Bourrelly & Manguin 1946a (as *Synedra vaucheriae* Kütz. var. *truncata* (Grev.) Grun.)
Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro

References: Manguin 1942 (as *Synedra vaucheriae* Kütz.); Bourrelly & Manguin 1946a (as *Synedra vaucheriae* Kütz.)

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Synedra vaucheriae* Kütz.)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria capucina* var. *vaucheriae* (Kützing) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kützing) Lange-Bertalot)

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kützing) Lange-Bertalot)

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kützing) Lange-Bertalot)

Site: Rivers in the North

Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kützing) Lange-Bertalot)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kützing) Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria capucina* Desmazières var. *vaucheriae* (Kützing) Lange-Bertalot)

***Fragilaria* sp.**

Distribution (Fig. 492):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira et al. 1985 (as *Fragilaria* spp.)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1985 (as *Fragilaria* spp.)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1985 (as *Fragilaria* spp.)
Subregion: Minho-Lima
Municipality: Melgaço (District: Viana do Castelo)
Site: São Gregório, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Fragilaria* sp.)

REGION: CENTRO

Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria* sp.)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Fragilaria* spp.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria* sp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Fragilaria* sp.); Cerqueira da Silva et al. 1993 (as *Fragilaria* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Fragilaria* sp.)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Fragilaria* spp.)
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Fragilaria* sp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Fragilaria* sp.)

***Fragilariforma* D.M. Williams & Round 1988, p. 265**
[CAS ref. 003205]

***Fragilariforma constricta* (Ehrenberg) Williams & Round 1988, p. 265 [CAS ref. 003205]**

Basionym: *Fragilaria constricta* Ehrenberg 1854a [CAS ref. 000966]

Distribution (Fig. 493):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Fragilaria constricta*, fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilariforma constricta* (Ehrenberg) Williams & Round, fossil)

***Fragilariforma virescens* (Ralfs) D.M. Williams & Round 1988, p. 265 [CAS ref. 003205]**

Basionym: *Fragilaria virescens* Ralfs 1843b [CAS ref. 001482]

Distribution (Fig. 494):

REGION: NORTE

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Guilhofrei Reservoir, Ave River (Ave Basin)

Reference: Nauwerck 1962 (as *Fragilaria virescens* Ralfs)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria virescens* Ralfs)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria virescens* Ralfs)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria virescens* Ralfs)

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Fragilaria virescens* Ralfs.)

Site: Porto

Reference: Tempère & Peragallo 1907-1915 (as *Fragilaria virescens* Ralfs)

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Fragilaria virescens*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*); Almeida 1998 (as *Fragilaria virescens* Ralfs)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria virescens* Ralfs)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria virescens* Ralfs)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria virescens* Ralfs)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Fragilaria virescens*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria virescens* Ralfs)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria virescens* Ralfs)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria virescens*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria virescens*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria virescens*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria virescens*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria virescens* Ralfs)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
Site: Cubo
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
Site: Diz River
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
Site: Gonçalo
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
Site: Guarda
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
Site: Meios
References: Carvalho 1913 (as *Fragilaria virescens* Ralfs); Santos & Carvalho 2001 (as *Fragilaria virescens* Ralfs)
Site: Mondego River (Mondego Basin)

- References: Carvalho 1913 (as *Fragilaria virescens* Ralfs); Santos & Carvalho 2001 (as *Fragilaria virescens* Ralfs)
- Site: Nueme
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
- Site: Porto da Carne
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Fragilaria virescens* Ralfs)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Fragilaria virescens* Ralfs.)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Fragilaria virescens*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Fragilaria virescens*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Fragilaria virescens* Ralfs)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Fragilaria virescens*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria virescens* Ralfs); Gil et al. 1989-1990 (as *Fragilaria virescens*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Fragilaria virescens*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Fragilaria virescens*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Fragilaria virescens*)
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as (as *Fragilaria virescens* Ralfs), fossil)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Fragilaria virescens* Ralfs)
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Fragilaria virescens*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Covão do Vidoal Reservoir (Mondego Basin)
References: Nauwerck 1962 (as *Fragilaria virescens* Ralfs); Santos & Carvalho 2001 (as *Fragilaria virescens* Ralfs)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Fragilaria virescens*); Cerqueira da Silva et al. 1993 (as *Fragilaria virescens*)
Site: Not Specified
References: Reference: Calado 1990 (as *Fragilaria virescens* Ralfs); Gil et al. 1991 (as *Fragilaria virescens*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Fragilaria virescens*)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Fragilaria virescens* Ralfs)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Fragilaria virescens*)

- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Fragilaria virescens*)
- Municipality: Nisa (District: Portalegre)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Fragilaria virescens* Ralfs)
- Subregion: Baixo Alentejo
 Municipality: Ferreira do Alentejo (District: Beja)
 Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Fragilaria virescens*)
- Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Fragilaria virescens*)
- REGION: AUTONOMOUS REGION OF AZORES
- Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Achada
 Reference: Mölder 1947 (as *Fragilaria virescens* Ralfs)
- Municipality: Calheta (São Jorge Island)
 Site: Pico do Calheta
 Reference: Mölder 1947 (as *Fragilaria virescens* Ralfs)
- Municipality: Lajes do Pico (Pico Island)
 Site: Lagoa do Caiado
 Reference: Mölder 1947 (as *Fragilaria virescens* Ralfs)
- Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa Grande
 Reference: Holmboe 1901 (as *Fragilaria virescens* Ralfs)
- Municipality: Povoação (São Miguel Island)
 Site: Lagoa das Furnas
 Reference: Chaves 1908 (as *Fragilaria virescens* Ralfs); Mölder 1947 (as *Fragilaria virescens* Ralfs)
- Site: Pico da Vara
 Reference: Holmboe 1901 (as *Fragilaria virescens* Ralfs)
- Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 Reference: Mölder 1947 (as *Fragilaria virescens* Ralfs)
- Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria virescens* Ralfs)
- Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria virescens* Ralfs)
- Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria virescens* Ralfs)
- Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Fragilaria virescens* Ralfs)

Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Fragilaria virescens* Ralfs)
Site: Not Specified
Reference: Gonçalves 2008 (as *Fragilaria virescens* Ralfs)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria virescens* Ralfs)

***Fragilariforma virescens* var. *elliptica* (Hustedt) Aboal in Aboal et al. 2003**, p. 81 [CAS ref. 012666]

Basionym: *Fragilaria virescens* var. *elliptica* Hustedt 1914 [CAS ref. 000493]

Distribution (Fig. 495):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)

Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria virescens* Ralfs v. *elliptica* Hustedt)

***Frustulia* Rabenhorst 1853, p. 50**
[CAS ref. 000772]

***Frustulia amosseana* Lange-Bertalot in Rumrich, Lange-Bertalot & Rumrich 2000, p. 129 [CAS ref. 009156]**

Distribution (Fig. 496):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Frustulia amosseana* Lange-Bertalot)

***Frustulia crassinervia* (Brébisson) Lange-Bertalot & Krammer in Lange-Bertalot & Metzeltin 1996, v. 2: p. 57-58; pl. 38, fig. 7-9 [CAS ref. 007048]**

Basionym: *Navicula crassinervia* Brébisson in Smith 1853 [CAS ref. 000863]

Nomenclatural synonyms: *Vanheurckia rhomboides* f. *crassinervia* Grunow in Van Heurck 1885 (as *Vanheurckia rhomboides* var. *crassinervia* (*crassinervis*) f. *crassinervia*) [CAS ref. 001040]

Frustulia rhomboides var. *crassinervia* (Brébisson in W. Smith) Ross 1947 [CAS ref. 000796]

Distribution (Fig. 497):

REGION: CENTRO

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Frustulia rhomboides* var. *crassinervia* (Bréb.) Ross)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Frustulia rhomboides* var. *crassinervia* (Bréb.) Ross)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb. var. *crassinervia* (Bréb.) V.H.)

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Navicula crassinervia* Bréb.)

Site: Furnas

Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb. var. *crassinervia* (Bréb.) V.H.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb. var. *crassinervia* (Bréb.) V.H.)

Site: Lagoa das Furnas

References: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb. var. *crassinervia* (Bréb.) V.H.); Chaves 1908 (as *Navicula crassinervia* Bréb.)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb. var. *crassinervia* (Bréb.) V.H.)

Site: Pico da Vara

Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb. var. *crassinervia* (Bréb.) V.H.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Frustulia crassinervia* (Brébisson) Lange-Bertalot & Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Frustulia crassinervia* (Brébisson) Lange-Bertalot & Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Frustulia rhomboides* (Ehr.) De Toni var. *crassinervia* (Brébisson) Ross)

***Frustulia elongata* (Willi Krieger) Lange-Bertalot in Lange-Bertalot & Jahn 2000, p. 258 [CAS ref. 011606]**

Basionym: *Frustulia rhomboides* var. *elongata* Willi Krieger in Kolkwitz & Willi Krieger 1936 [CAS ref. 002065]

Distribution (Fig. 498):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *elongata* Krieger); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *elongata* Krieger)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Frustulia elongata* (W. Krieger) Lange-Bertalot)

Site: Not Specified

Reference: Bourrelly & Manguin 1946b (as *Frustulia rhomboides* v. *elongata*)

***Frustulia erifuga* Lange-Bertalot & Krammer in Lange-Bertalot & Metzeltin 1996, v. 2: p. 58; pl. 39, fig. 1-4, pl. 120, fig. 1-3 [CAS ref. 007048]**

Distribution (Fig. 499):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Frustulia erifuga* Lange-Bertalot & Krammer)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Frustulia erifuga* Lange-Bertalot & Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Frustulia erifuga* Lange-Bertalot & Krammer)

Frustulia rhomboides (Ehrenberg) De Toni 1891, p. 277 [CAS ref. 000271]

Basionym: *Navicula rhomboides* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Vanheurckia rhomboides* (Ehrenberg) Brébisson 1869 [CAS ref. 001107]

Distribution (Fig. 500):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Frustulia rhomboides*)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Frustulia rhomboides*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Frustulia rhomboides*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Frustulia rhomboides*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Frustulia rhomboides*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Frustulia rhomboides*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Frustulia rhomboides*)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Frustulia rhomboides* (Ehrenberg) De Toni)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Frustulia rhomboides*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Frustulia rhomboides*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Frustulia rhomboides*)

Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Frustulia rhomboides*)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Frustulia rhomboides*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1909b (as *Frustulia rhomboides* (Ehr.) De Toni)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Frustulia rhomboides* (Ehrenberg) De Toni)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Frustulia rhomboides* (Ehr.) De Toni); Santos & Carvalho 2001 (as *Frustulia rhomboides* (Ehr.) De Toni)
Site: Diz River
Reference: Carvalho 1913 (as *Frustulia rhomboides* (Ehr.) De Toni)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Frustulia rhomboides* (Ehr.) De Toni)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Frustulia rhomboides*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) de Toni); Gil et al. 1989-1990 (as *Frustulia rhomboides*)

Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Frustulia rhomboides*)

Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Frustulia rhomboides*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Frustulia rhomboides* (Ehr.) De Toni)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Frustulia rhomboides* (Ehr.) De Toni)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Frustulia rhomboides* (Ehr.) De Toni)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Frustulia rhomboides*)
Site: Not Specified
References: Calado 1990 (as *Frustulia rhomboides* (Ehrenberg) De Toni);
Gil et al. 1991 (as *Frustulia rhomboides*); Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Frustulia rhomboides*); Oliveira 1987 (as *Frustulia rhomboides* (Ehr.) de Toni)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Frustulia rombooides*); Oliveira 1996 (as *Frustulia rombooides*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Frustulia rhomboides*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Frustulia rhomboides*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)
Site: Pico do Calheta
Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni)
Site: Ribeira de São João
Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni);
Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni)

Municipality: Lajes do Pico (Pico Island)
 Site: Lagoa do Caiado
 Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni)

Municipality: Nordeste (São Miguel Island)
 Site: Serra Tronqueira
 References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni);
 Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni)

Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa das Sete Cidades
 Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb.)
 Site: Pico do Carvão
 Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb.)
 Site: Pico da Cruz
 Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb.)

Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb.)
 Site: Pico do Gafanhoto
 Reference: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb.)
 Site: Pico da Vara
 References: Holmboe 1901 (as *Vanheurckia rhomboides* (Ehr.) Bréb.);
 Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni); Bourrelly &
 Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni); Mölder 1947
 (as *Frustulia rhomboides* (Ehr.) de Toni)
 Site: Pico Verde
 References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni);
 Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni)

Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni)
 Site: Ribeira Grande
 References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni);
 Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni)

Municipality: Vila do Porto (Santa Maria Island)
 Site: Not Specified
 References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni);
 Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni)

Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Frustulia rhomboides* (Ehrenberg)
 de Toni)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Frustulia rhomboides* (Ehrenberg)
 de Toni)
 Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni);
Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Frustulia rhomboides* (Ehrenberg)
de Toni)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Frustulia rhomboides* (Ehrenberg)
de Toni)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Frustulia rhomboides* (Ehrenberg)
de Toni)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Frustulia rhomboides* (Ehrenberg)
de Toni)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Frustulia rhomboides* (Ehrenberg)
de Toni)
Site: Not Specified
Reference: Gonçalves 2008 (as *Frustulia rhomboides* (Ehrenberg) de
Toni)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Frustulia rhomboides* (Ehr.) De Toni)

***Frustulia rhomboides* var. *amphipleuroides* (Grunow in Cleve &
Grunow) De Toni 1891, p. 277 [CAS ref. 000271]**

Basionym: *Navicula rhomboides* var. *amphipleuroides* Grunow in Cleve & Grunow
1880 [CAS ref. 000241]

Distribution:

REGION: NORTE
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
References: Zimmermann 1910 (as *Frustulia rhomboides* (Ehr.) De-Toni
var. *amphipleuroides* Grun.); Sampaio 1950 (as *Frustulia rhomboides*
(Ehrenb.) De-Toni var. *amphipleuroides* Grun.)

***Frustulia rhomboides f. capitata* (Ant. Mayer) Hustedt 1930, p. 221**
(as *Frustulia rhomboides* var. *saxonica f. capitata*) [CAS ref. 000502]

Basionym: *Frustulia saxonica* var. *capitata* Ant. Mayer 1917a [CAS ref. 000636]

Distribution (Fig. 501):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica f. capitata*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica f. capitata*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica f. capitata*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica f. capitata*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica f. capitata*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica f. capitata*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica f. capitata*)

Municipality: Aveiro (District: Aveiro)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica* f. *capitata*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica* f. *capitata*)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* Mayer)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica* f. *capitata*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer); Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica* f. *capitata*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Frustulia rhomboides* v. *saxonica* f. *capitata*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni f. *capitata* A. Mayer)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Frustulia rhomboides* v. *saxonica* f. *capitata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni for. *capitata* Mayer)

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni for. *capitata* Mayer)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer)

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni for. *capitata* Mayer)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni for. *capitata* Mayer)

Site: Pico da Vara

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer)

Site: Pico Verde

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer)

Site: Ribeira Grande

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer)

Site: Not Specified

Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni for. *capitata* Mayer)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *capitata* A. Mayer); Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni for. *capitata* Mayer)

Site: São Jorge Island

Reference: Johansson 1977 (as *Frustulia rhomboides* v. *saxonica* fo. *capitata* Mayer)

Site: Terceira Island

Reference: Johansson 1977 (as *Frustulia rhomboides* v. *saxonica* fo. *capitata* Mayer)

***Frustulia rhomboides* f. *undulata* Hustedt 1930**, p. 221
(as *Frustulia rhomboides* var. *saxonica* f. *undulata*) [CAS ref. 000502]

Distribution (Fig. 502):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni)

Site: Pico da Vara

Reference: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni)

Site: Ribeira Grande

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* f. *undulata* (Thw.) de Toni)

***Frustulia rhomboides* var. *viridula* (Brébisson ex Kützing) Cleve 1894, p. 123 [CAS ref. 000232]**

Basionym: *Colletonema viridulum* Brébisson in litt. Kützing 1849 [CAS ref. 000596]

Nomenclatural synonym: *Frustulia viridula* (Brébisson ex Kützing) De Toni 1891 [CAS ref. 000271]

Distribution (Fig. 503):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *viridula* (Brébisson) Cleve)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Frustulia viridula*); Oliveira 1996 (as *Frustulia viridula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Terceira Island

Reference: Johansson 1977 (as *Frustulia rhomboides* v. *viridula* Brèb.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Frustulia rhomboides* (Ehr.) De Toni var. *viridula* (Brèbisson) Cleve)

***Frustulia rostratiformis* Lange-Bertalot in Lange-Bertalot & Jahn 2000, p. 258 [CAS ref. 011606]**

Basionym: *Frustulia rhomboides* var. *rostrata* Manguin 1942 [CAS ref. 000623]

Distribution (Fig. 504):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *rostrata*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *rostrata*)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *rostrata*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *rostrata*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Frustulia rostratiformis* Lange-Bertalot)

***Frustulia saxonica* Rabenhorst 1848-1860, Alg. Sach. Nr. 42 [CAS ref. 000771]**

Nomenclatural synonym: *Frustulia rhomboides* var. *saxonica* (Rabenhorst) De Toni 1891 [CAS ref. 000271]

Distribution (Fig. 505):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni); Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Municipality: Estarreja (District: Aveiro)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, upstream of the Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Frustulia saxonica* Rabenhorst)
- Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Coimbra
 Reference: Zimmermann 1909b (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rabenh.) De Toni)
- Site: Diz River

- Reference: Carvalho 1913 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rabenh.) De Toni)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rabenh.) De Toni)
 Site: Vela
 Reference: Carvalho 1913 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rabenh.) De Toni)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel
 Reference: Zimmermann 1909b (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1909b (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni)
- Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Castelo Novo, Alpreade Stream (Tagus Basin)
 Reference: Zimmermann 1909b (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni)
 Site: Serra da Gardunha
 Reference: Zimmermann 1909b (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rab.) De Toni)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Frustulia rhomboides* (Ehr.) De Toni v. *saxonica* (Rab.) De Toni)

Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Frustulia rhomboides* var. *saxonica* (Rabenhorst) De Toni)

Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Pond near Lagoa Comprida
 Reference: Santos et al. 2002 (as *Frustulia rhomboides* var. *saxonica* (Rabenhorst) De Toni)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Frustulia rhomboides* var. *saxonica* (Rabenhorst) De Toni)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Frustulia rhomboides* (Ehr.) De Toni var. *saxonica* (Rabenhorst) De Toni); Gil et al. 1991 (as *Frustulia rhomboides* v. *saxonica*)

REGION: ALENTEJO

Subregion: Alto Alentejo
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Frustulia saxonica*)

Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Forte, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Frustulia saxonica* Rabenhorst)
 Site: Porto de Beja, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Frustulia saxonica* Rabenhorst)
 Site: Porto Ferreira, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Frustulia saxonica* Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Falca (Terceira Island)
 Reference: Gonçalves 1996 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
 Site: Lagoa da Joaninha
 Reference: Gonçalves 1996 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
 Site: Santa Bárbara
 Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)
 Municipality: Calheta (São Jorge Island)

- Site: Pico do Calheta
Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)
- Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)
- Site: Ribeira de São João
Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)
- Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*)
- Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*)
- Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
References: Krieger 1931 (as *Frustulia rhomboides* var. *saxonica* Rab.); Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)
- Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)
- Site: Pico da Vara
References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)
- Site: Pico Verde
References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*)
- Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Site: Lagoa do Negro
References: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni); Gonçalves 1996 (as *Frustulia rhomboides* (Ehrenberg) De Toni var. *saxonica* (Rabenhorst) De Toni)
- Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)

Site: Lagoa Comprida

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*)

Site: Ribeira Grande

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Frustulia saxonica* Rabenhorst)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Frustulia saxonica* Rabenhorst)

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*); Bourrelly & Manguin 1946a (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica*)

Site: Pico Island

References: Johansson 1977 (as *Frustulia rhomboides* v. *saxonica* (Rab.) de Toni); Gonçalves et al. 2010 (as *Frustulia saxonica* Rabenhorst)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Frustulia saxonica* Rabenhorst)

Site: São Jorge Island

References: Johansson 1977 (as *Frustulia rhomboides* v. *saxonica* (Rab.) de Toni); Gonçalves et al. 2010 (as *Frustulia saxonica* Rabenhorst)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Frustulia saxonica* Rabenhorst)

Site: Terceira Island

References: Johansson 1977 (as *Frustulia rhomboides* v. *saxonica* (Rab.) de Toni); Gonçalves et al. 2010 (as *Frustulia saxonica* Rabenhorst)

Site: Not Specified

Reference: Gonçalves 2008 (as *Frustulia saxonica* Rabenhorst)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Frustulia rhomboides* (Ehr.) de Toni var. *saxonica* (Rabenh.) de Toni)

Municipality: Ribeira Brava (Madeira Island)

Site: Pico Stream, Serra da Ribeira Brava

Reference: Zimmermann 1909a (as *Frustulia rhomboides* (Ehr.) De-Toni var. *saxonica* (Rab.))

Site: Pomar de Ambrosio, Campanário

Reference: Zimmermann 1909a (as *Frustulia rhomboides* (Ehr.) De-Toni var. *saxonica* (Rab.))

Site: Sítio da Chamorra, Campanário

Reference: Zimmermann 1909a (as *Frustulia rhomboides* (Ehr.) De-Toni var. *saxonica* (Rab.))

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço

Reference: Zimmermann 1909a (as *Frustulia rhomboides* (Ehr.) De-Toni var. *saxonica* (Rab.))

***Frustulia vulgaris* (Thwaites) De Toni 1891**, p. 280 [CAS ref. 000271]

Basionym: *Schizonema vulgare* Thwaites 1848 [CAS ref. 000886]

Nomenclatural synonym: *Navicula vulgaris* (Thwaites) Heiberg 1863 [CAS ref. 000471]

Distribution (Fig. 506):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Frustulia vulgaris*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Frustulia vulgaris*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni); Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Subregion: Grande Porto
Municipality: Vila Nova de Gaia (District: Porto)
Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Frustulia vulgaris*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Frustulia vulgaris* (Thwaites) De Toni)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*); Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Frustulia vulgaris*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Santo António, Valmaior, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Frustulia vulgaris* (Thwaites) De Toni);
Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)

Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)

Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Frustulia vulgaris*); Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Frustulia vulgaris*); Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Frustulia vulgaris*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Frustulia vulgaris* (Thwaites) De Toni)
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Frustulia vulgaris* (Thwaites) De Toni)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Frustulia vulgaris* Thwaites)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Cubo
Reference: Carvalho 1913 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Diz River
Reference: Carvalho 1913 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Gonçalo
Reference: Carvalho 1913 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Frustulia vulgaris* (Thwaites) De Toni); Santos & Carvalho 2001 (as *Frustulia vulgaris* (Thwaites) De Toni)

- Site: Vila Patrício
Reference: Carvalho 1913 (as *Frustulia vulgaris* (Thwaites) De Toni)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1909b (as *Frustulia vulgaris* (Thwait) De Toni)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Frustulia vulgaris*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Frustulia vulgaris*)
- Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Serra da Gardunha
Reference: Zimmermann 1909b (as *Frustulia vulgaris* (Thwait) De Toni)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1989-1990 (as *Frustulia vulgaris*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Frustulia vulgaris* (Thwaites) De Toni)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Frustulia vulgaris*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Frustulia vulgaris* (Thwaites) De Toni)
- Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Frustulia vulgaris*)
- Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Navicula vulgaris* (Thw.) H.v.H.)
- Municipality: Vila Nova da Barquinha (District: Santarém)

- Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Frustulia vulgaris*)
- Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Frustulia vulgaris* (Thwait.) De-Toni, fossil)
- Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Frustulia vulgaris*)
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Frustulia vulgaris* (Thwaites) De Toni)
- Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Frustulia vulgaris*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Frustulia vulgaris* (Thwaites) De Toni); Gil et al. 1991 (as *Frustulia vulgaris*)
- REGION: ALENTEJO
- Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984b (as *Frustulia vulgaris*); Oliveira 1987 (as *Frustulia vulgaris* (Thw.) Cl.)
- Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Frustulia vulgaris*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Frustulia vulgaris* (Thw.) Cl.)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Frustulia vulgaris* (Thw.) Cl.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Frustulia vulgaris*)
- Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Frustulia vulgaris*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1987 (as *Frustulia vulgaris* (Thw.) Cl.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Calheta (São Jorge Island)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Chaves 1908 (as *Navicula vulgaris* Ehr.); Manguin 1942 (as *Frustulia vulgaris* (Thwaites) De Toni); Bourrelly & Manguin 1946a (as *Frustulia vulgaris* (Thwaites) De Toni); Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Site: Ribeira Quente

References: Manguin 1942 (as *Frustulia vulgaris* (Thwaites) De Toni);

Bourrelly & Manguin 1946a (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Frustulia vulgaris* (Thwaites) De Toni);

Bourrelly & Manguin 1946a (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Frustulia vulgaris* (Thwaites) De Toni);

Bourrelly & Manguin 1946a (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Not Specified

Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Frustulia vulgaris* (Thwaites) De Toni); Bourrelly & Manguin 1946a (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: São Jorge Island
References: Johansson 1977 (as *Frustulia vulgaris* Thwaites); Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Not Specified
Reference: Gonçalves 2008 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Frustulia vulgaris* (Thwaites) De Toni)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Frustulia vulgaris* (Thwaites) De Toni)

Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Frustulia vulgaris* (Thwaites) De Toni)

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Frustulia vulgaris* Thwaites)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Frustulia vulgaris* (Thwaites) De Toni)

***Frustulia vulgaris* var. *capitata* Krasske 1923a**, p. 196; fig. 5 [CAS ref. 000579]

Distribution (Fig. 507):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Terceira Island
Reference: Johansson 1977 (as *Frustulia vulgaris* v. *capitata* Krasske)

***Frustulia vulgaris* f. *parva* Cleve-Euler 1952**, p. 9; fig. 1329 c
(as *Frustulia vulgaris* var. *typica* f. *parva*) [CAS ref. 001044]

Distribution (Fig. 508):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Terceira Island
Reference: Johansson 1977 (as *Frustulia vulgaris* v. *parva* Cleve)

***Frustulia* sp.**

Distribution (Fig. 509):

REGION: NORTE
Subregion: Minho-Lima
Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
Site: Barragem de Covas, Coura River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Frustulia* sp.)

***Geissleria* Lange-Bertalot & Metzeltin 1996**, p. 66
[CAS ref. 007048]

***Geissleria acceptata* (Hustedt) Lange-Bertalot & Metzeltin 1996**, v. 2: p. 64 [CAS ref. 007048]

Basionym: *Navicula acceptata* Hustedt 1950 [CAS ref. 000522]

Distribution (Fig. 510):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Geissleria acceptata* (Hust.) Lange-Bertalot & Metzeltin)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Geissleria acceptata* (Hust.) Lange-Bertalot & Metzeltin)

***Geissleria declivis* (Hustedt) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 65 [CAS ref. 007048]

Basionym: *Navicula declivis* Hustedt 1934 [CAS ref. 000508]

Distribution (Fig. 511):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Geissleria declivis* (Hustedt) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Geissleria declivis* (Hustedt) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Geissleria declivis* (Hustedt) Lange-Bertalot)

***Geissleria decussis* (Østrup) Lange-Bertalot & Metzeltin 1996**, p. 65; pl. 104, fig. 2, pl. 125, fig. 3-6 [CAS ref. 007048]

Basionym: *Navicula decussis* Østrup 1910 [CAS ref. 000706]

Distribution (Fig. 512):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula decussis* Östrup)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula decussis* Östrup)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula decussis* Östrup)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Geissleria decussis* (Ostrup) Lange-Bertalot & Metzeltin)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Geissleria decussis* (Ostrup) Lange-Bertalot & Metzeltin)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Navicula decussis*); Almeida 1998 (as *Navicula decussis* Östrup)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula decussis* Östrup)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula decussis*)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula decussis* Östrup)

Site: Perrães, Levira River (Vouga Basin)

- Reference: Almeida 1998 (as *Navicula decussis* Östrup)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula decussis*); Almeida 1998 (as *Navicula decussis* Östrup)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula decussis*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula decussis* Östrup)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Geissleria decussis* (Ostrup) Lange-Bertalot & Metzeltin)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Navicula decussis* Östrup)
 Subregion: Dão-Lafões
 Municipality: Tondela (District: Viseu)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula decussis* Östrup)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula decussis*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula decussis*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Navicula decussis* Östrup); Almeida & Gil 2001 (as *Navicula decussis* Östrup)
- REGION: AUTONOMOUS REGION OF AZORES**
 Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Geissleria decussis* (Østrup) Lange-Bertalot & Metzeltin)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Geissleria decussis* (Østrup) Lange-Bertalot & Metzeltin)
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Geissleria decussis* (Østrup) Lange-Bertalot & Metzeltin)
- REGION: Not Specified
 Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula decussis* Oestrup)

***Geissleria ignota* (Krasske) Lange-Bertalot & Metzeltin 1996**, p. 65; pl. 31, fig. 3, pl. 124, fig. 5-7 [CAS ref. 007048]

Basionym: *Navicula ignota* Krasske 1932 [CAS ref. 000583]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Geissleria ignota* (Krasske) Lange-Bertalot & Metzeltin)

***Geissleria schoenfeldii* (Hustedt) Lange-Bertalot & Metzeltin 1996**, v. 2: p. 67; pl. 123, fig. 5-6, pl. 124, fig. 1-4 [CAS ref. 007048]

Basionym: *Navicula schoenfeldii* Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 513):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula schoenfeldii* Hustedt)

Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula schoenfeldii* Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula schoenfeldii* Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula schoenfeldii* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula schoenfeldii* Hustedt)

***Glyphodesmis* Greville 1862**, p. 234
[CAS ref. 000411]

***Glyphodesmis varians* C. Zimmermann 1915b** [CAS ref. 001930]

Distribution (Fig. 514):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Poço da Cruz

Reference: Zimmermann 1915b (as *Glyphodesmis varians* Zimmermann)

***Glyphodesmis varians* var. *elegantula* C. Zimmermann 1915a**, p. 34;
pl. 4, fig. 3 [CAS ref. 003139]

Distribution (Fig. 515):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Poço da Cruz

Reference: Zimmermann 1915a (as *Glyphodesmis varians* var. *elegantula*)

***Glyphodesmis varians* var. *elongata* C. Zimmermann 1915a**, p. 34;
pl. 4, fig. 4 [CAS ref. 003139]

Distribution (Fig. 516):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Poço da Cruz

Reference: Zimmermann 1915a (as *Glyphodesmis varians* var. *elongata*)

***Glyphodesmis varians* var. *genuina* C. Zimmermann 1915a**, p. 33;
pl. 4, fig. 1 [CAS ref. 003139]

Distribution (Fig. 517):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Poço da Cruz

Reference: Zimmermann 1915a (as *Glyphodesmis varians* var. *genuina*)

***Glyphodesmis varians* var. *tumida* C. Zimmermann 1915a**, p. 33;
pl. 4, fig. 2 [CAS ref. 003139]

Distribution (Fig. 518):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Poço da Cruz

Reference: Zimmermann 1915a (as *Glyphodesmis varians* var. *tumida*)

***Gomphoneis* Cleve 1894**, p. 73
[CAS ref. 000232]

***Gomphoneis herculeana* (Ehrenberg) Cleve 1894**, p. 73 [CAS ref.
000232]

Distribution (Fig. 519):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (as *Gomphoneis herculeana* (Ehr.)
Cleve)

***Gomphoneis* sp.**

Distribution (Fig. 520):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (as *Gomphoneis* sp.)

***Gomphonema* Ehrenberg 1832b, p. 87**
[CAS ref. 000282]

***Gomphonema acuminatum* Ehrenberg 1832b, p. 88** [CAS ref. 000282]

Distribution (Fig. 521):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Gomphonema acuminatum*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Gomphonema acuminatum*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Gomphonema acuminatum*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Gomphonema acuminatum*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg); Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema acuminatum*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)

Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema acuminatum*)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema acuminatum*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Gomphonema acuminatum*); Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Gomphonema acuminatum* Ehrenberg)

Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Cubo
 Reference: Carvalho 1913 (as *Gomphonema acuminatum* Ehr.)
 Site: Guarda
 Reference: Carvalho 1913 (as *Gomphonema acuminatum* Ehr.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Gomphonema acuminatum* Ehr.); Santos & Carvalho 2001 (as *Gomphonema acuminatum* Ehr.)

Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Gomphonema acuminatum*)

Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Tondela (District: Viseu)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehrenberg)

Subregion: Médio Tejo

- Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Gomphonema acuminatum*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Gomphonema acuminatum*)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 References: Zimmermann 1906 (as *Gomphonema acuminatum* Ehr.);
 Oliveira & Caldas 1970 (as *Gomphonema acuminatum* Ehr.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema acuminatum*
 Ehrenberg)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema acuminatum*
 Ehrenberg)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema acuminatum*
 Ehrenberg)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema acuminatum*
 Ehrenberg)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Gomphonema acuminatum*)
- Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Gomphonema acuminatum*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Gomphonema acuminatum*)
- Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Gomphonema acuminatum*)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Gomphonema acuminatum* Ehrenberg)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Gomphonema acuminatum*);
Cerqueira da Silva et al. 1993 (as *Gomphonema acuminatum*); Cerqueira
da Silva 1994 (as *Gomphonema acuminatum*)
Site: Not Specified
Reference: Calado 1990 (as *Gomphonema acuminatum* Ehrenberg)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Gomphonema acuminatum*);
Oliveira 1996 (as *Gomphonema acuminatum*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Gomphonema acuminatum* Ehrenberg)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Gomphonema acuminatum* Ehr.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Gomphonema acuminatum*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Gomphonema acuminatum* Ehr.); Fernandes et
al. 1987 (as *Gomphonema acuminatum*)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Gomphonema acuminatum*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema acuminatum*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Gomphonema acuminatum* Ehr.); Fernandes et
al. 1987 (as *Gomphonema acuminatum*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Gomphonema acuminatum*)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema acuminatum* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Gomphonema acuminatum*)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema acuminatum*
Ehrenberg)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema acuminatum* Ehrenberg)

***Gomphonema acuminatum* var. *coronatum* (Ehrenberg)
Rabenhorst 1864, p. 260 [CAS ref. 000775]**

Basionym: *Gomphonema coronatum* Ehrenberg 1840a [CAS ref. 000293]

Distribution (Fig. 522):

REGION: NORTE
Subregion: Cávado
Municipality: Esposende (District: Braga)
Site: Marachão, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Gomphonema acuminatum* v.
coronata)
Municipality: Not Specified
Site: Entrepontes, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Gomphonema acuminatum* v.
coronata)
Site: Homem River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Gomphonema acuminatum* v.
coronata)
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Gomphonema acuminatum* Ehr. var. *coronata*
(Ehr.) W. Sm.)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)

- References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *coronata*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *coronata*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *coronata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *coronata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *coronata*)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Gomphonema acuminatum* Ehrenberg var. *coronata* (Ehrenberg) W. Smith)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Sobral do Campo
 Reference: Zimmermann 1909b (as *Gomphonema acuminatum* Ehr. var. *coronatum* (Ehr.) Rabenh.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *coronata*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehr.) W. Smith)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Gomphonema acuminatum* var. *coronatum* (Ehr.) Grun.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Gomphonema acuminatum* Ehr. v. *coronata* (Ehrenberg) W. Smith); Gil et al. 1991 (as *Gomphonema acuminatum* v. *coronata*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema acuminatum* var. *coronata* (Ehr.) W. Smith, fossil)

***Gomphonema acuminatum* var. *elongatum* (W. Smith) Carruthers 1864, p. 103 [CAS ref. 000189]**

Basionym: *Gomphonema elongatum* W. Smith 1855 [CAS ref. 000864]

Distribution (Fig. 523):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *elongata* W. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *elongata* W. Smith)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *elongata*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema acuminatum* v. *elongata*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *elongata* W. Smith)

***Gomphonema acutiusculum* (O. Müller) Cleve-Euler 1955**, p. 184; fig. 1279 [CAS ref. 001043]

Basionym: *Gomphonema lanceolatum* var. *acutiuscula* (*acutiusculum*) O. Müller 1898 [CAS ref. 001398]

Distribution (Fig. 524):

REGION: CENTRO

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema acutiusculum* (O. Müller) Cleve-Euler)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Gomphonema acutiusculum*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema acutiusculum* (O. Müller) Cleve-Euler)

***Gomphonema affine* Kützing 1844**, p. 86; pl. 30, fig. 54 [CAS ref. 000595]

Distribution (Fig. 525):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Gomphonema affine* Kützing)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema affine* Kützing)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Gomphonema affine*); de Figueiredo et al. 2006 (as *Gomphonema affine* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema affine* Kützing)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001 (as *Gomphonema affine* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Gomphonema affine* Kützing)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Gomphonema affine* Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema affine* Kützing)
Site: Not Specified
Reference: Gonçalves 2008 (as *Gomphonema affine* Kützing)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema affine* Kützing)

***Gomphonema angustatum* (Kützing) Rabenhorst 1864, p. 283**
[CAS ref. 000775]

Basionym: *Sphenella angustata* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 526):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Gomphonema angustatum* Agardh)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)

Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
 Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Gomphonema angustatum*)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angustatum*)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema angustatum* Agardh)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema angustatum* Agardh)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema angustatum* Agardh)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Gomphonema angustatum* (Kützing) Rabenhorst)
 Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst);
 Gil et al. 1989-1990 (as *Gomphonema angustatum*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)

Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)

Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rabenhorst)

Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Gomphonema angustatum*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Gomphonema angustatum*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Gomphonema angustatum*)

Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema angustatum* Kütz.)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Gomphonema angustatum*);
 Cerqueira da Silva et al. 1993 (as *Gomphonema angustatum*); Cerqueira
 da Silva 1994 (as *Gomphonema angustatum*)
 Site: Not Specified
 References: Calado 1990 (as *Gomphonema angustatum* (Kützing)
 Rabenhorst); Gil et al. 1991 (as *Gomphonema angustatum*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Gomphonema angustatum* (Kütz)
 Rabenh., fossil)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Gomphonema angustatum*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Gomphonema angustatum*)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Gomphonema angustatum* (Kütz.)
Rabenhorst, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Gomphonema angustatum* (Kütz.) Rabenh.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Gomphonema angustatum* (Kütz.) Rabenh.)
Municipality: Not Specified
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Gomphonema angustatum* (Kützing)
Rabenhorst)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema angustatum* (Kützing)
Rabenhorst)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Gomphonema angustatum*
Kuetz.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema angustatum* (Kützing)
Rabenhorst)

***Gomphonema angustatum* var. *intermedia* Grunow in Van Heurck
1880, pl. 24, fig. 47 [CAS ref. 000895]**

Distribution (Fig. 527):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *intermedia*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *intermedia*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *intermedia*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *intermedia*)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *intermedia*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Gomphonema angustatum* v. *intermedia*)

***Gomphonema angustatum* f. *producta* Grunow in Van Heurck 1880**, pl. 24, fig. 52-55 (as *Gomphonema angustatum* var. *producta* (*productum*) f. *producta*) [CAS ref. 000895]

Distribution (Fig. 528):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Gomphonema angustatum* v. *producta* Grunow)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema angustatum* v. *producta*)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Gomphonema angustatum* (Kg.) Rb. var. *producta* Grunow)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Gomphonema angustatum* var. *producta* Grun.)
Site: Gonçalo
Reference: Carvalho 1913 (as *Gomphonema angustatum* var. *producta* Grun.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)
Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Gomphonema angustatum* (Kütz.) Rab. v. *producta* Grunow); Gil et al. 1989-1990 (as *Gomphonema angustatum* v. *producta*)

Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Gomphonema angustatum* v. *producta*)

Site: Not Specified

References: Calado 1990 (as *Gomphonema angustatum* (Kütz.) Rab. var. *producta* Grunow); Gil et al. 1991 (as *Gomphonema angustatum* v. *producta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Gomphonema angustatum* var. *producta* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Gomphonema angustatum* Kuetz. v. *producta* Grun.)

***Gomphonema angustum* C. Agardh 1831, p. 33 [CAS ref. 000939]**

Distribution (Fig. 529):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Gomphonema angustum* Kg.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema angustum* Agardh)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema angustum* Agardh)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema angustum* Agardh)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Gomphonema angustum* Agardh)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Gomphonema angustum* Agardh)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Gomphonema angustum* Agardh)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Gomphonema angustum* Agardh)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Gomphonema angustum* Agardh)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema angustum* Agardh)

***Gomphonema angustum* var. *lunatum* (H. Germain) Aboal in Aboal et al. 2003, p. 285 [CAS ref. 012666]**

Basionym: *Gomphonema intricatum* var. *lunata* H. Germain 1981 [CAS ref. 009183]

Distribution (Fig. 530):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)
Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *lunata* Germain)

***Gomphonema anjae* Lange-Bertalot & E. Reichardt 1991**, p. 404; pl. 78, figs 1-6, 7 [CAS ref. -]

Distribution (Fig. 531):

REGION: CENTRO

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema anjae* Lange-Bertalot & Reichardt)

***Gomphonema augur* Ehrenberg 1840a**, p. 211 [CAS ref. 000293]

Distribution (Fig. 532):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Gomphonema augur* Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Gomphonema augur* Ehrenberg)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Gomphonema augur* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema augur* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema augur* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema augur* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema angur*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Gomphonema augur* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema angur*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema augur* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema angur*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Gomphonema augur* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema augur* Ehrenberg)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Gomphonema augur* Ehrenberg) ; Gil et al. 1989-1990 (as *Gomphonema angur*)

Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angur*)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema angur*)

Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Gomphonema augur* Ehrenberg)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema augur* Ehrenberg)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Gomphonema angur*)

Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Gomphonema augur* Ehr.)

Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema augur* Ehr.)

Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema augur* Ehr.)

Subregion: Not Specified

Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (*Gomphonema augur* Ehrenberg); Gil et al. 1991 (as *Gomphonema angur*)

REGION: LISBOA
 Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Gomphonema angur*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Gomphonema augur*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Gomphonema angur*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema augur* Ehrenberg)

***Gomphonema augur* var. *gautieri* Van Heurck 1885**, p. 124; (pl. 23, fig. 28) [CAS ref. 001040]

Distribution (Fig. 533):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema augur* v. *gautieri*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema augur* v. *gautieri*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck)

Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Gomphonema augur* Ehr. v. *gautieri* van Heurck); Gil et al. 1991 (as *Gomphonema augur* v. *gautieri*)

***Gomphonema augur* var. *turris* (Ehrenberg) Lange-Bertalot in Kramer & Lange-Bertalot 1985, p. 44-45; pl. 37, fig. 1-7, pl. 38, fig. 1-4, 8-12 [CAS ref. 006263]**

Basionym: *Gomphonema turris* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Gomphonema acuminatum* var. *turris* (Ehrenberg) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 534):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *turris*)
Site: Raivo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Gomphonema acuminatum* v. *turris*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Gomphonema acuminatum* Ehr. v. *turris* (Ehr.) Cleve)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- References: Gil et al. 1991 (as *Gomphonema acuminatum* v. *turris*); Almeida 1998 (as *Gomphonema augur* Ehr. var. *turris* (Ehrenberg) Lange-Bertalot)

***Gomphonema auritum* A. Braun ex Kützing 1849**, p. 68 [CAS ref. 000596]

Nomenclatural synonym: *Gomphonema gracile* var. *auritum* (A. Braun) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 535):

REGION: NORTE

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Gomphonema auritum* Braun)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Gomphonema gracile* Ehr. var. *aurita* (A. Braun) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema gracile* Ehr. var. *aurita* (A. Braun) Cleve)

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Gomphonema auritum* A. Braun ex Kützing)

***Gomphonema bipunctatum* C. Zimmermann 1915b** [CAS ref. 001930]

Distribution (Fig. 536):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Poço da Cruz (Faial Island)

Reference: Zimmermann 1915b (as *Gomphonema bipunctatum*)

***Gomphonema brebissonii* Kützing 1849**, p. 66 [CAS ref. 000596]

Nomenclatural synonym: *Gomphonema acuminatum* var. *brebissonii* (Kützing) Hustedt 1909a [CAS ref. 002268]

Distribution (Fig. 537):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema acuminatum* var. *brebissonii* (Kütz.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Gomphonema brebissonii* Kützing)

***Gomphonema capitatum* Ehrenberg 1838**, p. 217; pl. 18, fig. 2 [CAS ref. 000288]

Distribution (Fig. 538):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Gomphonema capitatum* Ehr.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1914 (as *Gomphonema capitatum* Ehr.)

Site: Not Specified

Reference: Colmeiro 1889 (as *Gomphonema capitatum* Ehrenb.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Gomphonema capitatum* Ehr.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema capitatum* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Gomphonema capitatum* Ehr.)

***Gomphonema carolinense* Hagelstein 1939**, p. 360; pl. 5, fig. 6 [CAS ref. 000454]

Distribution (Fig. 539):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Gomphonema carolinense* Hagelstein)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Gomphonema carolinense* Hagelstein)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Gomphonema carolinense* Hagelstein)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema carolinense* Hagelstein)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Gomphonema carolinense* Hagelstein)

***Gomphonema clavatum* Ehrenberg 1838**, p. 218; pl. 18, fig. 6 [CAS ref. 000288]

Synonyms: *Gomphonema longiceps* Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema mustela Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema montanum (Schumann) Grunow in Schneider 1878 [CAS ref. 010751], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema commutatum Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema subclavatum (Grunow in Van Heurck) Grunow 1884 [CAS ref. 000444], according to Krammer & Lange-Bertalot 1986, p. 367

Distribution (Fig. 540):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Gomphonema clavatum* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema clavatum* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Gomphonema clavatum*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Gomphonema clavatum*)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Gomphonema clavatum* Ehrenberg)
Site: Not Specified
Reference: Gonçalves 2008 (as *Gomphonema clavatum* Ehrenberg)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema clavatum* Ehr.)

***Gomphonema clevei* Fricke in Schmidt 1902**, pl. 234, fig. 44-46
[CAS ref. 012484]

Nomenclatural synonym: *Gomphoneis clevei* (Fricke) Gil 1989 [CAS ref. 008265]

Distribution (Fig. 541):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Gomphoneis clevei* (Fricke) Gil)
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Gomphonema clevei* Fricke)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)

- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*); Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Municipality: Anadia (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphoneis clevei* (Fricke) Gil)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes et al. 2003 (as *Gomphonema clevei* Fricke)
- Site: Silva Escura (downstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes et al. 2003 (as *Gomphonema clevei* Fricke)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Gomphoneis clevei* (Fricke) Gil)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Gomphoneis clevei*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Gomphoneis clevei* (Fricke) Gil); Gil et al. 1989-1990 (as *Gomphoneis clevei*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphoneis clevei* (Fricke) Gil)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphoneis clevei* (Fricke) Gil)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Gomphoneis clevei* (Fricke) Gil)

Subregion: Not Specified

Municipality: Not Specified

Site: Águeda, Agadão and Alfusqueiro Rivers

Reference: Gil 1989 (as *Gomphoneis clevei* (Fricke) Gil)

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Gomphoneis clevei*)

Site: Not Specified

Reference: Calado 1990 (as *Gomphoneis clevei* (Fricke) Gil)

***Gomphonema constrictum* Ehrenberg 1832a**, p. 63 [CAS ref. 000281]

Synonym: *Gomphonema truncatum* Ehrenberg 1832b [CAS ref. 000282], according to Krammer & Lange-Bertalot 1986, p. 370

Distribution (Fig. 542):

REGION: NORTE

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Gomphonema constrictum*)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Gomphonema constrictum*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Gomphonema constrictum*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Gomphonema constrictum*)

Municipality: Not Specified

Site: Homem River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Gomphonema constrictum*)
 Subregion: Douro
 Municipality: Armamar (District: Viseu)
 Site: Queimadela, Vizela River (Ave Basin)
 Reference: Fidalgo 1990 (as *Gomphonema constrictum*)
 Subregion: Grande Porto
 Municipality: Gondomar (District: Porto)
 Site: Gramido
 Reference: Silva 1950b (as *Gomphonema constrictum* Ehr.)
 Municipality: Porto (District: Porto)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Gomphonema constrictum* Ehrenb.)
 Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Gomphonema constrictum*)
 Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Gondar Stream (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Gomphonema constrictum*)
 Site: Sains, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Gomphonema constrictum*)
 Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: Alhada, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Gomphonema constrictum*)
 Municipality: Not Specified
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Gomphonema constrictum*)

REGION: CENTRO

Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Coimbra
 References: De Toni 1887 (as *Gomphonema constrictum* Ehrenberg);
 Zimmermann 1909b (as *Gomphonema constrictum* Ehr.)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Gomphonema constrictum* Ehrenb.)
 Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema constrictum* Ehrenberg)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al.
 1989-1990 (as *Gomphonema constrictum*)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema constrictum* Ehrenberg)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Gomphonema constrictum* Ehr.)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema constrictum*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Gomphonema constrictum* Ehrenberg)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Diz River
 Reference: Carvalho 1913 (as *Gomphonema constrictum* Ehr.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Gomphonema constrictum* Ehr.); Santos & Carvalho 2001 (as *Gomphonema constrictum* Ehr.)

Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)

Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema constrictum* Ehrenberg)

Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema constrictum* Ehrenberg)

Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema constrictum* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema constrictum* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema constrictum*)

Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)

- Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Cabeçadas et al. 1980 (as *Gomphonema constrictum*); Brito & Andrade 1992 (as *Gomphonema constrictum*)
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (as *Gomphonema constrictum* Ehr.)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema constrictum* Ehr.)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema constrictum* Ehr.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema constrictum* Ehr.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)
Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Gomphonema constrictum*)
Subregion: Pinhal Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Gomphonema constrictum*)
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Gomphonema constrictum*)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Gomphonema constrictum*);
Cerqueira da Silva et al. 1993 (as *Gomphonema constrictum*); Cerqueira
da Silva 1994 (as *Gomphonema constrictum*)
Site: Not Specified
References: Calado 1990 (as *Gomphonema constrictum* Ehrenberg); Gil
et al. 1991 (as *Gomphonema constrictum*)

REGION: LISBOA

Subregion: Grande Lisboa

- Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Gomphonema constrictum*)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Gomphonema constrictum*); Oliveira 1987 (as *Gomphonema constrictum* Ehr.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Gomphonema constrictum*)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Gomphonema constrictum*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Gomphonema constrictum* Ehr.); Fernandes et al. 1987 (as *Gomphonema constrictum*)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Gomphonema constrictum*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Gomphonema constrictum* Ehr.); Fernandes et al. 1987 (as *Gomphonema constrictum*)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema constrictum* Ehr., fossil)

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Gomphonema constrictum*)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema constrictum*)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Gomphonema constrictum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Gomphonema constrictum* Ehr.)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Gomphonema constrictum* Ehr.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Gomphonema constrictum* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Gomphonema constrictum* Ehr.)

Site: Lagoa das Furnas

References: Holmboe 1901 (as *Gomphonema constrictum* Ehr.); Mölder 1947 (as *Gomphonema constrictum* Ehr.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Gomphonema constrictum* Ehr.)

Site: Ribeira Quente

References: Manguin 1942 (as *Gomphonema constrictum* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema constrictum* Ehr.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Gomphonema constrictum* Ehr.)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Gomphonema constrictum* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema constrictum* Ehr.)

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Gomphonema constrictum* Ehr.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Gomphonema constrictum* Ehr.)

***Gomphonema constrictum* var. *capitatum* (Ehrenberg) Grunow 1880, pl. 23, fig. 7 [CAS ref. 000895]**

Basionym: *Gomphonema capitatum* Ehrenberg 1838 [CAS ref. 000288]

Distribution (Fig. 543):

REGION: CENTRO

- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema constrictum* Ehr. v. *capitata* van Heurck)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema constrictum* Ehr. v. *capitata* van Heurck)
- Municipality: Anadia (District: Aveiro)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema constrictum* Ehr. v. *capitata* van Heurck)
- Municipality: Mealhada (District: Aveiro)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema constrictum* v. *capitata*)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Gomphonema constrictum* Ehr. var. *capitata* (Ehr.) Cleve)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema constrictum* Ehr. v. *capitata* van Heurck)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema constrictum* Ehr. v. *capitata* van Heurck)
- Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema constrictum* Ehr. v. *capitata* van Heurck)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Gomphonema constrictum* var. *capitatum* (Ehr.) Cl.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Gomphonema constrictum* Ehr. var. *capitata* van Heurck)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Gomphonema constrictum* v. *capitata* (Ehr.) Cleve)

***Gomphonema constrictum* var. *curta* (Grunow in Van Heurck)
Van Heurck 1896, p. 270; pl. 7, fig. 298 [CAS ref. 000897]**

Basionym: *Gomphonema constrictum* var. *capitatum* f. *curta* Grunow in Van Heurck [CAS ref. 000897]

Distribution (Fig. 544):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Gomphonema constrictum* Ehr. var. *curta*); Santos & Carvalho 2001 (as *Gomphonema constrictum* Ehr. var. *curta*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Tanque nos Estanquinhos

Reference: Zimmermann 1910-1911 (as *Gomphonema constrictum* Ehr. var. *curta*)

***Gomphonema constrictum* var. *subcapitatum* Grunow in Van Heurck 1880, pl. 23, fig. 5 [CAS ref. 000895]**

Distribution (Fig. 545):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Gomphonema constrictum* var. *subcapitatum* Grun.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Gomphonema constrictum* var. *subcapitatum* Grun., fossil)

***Gomphonema dichotomum* Kützing 1833**, p. 569, fig. 48 [CAS ref. 000594]

Nomenclatural synonym: *Gomphonema gracile* var. *dichotomum* (W. Smith) Van Heurck 1885 [CAS ref. 001040]

Synonyms: *Gomphonema intricatum* Kützing 1844 [CAS ref. 000595], according to Krammer & Lange-Bertalot 1986, p. 370

Gomphonema intricatum var. *pumila* Grunow in Van Heurck 1880 [CAS ref. 001040], according to Krammer & Lange-Bertalot 1986, p. 370

Distribution (Fig. 546):

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Colmeiro 1889 (as *Gomphonema dichotomum* Kg.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: O'Meara 1874 (as *Gomphonema dichotomum*); Dyer 1875 (as *Gomphonema dichotomum* Kütz.); Holmboe 1901 (as *Gomphonema gracile* Ehr. var. *dichotoma* Kütz.); Chaves 1908 (as *Gomphonema dichotomum* Ktz.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Gomphonema dichotomum* Ktz., fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Gomphonema dichotomum* Ktz., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema dichotomum* Kützing)

***Gomphonema exiguum* Kützing 1844**, p. 84; pl. 30, fig. 58 [CAS ref. 000595]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Gomphonema exiguum* Kützing)

***Gomphonema exilissimum* (Grunow) Lange-Bertalot & E. Reichardt in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 70; pl. 62, fig. 22-27 [CAS ref. 007048]

Basionym: *Gomphonema parvulum* var. *exilissima* (*exilissimum*) Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 547):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema parvulum* Kützing var. *exilissimum* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *exilissimum* Grunow)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *exilissimum* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Gomphonema exilissimum* (Grun.) Lange-Bertalot & Reichardt, fossil)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema parvulum* var. *exilissimum* Grunow)

***Gomphonema gracile* Ehrenberg 1838**, p. 217; pl. 18, fig. 3 [CAS ref. 000288]

Distribution (Fig. 548):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Gomphonema gracile*)

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Gomphonema gracile* Ehr.)

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Caldas do Gerês, Vilar da Veiga

References: Zimmermann 1910 (as *Gomphonema gracile* Ehr.); Silva 1946b (as *Gomphonema gracile* Ehr.); Sampaio 1950 (as *Gomphonema gracile* Ehrenb.);

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Gomphonema gracile* Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Subregion: Minho-Lima

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Gomphonema gracile*)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Henriques 1884 (as *Gomphonema gracile* Ehr.);

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema gracile* Ehrenberg)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Gomphonema gracile* Ehrenberg)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema gracile* Ehrenberg)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Gomphonema gracile* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema gracile* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*); Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema gracile*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Bosturenga, Ribeira de Fráguas, Coval da M6 Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Gomphonema gracile*); Almeida 1998 (as *Gomphonema gracile* Ehrenberg)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Gomphonema gracile* Ehr.)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)

Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)

Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)

Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Gomphonema gracile*); Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema gracile*)

Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema gracile* Ehrenberg)

Municipality: Ovar (District: Aveiro)
 Site: Not Specified
 Reference: Zimmermann 1910 (as *Gomphonema gracile* Ehr.)

Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema gracile* Ehrenberg)

Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Gomphonema gracile* Ehrenberg)

Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes

Reference: Carvalho 1913 (as *Gomphonema gracile* Ehr.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Gomphonema gracile* Ehr.); Santos & Carvalho 2001 (as *Gomphonema gracile* Ehr.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Gomphonema gracile* Ehr.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Gomphonema gracile* Ehr.)
 Site: Gonçalves
 Reference: Carvalho 1913 (as *Gomphonema gracile* Ehr.)
 Site: Guarda
 Reference: Carvalho 1913 (as *Gomphonema gracile* Ehr.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Gomphonema gracile* Ehr.); Santos & Carvalho 2001 (as *Gomphonema gracile* Ehr.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Gomphonema gracile* Ehr.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Sobral do Campo
 Reference: Zimmermann 1910 (as *Gomphonema gracile* Ehr.)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Serra da Gardunha
 Reference: Zimmermann 1910 (as *Gomphonema gracile* Ehr.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Gomphonema gracile*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema gracile* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1989-1990 (as *Gomphonema gracile*)
- Subregion: Médio Tejo
- Municipality: Tomar (District: Santarém)
- Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
- References: Cabeçadas et al. 1980 (as *Gomphonema gracile*); Brito & Andrade 1992 (as *Gomphonema gracile*)
- Municipality: Torres Novas (District: Santarém)
- Site: Renova, Almonda River (Tagus Basin)
- Reference: Oliveira & Caldas 1971 (as *Gomphonema gracile* Ehrenberg)
- Municipality: Vila Nova da Barquinha (District: Santarém)
- Site: Almourol, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Gomphonema gracile*)
- Subregion: Oeste
- Municipality: Torres Vedras (District: Lisboa)
- Site: Santa Cruz
- Reference: Zimmermann 1910 (as *Gomphonema gracile* Ehr.)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
- Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
- Reference: Santos et al. 2002 (as *Gomphonema gracile* Ehrenberg)
- Municipality: Pedrógão Grande (District: Leiria)
- Site: Cabril Reservoir, Zêzere River (Tagus Basin)
- Reference: Oliveira 1982b (as *Gomphonema gracile*)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
- Site: São Romão, Lagoa do Covão do Curral
- Reference: Santos et al. 2002 (as *Gomphonema gracile* Ehrenberg)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- References: Calado 1990 (as *Gomphonema gracile* Ehrenberg); Gil et al. 1991 (as *Gomphonema gracile*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Gomphonema gracile*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1987 (as *Gomphonema gracile* Ehr.)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Gomphonema gracile* Ehrenberg)

Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 References: Oliveira 1984a (as *Gomphonema gracile*); Oliveira 1987 (as *Gomphonema gracile* Ehr.)

Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Gomphonema gracile*)

Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Gomphonema gracile*)

Municipality: Nisa (District: Portalegre)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Gomphonema gracile* Ehr.)

Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Ponte do Curval, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Gomphonema gracile* Ehrenberg)

Subregion: Lezíria do Tejo
 Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Gomphonema gracile* Ehr., fossil)

REGION: ALGARVE

Subregion: Algarve
 Municipality: Silves (District: Faro)
 Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Gomphonema gracile*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Achada
 Reference: Mölder 1947 (as *Gomphonema gracile* Ehr.)

Municipality: Corvo (Corvo Island)
 Site: Caldeira
 Reference: Mölder 1947 (as *Gomphonema gracile* Ehr.)

Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Gomphonema gracile* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema gracile* Ehr.)

Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Mölder 1947 (as *Gomphonema gracile* Ehr.)

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Gomphonema gracile* Ehr.)
Site: Pico da Vara
References: Manguin 1942 (as *Gomphonema gracile* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema gracile* Ehr.); Mölder 1947 (as *Gomphonema gracile* Ehr.)
Site: Ribeira Quente
References: Manguin 1942 (as *Gomphonema gracile* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema gracile* Ehr.)
Municipality: Praia da Vitória (Terceira Island)
Site: Fonduras
Reference: Mölder 1947 (as *Gomphonema gracile* Ehr.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Gomphonema gracile* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema gracile* Ehr.)
Site: Ribeira Grande
References: Manguin 1942 (as *Gomphonema gracile* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema gracile* Ehr.)
Site: Not Specified
Reference: Mölder 1947 (as *Gomphonema gracile* Ehr.)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Gomphonema gracile* Ehrenberg)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Gomphonema gracile* Ehrenberg)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Gomphonema gracile* Ehrenberg)
Site: São Jorge Island
References: Johansson 1977 (as *Gomphonema gracile* Ehr.); Gonçalves et al. 2010 (as *Gomphonema gracile* Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema gracile* Ehrenberg)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Gomphonema gracile* Ehrenberg)
Site: Not Specified
Reference: Gonçalves 2008 (as *Gomphonema gracile* Ehrenberg)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema gracile* Ehrenberg)

***Gomphonema hebridense* W. Gregory 1854**, p. 99; pl. 4, fig. 19
[CAS ref. 000393]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Gomphonema hebridense* Gregory)

***Gomphonema ibericum* E. Reichardt 2007**, p. 111; pl. 3, fig. 1-13,
pl. 4, fig. 1-6 [CAS ref. 012989]

Distribution (Fig. 549):

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Homem-Fiscal, Homem River (Cávado Basin)

Reference: Almeida et al. 2010 (as *Gomphonema ibericum* E. Reichardt)

Site: Outeiro, Coura River (Minho Basin)

Reference: Almeida et al. 2010 (as *Gomphonema ibericum* E. Reichardt)

REGION: CENTRO

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Fornelo, Vouga River (Vouga Basin)

Reference: Almeida et al. 2010 (as *Gomphonema ibericum* E. Reichardt)

Subregion: Pinhal Interior Norte

Municipality: Oliveira do Hospital (District: Coimbra)

Site: Alvoco das Várzeas, Alvoco River (Mondego Basin)

Reference: Almeida et al. 2010 (as *Gomphonema ibericum* E. Reichardt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Moinho da Ponte Nova, Távora River (Douro Basin)

Reference: Almeida et al. 2010 (as *Gomphonema ibericum* E. Reichardt)

***Gomphonema insigne* W. Gregory 1856**, p. 12; pl. 1, fig. 39 [CAS
ref. 000397]

Nomenclatural synonym: *Gomphonema lanceolatum* var. *insignis* (W. Gregory)
Cleve 1894, p. 183 [CAS ref. 000232]

Distribution (Fig. 550):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Gomphonema lanceolatum* Ehr. var. *insignis*
(Greg.) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema insigne* Gregory)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema insigne* Gregory)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema insigne* Gregory)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema insigne* Gregory)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema insigne* Gregory)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema insigne* Gregory)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema insigne* Gregory)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Gomphonema lanceolatum* Ehr. var. *insignis*
(Gregory) Cleve)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema lanceolatum* var. *insignis*
(Greg.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr. var. *insignis* (Greg.) Cleve)
Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr. var. *insignis* (Greg.) Cleve)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Gomphonema insignis* Greg.)
Site: Ribeira Quente
References: Manguin 1942 (as *Gomphonema lanceolatum* Ehr. var. *insignis* (Greg.) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema lanceolatum* Ehr. var. *insignis* (Greg.) Cleve)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr. var. *insignis* (Greg.) Cleve)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema insigne* Gregory)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr. var. *insignis* (Greg.) Cleve)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr. var. *insignis* (Greg.) Cleve)

***Gomphonema intricatum* Kützing 1844**, p. 87; pl. 9, fig. 4 [CAS ref. 000595]

Synonyms: *Gomphonema dichotomum* Kützing 1833 [CAS ref. 000594], according to Krammer & Lange-Bertalot 1986, p. 370
Gomphonema intricatum var. *pumila* Grunow in Van Heurck 1880 [CAS ref. 001040], according to Krammer & Lange-Bertalot 1986, p. 370

Distribution (Fig. 551):

REGION: NORTE
Subregion: Cávado
Municipality: Barcelos (District: Braga)
Site: Manhente, Cávado River (Cávado Basin)

- Reference: Cerqueira da Silva 1992 (as *Gomphonema intricatum*)
Municipality: Not Specified
Site: Homem River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Gomphonema intricatum*)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Gomphonema intricatum*)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Gomphonema intricatum*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Gomphonema intricatum*)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Gomphonema intricatum*)
- REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
Reference: Zimmermann 1910 (as *Gomphonema intricatum* Kuetz.)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema intricatum* Kützing); Gil et al. 1989-1990 (as *Gomphonema intricatum*)
Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema intricatum* Kützing); Gil et al. 1989-1990 (as *Gomphonema intricatum*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema intricatum*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)

- Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema intricatum*)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Gomphonema intricatum* Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema intricatum*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema intricatum*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema intricatum*)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Gomphonema intricatum* Kützing)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema intricatum* Kützing); Gil et al. 1989-1990 (as *Gomphonema intricatum*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Gomphonema intricatum*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kützing)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema intricatum* Kützing); Gil et al. 1989-1990 (as *Gomphonema intricatum*)
- Subregion: Médio Tejo
- Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema intricatum* Kütz.)

Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Gomphonema intricatum*)
Site: Not Specified
Reference: Calado 1990 (as *Gomphonema intricatum* Kützing)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Gomphonema intricatum* Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Holmboe 1901 (as *Gomphonema intricatum* Kütz.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Gomphonema intricatum* Ktz.)
Site: Pico da Vara
Reference: Mölder 1947 (as *Gomphonema intricatum* Kütz.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Gomphonema intricatum* Ktz., fossil)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Gomphonema intricatum* Ktz., fossil)

***Gomphonema intricatum* var. *angustata* (*angustatum*) Brun 1880,**
p. 41; pl. 6, fig. 16 [CAS ref. 000174]

Distribution (Fig. 552):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Gomphonema intricatum* Ktz. var. *angustatum* Bréb.)

***Gomphonema lagenula* Kützing 1844,** p. 85; pl. 30, fig. 60 [CAS ref. 000595]

Distribution (Fig. 553):

REGION: NORTE

Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Not Specified
Reference: Colmeiro 1889 (as *Gomphonema lagenula* Kg.)

***Gomphonema lanceolatum* Kützing 1844**, p. 87; pl. 30, fig. 59; pl. 29, fig. 73 [CAS ref. 000595]

Nomenclatural synonym: *Gomphonema gracile* var. *lanceolata* (*lanceolatum*) (Kützing) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 554):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Gomphonema lanceolatum* Ehrenberg)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema lanceolatum* Ehrenberg)

- Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Gomphonema lanceolatum*)
- Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Catefica
Reference: Zimmermann 1910 (as *Gomphonema gracile* Ehr. var. *lanceolatum*)
- Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Gomphonema lanceolatum*)
- REGION: ALENTEJO
- Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Gomphonema lanceolatum*);
Oliveira 1996 (as *Gomphonema lanceolatum*)
- Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Carvalhal diatomite
Reference: Silva 1949 (as *Gomphonema lanceolatum* Ehr. , fossil)
- Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Gomphonema lanceolatum* Ehr.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Gomphonema lanceolatum*)
- Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
References: Silva 1946a (as *Gomphonema lanceolatum* Ehr., fossil); Silva
1946b (as *Gomphonema lanceolatum* Ehr., fossil)
- REGION: AUTONOMOUS REGION OF AZORES
- Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Gomphonema lanceolatum* Ehr.);
Bourrelly & Manguin 1946a (as *Gomphonema lanceolatum* Ehr.)
Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Gomphonema lanceolatum* Ehr.);
Bourrelly & Manguin 1946a (as *Gomphonema lanceolatum* Ehr.)
Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr.)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr.)
Site: Lagoa das Furnas
References: Manguin 1942 (as *Gomphonema lanceolatum* Ehr.);
Bourrelly & Manguin 1946a (as *Gomphonema lanceolatum* Ehr.); Mölder
1947 (as *Gomphonema lanceolatum* Ehr.)
Site: Ribeira Quente
References: Manguin 1942 (as *Gomphonema lanceolatum* Ehr.);
Bourrelly & Manguin 1946a (as *Gomphonema lanceolatum* Ehr.); Mölder
1947 (as *Gomphonema lanceolatum* Ehr.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Gomphonema lanceolatum* Ehr.);
Bourrelly & Manguin 1946a (as *Gomphonema lanceolatum* Ehr.)
Municipality: Not Specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Gomphonema lanceolatum* Ehr.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Gomphonema lanceolatum* Ehr.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Schodduyn 1927 (as *Gomphonema lanceolatum* Ehr.)

***Gomphonema lapponicum* (A. Cleve) Cleve-Euler 1934**, p. 72 [CAS
ref. 000249]

Basionym: *Gomphonema angustatum* var. *lapponica* A. Cleve 1895 [CAS ref.
000243]

Distribution (Fig. 555):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Not Specified
Site: Levada da Serra (Madeira Island)
Reference: Lange-Bertalot 1999b (as *Gomphonema lapponicum* (A.
Cleve) Cleve-Euler)

***Gomphonema laticollum* E. Reichardt 2001**, p. 199, pl. 5, fig. 1-14
[CAS ref. 009469]

Distribution (Fig. 556):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema laticollum* Reichardt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Gomphonema laticollum* Reichardt)

***Gomphonema longiceps* Ehrenberg 1854a**, pl. 10/1, fig. 21 [CAS
ref. 000966]

Synonyms: *Gomphonema clavatum* Ehrenberg 1838 [CAS ref. 000288], according
to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema mustela Ehrenberg 1854a [CAS ref. 000966], according to Krammer
& Lange-Bertalot 1986, p. 367

Gomphonema montanum (Schumann) Grunow in Schneider 1878 [CAS ref.
010751], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema commutatum Grunow in Van Heurck 1880 [CAS ref. 000895],
according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema subclavatum (Grunow in Van Heurck) Grunow 1884 [CAS ref.
000444], according to Krammer & Lange-Bertalot 1986, p. 367

Distribution (Fig. 557):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)
Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Gomphonema longiceps*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Gomphonema longiceps* Ehrenberg)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehrenberg)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema longiceps* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Gomphonema longiceps* Ehr.); Bourrelly & Manguin 1946a (as *Gomphonema longiceps* Ehr.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema longiceps* Ehrenberg)

***Gomphonema longiceps* var. *subclavata* (Grunow) Hustedt 1930, p. 375 [CAS ref. 000502]**

Basionym: *Gomphonema clavatum* Grunow [CAS ref. -]

Distribution (Fig. 558):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema longiceps* v. *subclavata*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow); Gil et al. 1989-1990 (as *Gomphonema longiceps* v. *subclavata*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema longiceps* v. *subclavata*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema longiceps* v. *subclavata*)

Site: São João da Azenha, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Gomphonema longiceps* v. *subclavata*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema longiceps* v. *subclavata*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema longiceps* v. *subclavata*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema longiceps* v. *subclavata*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Gomphonema longiceps* v. *subclavata*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Gomphonema longiceps* v. *subclavata*)

REGION: ALENTEJO
Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as (as *Gomphonema longiceps* var. *subclavata* Grunow), fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Gomphonema longiceps* v. *subclavata* Grunow)

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow); Bourrelly & Manguin 1946a (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Site: Lagoa das Furnas
References: Manguin 1942 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow); Manguin 1942 (as *Gomphonema longiceps* v. *subclavata* fo. ?); Bourrelly & Manguin 1946a (as *Gomphonema longiceps* v. *subclavata* fo. ?)

Site: Ribeira Quente
Reference: Mölder 1947 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Municipality: Praia da Vitória (Terceira Island)
Site: Fonduras
Reference: Mölder 1947 (as *Gomphonema longiceps* Ehr. v. *subclavata* Grunow)

Municipality: Not Specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Gomphonema longiceps* v. *subclavata* Grunow)

***Gomphonema longiceps* f. *gracilis* Hustedt 1930**, p. 375; fig. 706
(as *Gomphonema longiceps* var. *subclavata* f. *gracilis*) [CAS ref. 000502]

Distribution (Fig. 559):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira

References: Manguin 1942 (as *Gomphonema longiceps* Ehr. var. *subclavata* Grun. fo. *gracilis* Hust.); Bourrelly & Manguin 1946a (as *Gomphonema longiceps* Ehr. var. *subclavata* Grun. fo. *gracilis* Hust.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Gomphonema longiceps* Ehr. var. *subclavata* Grun. fo. *gracilis* Hust.); Bourrelly & Manguin 1946a (as *Gomphonema longiceps* Ehr. var. *subclavata* Grun. fo. *gracilis* Hust.)

Site: Pico da Vara

References: Manguin 1942 (as *Gomphonema longiceps* Ehr. var. *subclavata* Grun. fo. *gracilis* Hust.); Bourrelly & Manguin 1946a (as *Gomphonema longiceps* Ehr. var. *subclavata* Grun. fo. *gracilis* Hust.)

***Gomphonema micropus* Kützing 1844**, p. 84; pl. 8, fig. 12 [CAS ref. 000595]

Nomenclatural synonym: *Gomphonema parvulum* var. *micropus* (Kützing) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 560):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema micropus* Kützing)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Gomphonema parvulum* (Kg.) Grun. var. *micropus* (Kg.) Cleve)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cubo

Reference: Carvalho 1913 (as *Gomphonema micropus* Kuetz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *micropus* (Kütz.) Cleve)

Municipality: Calheta (São Jorge Island)

Site: Calheta

- Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *micropus* (Kütz.) Cleve)
- Municipality: Lajes das Flores (Flores Island)
 Site: Lagoinha, Fajãzinha
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve)
- Municipality: Nordeste (São Miguel Island)
 Site: Serra Tronqueira
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve)
- Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *micropus* (Kütz.) Cleve)
 Site: Lagoa das Furnas
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve)
 Site: Ribeira Quente
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *micropus* (Kütz.) Cleve)
- Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *micropus* (Kütz.) Cleve)
- Municipality: Vila Franca do Campo (São Miguel Island)
 Site: Lagoa do Congro
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve)
- Municipality: Vila do Porto (Santa Maria Island)
 Site: Not Specified
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun. var. *micropus* (Kütz.) Cleve)
- Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema micropus* Kützing)
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema micropus* Kützing)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema micropus* Kützing)
 Site: Santa Maria Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema micropus* Kützing)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Gomphonema micropus* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *micropus* (Kütz.) Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Almeida 1998 (as *Gomphonema micropus* Kützing); INAG I.P. 2008 (as *Gomphonema micropus* Kützing var. *micropus*)

***Gomphonema minutum* C. Agardh 1831, p. 34 [CAS ref. 000939]**

Synonym: *Gomphonema tenellum* Kützing 1844 [CAS ref. 000595], according to Krammer & Lange-Bertalot 1986, p. 370

Distribution (Fig. 561):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema minutum* (Agardh) Agardh)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema minutum* (Agardh) Agardh)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema minutum* (C. Agardh) C. Agardh)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Gomphonema minutum* (C. Agardh) C. Agardh)
Site: Not Specified
Reference: Gonçalves 2008 (as *Gomphonema minutum* (C. Agardh) C. Agardh)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Gomphonema minutum* (Ag.) Agardh f. *minutum*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema minutum* (Ag.) Agardh f. *minutum*)

***Gomphonema minutum* f. *curtum* (Hustedt) Lange-Bertalot & E. Reichardt in Lange-Bertalot 1993**, p. 62-63; Bacill. 2/4, fig. 81: 6-8 [CAS ref. 008467]

Basionym: *Gomphonema curtum* Hustedt 1945 [CAS ref. 000518]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema minutum* f. *curtum* (Hustedt) Lange-Bertalot & Reichardt)

***Gomphonema montanum* (Schumann) Grunow in Schneider 1878,**
p. 108 [CAS ref. 010751]

Basionym: *Gomphonema acuminatum* var. *montanum* Schumann 1867b [CAS ref. 000814]

Synonyms: *Gomphonema clavatum* Ehrenberg 1838 [CAS ref. 000288], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema longiceps Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema mustela Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema commutatum Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema subclavatum (Grunow in Van Heurck) Grunow 1884 [CAS ref. 000444]

Distribution (Fig. 562):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Gomphonema montanum* Schum.)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Gomphonema montanum* Schuman.);

Santos & Carvalho 2001 (as *Gomphonema montanum* Schuman.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema montanum* (?))

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Gomphonema montanum* Schumann)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Gomphonema montanum* Schumann)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema montanum* (?))
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Gomphonema montanum* Schumann)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Gomphonema montanum*)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Gomphonema montanum* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Gomphonema montanum* Schum.)

***Gomphonema montanum* var. *acuminata* (*acuminatum*) (Peragallo & Héribaud in Héribaud) Ant. Mayer 1928**, p. 113; pl. 3, fig. 14, 15 [CAS ref. 002079]

Basionym: *Gomphonema subclavatum* var. *acuminata* Peragallo & Héribaud in Héribaud 1893 [CAS ref. 000481]

Distribution (Fig. 563):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Gomphonema montanum* v. *acuminatum* Mayer)

***Gomphonema mustela* Ehrenberg 1854a**, pl. 17/2, fig. 37 [CAS ref. 000966]

Synonyms: *Gomphonema clavatum* Ehrenberg 1838 [CAS ref. 000288], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema longiceps Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema montanum (Schumann) Grunow in Schneider 1878 [CAS ref. 010751], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema commutatum Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema subclavatum (Grunow in Van Heurck) Grunow 1884 [CAS ref. 000444], according to Krammer & Lange-Bertalot 1986, p. 367

Distribution (Fig. 564):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Gomphonema mustela*, fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema mustela* Ehrenberg, fossil)

***Gomphonema olivaceum* (Hornemann) Kützing 1844**, p. 85 [CAS ref. 000595]

Basionym: *Ulva olivacea* Hornemann 1806-1810 [CAS ref. 012887]

Distribution (Fig. 565):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema olivaceum* (Hornemann) Brébisson)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1909b (as *Gomphonema olivaceum* (Lyngb.) Kuetz.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Municipality: Anadia (District: Aveiro)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Gomphonema olivaceum* (Lyngbye Dawson))
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema olivaceum*)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema olivaceum*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema olivaceum*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema olivaceum*)
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (as *Gomphonema olivaceum* Kütz.)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema olivaceum* Kütz.)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema olivaceum* Kütz.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema olivaceum*)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Coutada, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Gomphonema olivaceum*)
Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Gomphonema olivaceum*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema olivaceum*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

Reference: Oliveira & Monteiro 1995 (as *Gomphonema olivaceum*);

Oliveira 1996 (as *Gomphonema olivaceum*)

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Gomphonema olivaceum* (Lyngb.) Kz.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Gomphonema olivaceum*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema olivaceum*)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Gomphonema olivaceum*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema olivaceum*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Gomphonema olivaceum* Kütz.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema olivaceum*)

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema olivaceum* (Lyngb.) Kütz., fossil)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Gomphonema olivaceum*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Gomphonema olivaceum*); Brito & Andrade 1992 (as *Gomphonema olivaceum*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Gomphonema olivaceum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Reference: Trelease 1897 (as *Gomphonema olivaceum* Kütz.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Mölder 1947 (as *Gomphonema olivaceum* (Lyngb.) Kütz.)
Site: Lagoa das Sete Cidades
References: Mölder 1947 (as *Gomphonema olivaceum* (Lyngb.) Kütz.); Oliveira 1989 (as *Gomphonema olivaceum*)
Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Gomphonema olivaceum* Ehr.)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Gomphonema olivaceum* Ehr.)
Site: Pico da Vara
Reference: Mölder 1947 (as *Gomphonema olivaceum* (Lyngb.) Kütz.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Gomphonema olivaceum* Ehr., fossil)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Gomphonema olivaceum* Ehr., fossil)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gomphonema olivaceum* (Hornemann) Brébisson)
Site: Terceira Island
References: Holmboe 1901 (as *Gomphonema olivaceum* (Lyngb.) Kütz.); Gonçalves et al. 2010 (as *Gomphonema olivaceum* (Hornemann) Brébisson)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Sítio da Pena, São João Stream
Reference: Zimmermann 1909a (as *Gomphonema olivaceum* (Lyngb.) Kuetz.)

REGION: Not Specified

Municipality: Not Specified

Site: Tagus and Sado Sedimentary Deposits

Reference: Morais et al. 2009 (as *Gomphonema olivaceum* (Hornemann)
Brébisson var. *olivaceum*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema olivaceum* (Hornemann)
Brébisson var. *olivaceum*)

***Gomphonema olivaceum* var. *calcareum* (calcareum) (Cleve) Van
Heurck 1880, pl. 25, fig. 23 [CAS ref. 000895]**

Basionym: *Gomphonema calcareum* (*calcarium*, *calcareum*) var. *calcareum* Cleve
1868 [CAS ref. 000219]

Distribution (Fig. 566):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Gomphonema olivaceum* var. *calcareum* Cleve,
fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Gomphonema olivaceum* (Lyngb.) Kütz. var.
calcareum Cleve)

***Gomphonema olivaceum* var. *minutissima* Hustedt 1930, p. 378; fig.
720 [CAS ref. 000502]**

Distribution (Fig. 567):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema olivaceum* var. *minutissimum*
Hustedt)

***Gomphonema olivaceum* var. *olivaceoides* (Hustedt) Lange-Bertalot in Lange-Bertalot & Krammer 1989**, p. 159; fig. 97: 1-20, 24, 25 [CAS ref. 006174]

Basionym: *Gomphonema olivaceoides* Hustedt 1950 [CAS ref. 000522]

Distribution (Fig. 568):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema olivaceum* var. *olivaceoides* (Hustedt) Lange-Bertalot)

***Gomphonema pala* E. Reichardt 2001**, p. 212, pl. 10, fig. 1-22, pl. 11, fig. 4-7 [CAS ref. 009469]

Distribution (Fig. 569):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Gomphonema pala* Reichardt)

***Gomphonema parvulus* (Lange-Bertalot & E. Reichardt) Lange-Bertalot & E. Reichardt in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 71; pl. 64, fig. 9-12, pl. 118, fig. 2 [CAS ref. 007048]

Basionym: *Gomphonema parvulum* var. *parvulus* Lange-Bertalot & E. Reichardt in Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 570):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema parvulum* var. *parvulus* Lange-Bertalot & Reichardt)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt)
Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulus* Lange-Bertalot et Reichardt); Almeida 2001 (as *Gomphonema parvulum* Kutz. var. *parvulus* L.-B. & Reich.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema parvulum* var. *parvulus* Lange-Bertalot & Reichardt)

***Gomphonema parvulum* (Kützing) Kützing 1849**, p. 65 [CAS ref. 000596]

Basionym: *Sphenella parvula* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 571):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Gomphonema parvulum*)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
References: Oliveira 1982a (as *Gomphonema parvulum*); Oliveira 1985 (as *Gomphonema parvulum*)
Subregion: Ave
Municipality: Guimarães (District: Braga)
Site: Rio Coelho
Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)
Municipality: Vieira do Minho (District: Braga)

- Site: Salamonde Reservoir, Cávado River (Cávado Basin)
Reference: Oliveira 1985 (as *Gomphonema parvulum*)
- Subregion: Entre Douro e Vouga
- Municipality: Arouca (District: Aveiro)
Site: Serra da Freita, Arões, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing);
Nunes 2007 (as *Gomphonema parvulum* Kützing); Ferreira da Silva et al.
2009 (as *Gomphonema parvulum* Kützing)
- Municipality: Oliveira de Azeméis (District: Aveiro)
Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing);
Nunes 2007 (as *Gomphonema parvulum* Kützing)
- Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Gomphonema parvulum* Kützing)
- Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Gomphonema parvulum* Kützing);
Almeida 2001 (as *Gomphonema parvulum* Kützing); Nunes et al. 2003
(as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema
parvulum* Kützing)
- Site: São Pedro de Castelões, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing);
Nunes 2007 (as *Gomphonema parvulum* Kützing)
- Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Subregion: Grande Porto
- Municipality: Vila Nova de Gaia (District: Porto)
Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Gomphonema parvulum*)
- Site: Quinta da Bandeira
Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)
- Subregion: Minho-Lima
- Municipality: Caminha (District: Viana do Castelo)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Gomphonema parvulum*)
- Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Gomphonema parvulum*)
- Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Gomphonema parvulum*)
- Subregion: Tâmega
- Municipality: Felgueiras (District: Porto)
Site: Pedreira, Sousa River (Douro Basin)
Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)
- Municipality: Lousada (District: Porto)

Site: Not Specified
Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema parvulum* (Kützing)
Kützing)

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Gomphonema parvulum* Kützing)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema parvulum* (Kützing)
Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al.
1989-1990 (as *Gomphonema parvulum*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al.
1989-1990 (as *Gomphonema parvulum*); Almeida 1998 (as *Gomphonema
parvulum* Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al.
1989-1990 (as *Gomphonema parvulum*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al.
1989-1990 (as *Gomphonema parvulum*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al.
1989-1990 (as *Gomphonema parvulum*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)

- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Gomphonema parvulum* Kützing); Ferreira da Silva et al. 2009 (as *Gomphonema parvulum* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing); Ferreira da Silva et al. 2009 (as *Gomphonema parvulum* Kützing)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
References: Nunes 2007 (as *Gomphonema parvulum* Kützing); Ferreira da Silva et al. 2009 (as *Gomphonema parvulum* Kützing)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Gomphonema parvulum* Kützing)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Gomphonema parvulum* Kützing)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes et al. 2002 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *parvulum*); Nunes et al. 2003 (as *Gomphonema parvulum*)

- Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing); Ferreira da Silva et al. 2009 (as *Gomphonema parvulum* Kützing)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing); Ferreira da Silva et al. 2009 (as *Gomphonema parvulum* Kützing)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Gomphonema parvulum*); Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
- Reference: Gil & Almeida 1993 (as *Gomphonema parvulum* (Koetzing) Grunow)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
 Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
 Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing)
 Site: Perrães, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Gomphonema parvulum*); Almeida 1998 (as *Gomphonema parvulum* Kützing)
 Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gomphonema parvulum*)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema parvulum* Kützing)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing)
 Site: Silva Escura, (upstream of the Braçal Mine), Mau River (Vouga Basin)

References: Nunes et al. 2003 (as *Gomphonema parvulum* Kützing); Nunes 2007 (as *Gomphonema parvulum* Kützing)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema parvulum* Kützing)

Municipality: Vila Verde (District: Aveiro)
 Site: Vila Verde, Levira River (Vouga Basin)

References: Almeida 1998 (as *Gomphonema parvulum* Kützing); Almeida 2001 (as *Gomphonema parvulum* Kützing)

Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Gomphonema parvulum* (Kützing) Grunow)

Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes

Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
 Site: Caldeirão

References: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.); Santos & Carvalho 2001 (as *Gomphonema parvulum* Kuetz.)

- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
- Site: Cubo
Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
- Site: Diz River
Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
- Site: Guarda
Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)
- Site: Guarda
Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.); Santos & Carvalho 2001 (as *Gomphonema parvulum* Kuetz.)
- Site: Nueme
Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
- Site: Vela
Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz.)
- Subregion: Beira Interior Sul
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Gomphonema parvulum*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema parvulum*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Gomphonema parvulum* (Kützing) Kützing)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)

- Reference: Gil et al. 1989-1990 (as *Gomphonema parvulum*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema parvulum* Kützing)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Gomphonema parvulum* Kützing); Gil et al. 1989-1990 (as *Gomphonema parvulum*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Gomphonema parvulum*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Gomphonema parvulum*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Gomphonema parvulum*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Gomphonema parvulum*); Brito & Andrade 1992 (as *Gomphonema parvulum*)
- Municipality: Torres Novas (District: Santarém)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema parvulum* Kütz.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema parvulum* Kütz.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema parvulum* Kütz.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Gomphonema parvulum* Kütz.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Gomphonema parvulum*)
 Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Gomphonema parvulum*)
- Subregion: Oeste
- Municipality: Torres Vedras (District: Lisboa)
 Site: Catefica
 Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Gomphonema parvulum*)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Gomphonema parvulum* (Kützing) Kützing)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Gomphonema parvulum*)
- Municipality: Pedrógão Grande (District: Leiria)

- Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Gomphonema parvulum*)
- Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Gomphonema parvulum*)
- Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Gomphonema parvulum*)
- Municipality: Proença-a-Nova (District: Castelo Branco)
Site: Isna Stream (Tagus Basin)
Reference: Zimmermann 1910 (as *Gomphonema parvulum* Kütz.)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Gomphonema parvulum* (Kützing) Kützing)
- Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Gomphonema parvulum* (Kützing) Kützing)
- Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Gomphonema parvulum* (Kützing) Kützing)
- Subregion: Not Specified
Municipality: Not Specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Gomphonema parvulum*)
- Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Gomphonema parvulum*)
- Site: Vouga River (Vouga Basin)
Reference: Ferreira et al. 2002 (as *Gomphonema parvulum*)
- Site: Not Specified
References: Calado 1990 (as *Gomphonema parvulum* (Kützing) Grunow);
Gil et al. 1991 (as *Gomphonema parvulum*)

REGION: LISBOA

Subregion: Grande Lisboa

- Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Gomphonema parvulum*)
- Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema parvulum*)

REGION: ALENTEJO

Subregion: Alentejo Central

- Municipality: Arraiolos (District: Évora)

- Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984b (as *Gomphonema parvulum*); Oliveira 1987 (as *Gomphonema parvulum* Kz.)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Gomphonema parvulum*); Oliveira 1996 (as *Gomphonema parvulum*)
- Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Gomphonema parvulum* Kützing)
Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
Reference: Oliveira 1984a (as *Gomphonema parvulum*)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Gomphonema parvulum* Kz.)
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Gomphonema parvulum*)
Municipality: Not Specified
Site: Sado Estuary (Sado Basin)
References: Oliveira & Coutinho 1992 (as *Gomphonema parvulum*); Monteiro et al. 1995 (as *Gomphonema parvulum*)
- Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Gomphonema parvulum*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Gomphonema parvulum* Kütz.); Fernandes et al. 1987 (as *Gomphonema parvulum*)
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Gomphonema parvulum*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema parvulum*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Gomphonema parvulum* Kütz.); Fernandes et al. 1987 (as *Gomphonema parvulum*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Gomphonema parvulum*)
- Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Gomphonema parvulum* Kützing)
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Gomphonema parvulum*)
Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Gomphonema parvulum*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Gomphonema parvulum*); Oliveira et al. 1989 (as *Gomphonema parvulum*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gomphonema parvulum*)
Municipality: Rio Maior (District: Santarém)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
References: Oliveira 1976 (as *Gomphonema parvulum* Kütz.); Oliveira 1984a (as *Gomphonema parvulum*)
Site: Not Specified
Reference: Silva 1946b (as *Gomphonema gracile* Ehr., fossil)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Gomphonema parvulum*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Brito & Andrade 1992 (as *Gomphonema parvulum*); Fernandes et al. 1987 (as *Gomphonema parvulum*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Gomphonema parvulum*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1987 (as *Gomphonema parvulum* Kz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Gomphonema parvulum* (Kützing) Kützing)

Municipality: Calheta (São Jorge Island)
 Site: Calheta
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)
 Site: Ribeira do Salto (São Jorge Island)
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)

Municipality: Corvo (Corvo Island)
 Site: Caldeira
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)

Municipality: Horta (Faial Island)
 Site: Flamengos
 Reference: Holmboe 1901 (as *Gomphonema parvulum* Kütz.)

Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun.)

Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa Grande
 Reference: Holmboe 1901 (as *Gomphonema parvulum* Kütz.)
 Site: Lagoa das Sete Cidades
 References: Holmboe 1901 (as *Gomphonema parvulum* Kütz.); Oliveira
 1989 (as *Gomphonema parvulum*)

Municipality: Povoação (São Miguel Island)
 Site: Furnas
 References: Holmboe 1901 (as *Gomphonema parvulum* Kütz.); Mölder
 1947 (as *Gomphonema parvulum* Kütz.)
 Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
 Reference: Holmboe 1901 (as *Gomphonema parvulum* Kütz.)
 Site: Lagoa das Furnas
 References: Holmboe 1901 (as *Gomphonema parvulum* Kütz.); Manguin
 1942 (as *Gomphonema parvulum* (Kütz.) Grun.); Bourrelly & Manguin
 1946a (as *Gomphonema parvulum* (Kütz.) Grun.); Mölder 1947 (as
Gomphonema parvulum Kütz.)
 Site: Pico do Gafanhoto
 Reference: Holmboe 1901 (as *Gomphonema parvulum* Kütz.)
 Site: Pico da Vara
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun.);
 Mölder 1947 (as *Gomphonema parvulum* Kütz.)
 Site: Ribeira Quente
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun.);
 Mölder 1947 (as *Gomphonema parvulum* Kütz.)

Municipality: Praia da Vitória (Terceira Island)
 Site: Fonduras
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun.)
 Site: Not Specified
 Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)
 Municipality: Santa Cruz da Graciosa (Graciosa Island)
 Site: Barreiro
 Reference: Azevedo et al. 2005 (as *Gomphonema parvulum*)
 Site: Fundão, Caldeira
 Reference: Azevedo et al. 2005 (as *Gomphonema parvulum*)
 Site: Tanque
 Reference: Azevedo et al. 2005 (as *Gomphonema parvulum*)
 Municipality: Vila Franca do Campo (São Miguel Island)
 Site: Lagoa do Congro
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun.)
 Municipality: Vila do Porto (Santa Maria Island)
 Site: Not Specified
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun.)
 Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
 Kützing)
 Site: Faial Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
 Kützing)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
 Kützing)
 Site: Graciosa Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
 Kützing)
 Site: Lagoa de Cazador (São Miguel Island)
 References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun.)
 Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
 Kützing)
 Site: Santa Maria Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
 Kützing)
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
 Kützing)
 Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
Kützing)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Gomphonema parvulum* (Kützing)
Kützing)

Site: Not Specified

Reference: Gonçalves 2008 (as *Gomphonema parvulum* (Kützing)
Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Gomphonema parvulum* Kuetz.)

Site: Tanque nos Estanquinhos

Reference: Zimmermann 1910-1911 (as *Gomphonema parvulum* Kuetz.)

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)

Municipality: Porto Santo (Porto Santo Island)

Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (as *Gomphonema parvulum* Kuetz.)

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema parvulum* (Kützing)
Kützing var. *parvulum* f. *parvulum*)

***Gomphonema parvulum* f. *affine* Manguin 1942**, p. 150; pl. 4, fig.
69 [CAS ref. 000623]

Distribution (Fig. 572):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun. fo. *affine*); Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun. fo. *affine*)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Gomphonema parvulum* (Kütz.) Grun. fo. *affine*); Bourrelly & Manguin 1946a (as *Gomphonema parvulum* (Kütz.) Grun. fo. *affine*)

***Gomphonema parvulum* var. *lanceolata* Grunow in Van Heurck 1880**, (p. 125); pl. 25, fig. 10 [CAS ref. 000895]

Distribution (Fig. 573):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Vela

Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz. var. *lanceolatum*)

***Gomphonema parvulum* f. *saprophilum* Lange-Bertalot & E. Reichardt in Lange-Bertalot 1993**, p. 69-70; Bacill. 2/4, fig. 76: 8-13, fig. 77: 5-9 [CAS ref. 008467]

Distribution (Fig. 574):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)

- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema parvulum* Kützing var. *parvulum* f. *saprophilum* Lange-Bertalot et Reichardt)

***Gomphonema parvulum* var. *subcapitata* Grunow in Van Heurck 1880, (p. 125); pl. 25, fig. 11 [CAS ref. 000895]**

Distribution (Fig. 575):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Gonçalo

Reference: Carvalho 1913 (as *Gomphonema parvulum* Kuetz. var. *subcapitatum*)

Gomphonema parvulum var. *subelliptica* Cleve 1894, p. 180 [CAS ref. 000232]

Distribution (Fig. 576):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve); Gil et al. 1989-1990 (as *Gomphonema parvulum* v. *subelliptica*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve); Gil et al. 1989-1990 (as *Gomphonema parvulum* v. *subelliptica*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)

Subregion: Dão-Lafões

- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve); Gil et al. 1989-1990 (as *Gomphonema parvulum* v. *subelliptica*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve); Gil et al. 1989-1990 (as *Gomphonema parvulum* v. *subelliptica*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Gomphonema parvulum* v. *subelliptica*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema parvulum* Kütz. v. *subelliptica* Cleve)
- Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema parvulum* var. *subellipticum* Cleve)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Gomphonema parvulum* v. *subelliptica*)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *subelliptica* Cleve)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Gomphonema parvulum* Kütz. var. *subelliptica* Cleve)

***Gomphonema productum* (Grunow) Lange-Bertalot & E. Reichardt in Lange-Bertalot 1993**, p. 71; pl. 73, fig. 14-17, pl. 74, fig. 1-3, Bacill. 2/4, fig. 74: 15-22 [CAS ref. 008467]

Basionym: *Gomphonema angustatum* var. *productum* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 577):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema productum* (Grunow) Lange-Bertalot et Reichardt)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Gomphonema producta*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Gomphonema producta*)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Gomphonema producta*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema productum* (Grunow) Lange-Bertalot et Reichardt)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema productum* (Grunow) Lange-Bertalot et Reichardt)

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema productum* (Grunow) Lange-Bertalot et Reichardt)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema productum* (Grunow) Lange-Bertalot et Reichardt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Gomphonema productum* (Grunow)
Lange-Bertalot & Reichardt)

***Gomphonema pseudoaugur* Lange-Bertalot 1979a**, p. 213-214; Abb. 11-16, 79, 80 [CAS ref. 008463]

Distribution (Fig. 578):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot);

Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Gomphonema pseudoaugur* Lange-Bertalot)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Gomphonema pseudoaugur* Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema pseudoaugur* Lange-Bertalot)

***Gomphonema pumilum* (Grunow) E. Reichardt & Lange-Bertalot 1991**, v. 53 (3-4): p. 528; pl. 6, fig. 4-11 [CAS ref. 008705]

Basionym: *Gomphonema intricatum* var. *pumila* Grunow in Van Heurck 1880 [CAS ref. 001040]

Synonyms: *Gomphonema dichotomum* Kützing 1833 [CAS ref. 000594], according to Krammer & Lange-Bertalot 1986, p. 370
Gomphonema intricatum Kützing 1844 [CAS ref. 000595], according to Krammer & Lange-Bertalot 1986, p. 370

Distribution (Fig. 579):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Gomphonema pumilum* (Grunow) Reichardt & Lange-Bertalot)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)

- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Municipality: Anadia (District: Aveiro)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*); Almeida 1998 (as *Gomphonema pumilum* (Grunow) Reichardt et Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema pumilum* (Grunow) Reichardt et Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema pumilum* (Grunow) Reichardt et Lange-Bertalot)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema pumilum* (Grunow) Reichardt et Lange-Bertalot)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*); Almeida 1998 (as *Gomphonema pumilum* (Grunow) Reichardt et Lange-Bertalot)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gomphonema intricatum* v. *pumila*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Gomphonema pumilum* (Grunow) Reichardt et Lange-Bertalot)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow)
- Subregion: Oeste
 Municipality: Óbidos (District: Leiria)
 Site: Not Specified
 Reference: Silva 1946b (as *Gomphonema intricatum* var. *pumila* Grun., fossil)
- Subregion: Pinhal Interior Sul
 Municipality: Vila de Rei (District: Castelo Branco)
 Site: Isna Stream (Tagus Basin)
 Reference: Zimmermann 1914 (as *Gomphonema intricatum* Kuetz. var. *pumila*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Gomphonema intricatum* Kütz. v. *pumila* Grunow); Gil et al. 1991 (as *Gomphonema intricatum* v. *pumila*); Reference: Feio et al. 2007 (as *Gomphonema* cf. *pumilum*)
- REGION: ALENTEJO
 Subregion: Lezíria do Tejo
 Municipality: Alpiarça (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Gomphonema intricatum* var. *pumila* Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Gomphonema intricatum* Kuetz.
var. *pumila*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: Tagus and Sado Sedimentary Deposits

Reference: Morais et al. 2009 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema pumilum* (Grunow)
Reichardt & Lange-Bertalot)

***Gomphonema rhombicum* Fricke in Schmidt 1904**, pl. 248, fig. 1
[CAS ref. 012486]

Distribution (Fig. 580):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)

Subregion: Minho-Lima

Municipality: Monção (District: Viana do Castelo)

Site: Segude, Mouro River (Minho Basin)

Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)

Subregion: Minho-Lima

Municipality: Not Specified

Site: Foz do Mouro, Minho River (Minho Basin)

Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)

Subregion: Not Specified

Municipality: Not Specified

Site: Homem-Fiscal, Homem River (Cávado Basin)

Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)

Site: Foz do Pequeno, Pequeno River (Ave Basin)

Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)

Site: Pontilhão de Celeirós, Vez River (Lima Basin)

Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)

Site: Outeiro, Coura River (Minho Basin)

Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)

- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Gomphonema rhombicum* Fricke)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Fornelo, Vouga River (Vouga Basin)
 Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)
- Subregion: Pinhal Interior Norte
 Municipality: Oliveira do Hospital (District: Coimbra)
 Site: Alvoco das Várzeas, Alvoco River (Mondego Basin)
 Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Feio et al. 2007 (as *Gomphonema rhombicum*)
- REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Alto-Douro Rivers
 Reference: Morais et al. 2009 (as *Gomphonema rhombicum* Fricke)
 Site: Moinho da Ponte Nova, Távora River (Douro Basin)
 Reference: Almeida et al. 2010 (as *Gomphonema rhombicum* Fricke)
 Site: Mountain Rivers in the North
 Reference: Morais et al. 2009 (as *Gomphonema rhombicum* Fricke)
 Site: Rivers in the North
 Reference: Morais et al. 2009 (as *Gomphonema rhombicum* Fricke)
 Site: Not Specified
 Reference: INAG I.P. 2008 (as *Gomphonema rhombicum* Fricke)

***Gomphonema rosenstockianum* Lange-Bertalot & E. Reichardt 1993, p. 71; pl. 76, figs. 1-10 [CAS ref. 008467]**

Distribution (Fig. 581):

REGION: ALGARVE

Subregion: Algarve

Municipality: Loulé (District: Faro)

Site: Tôr, Algibre Stream (Ribeiras do Algarve Basin)

Reference: Novais et al. 2009 (as *Gomphonema rosenstockianum* Lange-Bert. et E. Reichardt in Lange-Bert.)

Municipality: Portimão (District: Faro)

Site: Pereira, Arão Stream (Ribeiras do Algarve Basin)

Reference: Novais et al. 2009 (as *Gomphonema rosenstockianum* Lange-Bert. et E. Reichardt in Lange-Bert.)

***Gomphonema sagitta* Schumann 1862**, p. 187; pl. 9, fig. 29 [CAS ref. 000813]

Nomenclatural synonym: *Gomphonema subtile* var. *sagitta* (Schumann) Cleve 1894 [CAS ref. 000232]

Synonym: *Gomphonema subtile* Ehrenberg 1843a [CAS ref. 000294], according to Krammer & Lange-Bertalot 1986, p. 369

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Gomphonema subtile* Ehrenberg var. *sagitta* (Schumann) Cleve)

***Gomphonema sarcophagus* W. Gregory 1856**, p. 13; pl. 1, fig. 42 [CAS ref. 000397]

Distribution (Fig. 582):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Gonçalo

Reference: Carvalho 1913 (as *Gomphonema sarcophagus* Greg.)

***Gomphonema sphaerophorum* Ehrenberg 1845d**, p. 78 [CAS ref. 000955]

Distribution (Fig. 583):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Gomphonema sphaerophorum* Ehr.)

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Gomphonema sphaerophorum* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Gomphonema sphaerophorum* Ehr.)

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Gomphonema sphaerophorum* Ehr.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Gomphonema sphaerophorum* Ehr.)

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Gomphonema sphaerophorum* Ehr.)

***Gomphonema subclavatum* (Grunow in Van Heurck) Grunow 1884**, p. 46 (98); pl. 1 (A), fig. 13 [CAS ref. 000444]

Basionym: *Gomphonema montanum* var. *subclavatum* Grunow in Van Heurck 1880 [CAS ref. 000895]

Synonyms: *Gomphonema clavatum* Ehrenberg 1838 [CAS ref. 000288], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema longiceps Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema mustela Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema montanum (Schumann) Grunow in Schneider 1878 [CAS ref. 010751], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema commutatum Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 367

Distribution (Fig. 584):

REGION: CENTRO

- Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Mondego River (Mondego Basin)
Reference: Zimmermann 1906 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfrazes
Reference: Carvalho 1913 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)
Site: Caldeirão
References: Carvalho 1913 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.); Santos & Carvalho 2001 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)
Site: Diz River
Reference: Carvalho 1913 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.); Santos & Carvalho 2001 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)
- Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema montanum* var. *subclavatum* Grun.)

REGION: LISBOA

- Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Gomphonema subclavatum*)

REGION: ALENTEJO

- Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1987 (as *Gomphonema subclavatum* Grun.)

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Gomphonema subclavatum*)
Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Gomphonema subclavatum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)
Municipality: Horta (Faial Island)
Site: Flamengos
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)
Site: Lagoa Pequena
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)
Site: Lagoa das Sete Cidades
References: Holmboe 1901 (as *Gomphonema subclavatum* Grun.);
Oliveira 1989 (as *Gomphonema subclavatum*)
Municipality: Povoação (São Miguel Island)
Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)
Site: Lagoa das Furnas
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)
Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)
Site: Pico da Vara
Reference: Holmboe 1901 (as *Gomphonema subclavatum* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Gomphonema montanum*
Schum. var. *subclavatum* Grun.)
Site: Tanque nos Estanquinhos
Reference: Zimmermann 1910-1911 (as *Gomphonema montanum* Schum.
var. *subclavatum* Grun.)
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Gomphonema montanum* Schum.
var. *subclavatum* Grun.)
Municipality: Ribeira Brava (Madeira Island)

Site: Pico Stream, Serra da Ribeira Brava
Reference: Zimmermann 1909a (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)

Site: Pomar de Ambrosio, Campanário
Reference: Zimmermann 1909a (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)

Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)

Municipality: Santana (Madeira Island)

Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Gomphonema montanum* Schum. var. *subclavatum* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema subclavatum* Grunow)

***Gomphonema subclavatum* var. *commutatum* (Grunow in Van Heurck) Ant. Mayer 1919**, p. 206; pl. 8, fig. 25, 26 [CAS ref. 000637]

Basionym: *Gomphonema commutatum* Grunow in Van Heurck 1880 [CAS ref. 000895]

Nomenclatural synonym: *Gomphonema montanum* var. *commutatum* (Grunow in Van Heurck) Grunow in Van Heurck 1885 [CAS ref. 001040]

Synonyms: *Gomphonema clavatum* Ehrenberg 1838 [CAS ref. 000288], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema longiceps Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema mustela Ehrenberg 1854a [CAS ref. 000966], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema montanum (Schumann) Grunow in Schneider 1878 [CAS ref. 010751], according to Krammer & Lange-Bertalot 1986, p. 367

Gomphonema subclavatum (Grunow in Van Heurck) Grunow 1884 [CAS ref. 000444], according to Krammer & Lange-Bertalot 1986, p. 367

Distribution (Fig. 585):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfrazes

Reference: Carvalho 1913 (as *Gomphonema montanum* Schuman. var. *commutatum* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Gomphonema montanum* Schuman. var. *commutatum* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Gomphonema montanum* Schuman. var. *commutatum* Grun.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Gomphonema montanum* Schuman. var. *commutatum* Grun.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Gomphonema montanum* Schuman. var. *commutatum* Grun.); Santos & Carvalho 2001 (as *Gomphonema montanum* Schum. var. *commutatum* Grun.)

***Gomphonema (montanum var.) subclavatum formae minores majis obtusatae* [CAS ref. -]**

Distribution (Fig. 586):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Vela

Reference: Carvalho 1913 (as *Gomphonema (montanum var.) subclavatum formae minores majis obtusatae*)

***Gomphonema subtile* Ehrenberg 1843a, p. 416 (128) [CAS ref. 000294]**

Synonym: *Gomphonema sagitta* Schumann 1862 [CAS ref. 000813], according to Krammer & Lange-Bertalot 1986, p. 369

Distribution (Fig. 587):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Gomphonema subtile* Ehr., fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Gomphonema subtile* Ehrenberg)

***Gomphonema tenellum* Kützing 1844**, p. 84; 8/8b, 14/7, fig. 5, 6
[CAS ref. 000595]

Nomenclatural synonym: *Gomphonema olivaceum* var. *tenellum* (Kützing) Cleve
1894 [CAS ref. 000232]

Synonym: *Gomphonema minutum* C. Agardh 1831 [CAS ref. 000939], according to
Krammer & Lange-Bertalot 1986, p. 370

Distribution (Fig. 588):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema tenellum*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema tenellum*)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Angra do Heroísmo (Terceira Island)
Reference: Trelease 1897 (as *Gomphonema tenellum* Kütz.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: O'Meara 1874 (as *Gomphonema tenellum*); Dyer 1875 (as
Gomphonema tenellum Kütz.); Holmboe 1901 (as *Gomphonema*
olivaceum (Lyngb.) Kütz. var. *tenellum* Kütz.); Chaves 1908 (as
Gomphonema tenellum Ktz.)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Gomphonema tenellum* Ktz., fossil)
Municipality: Not Specified
Site: Terceira Island
Reference: Holmboe 1901 (as *Gomphonema olivaceum* (Lyngb.) Kütz.
var. *tenellum* Kütz.)

***Gomphonema tergestinum* (Grunow in Van Heurck) Fricke in Schmidt 1902**, pl. 234, fig. 39-43 [CAS ref. 012484]

Basionym: *Gomphonema semiapertum* var. *tergestina* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 589):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Gomphonema tergestinum* (Grunow) Fricke)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Gomphonema tergestinum* (Grunow) Fricke)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema tergestinum* Fricke)

***Gomphonema truncatum* Ehrenberg 1832b**, p. 88 [CAS ref. 000282]

Synonym: *Gomphonema constrictum* Ehrenberg 1832a [CAS ref. 000281], according to Krammer & Lange-Bertalot 1986, p. 370

Distribution (Fig. 590):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Gomphonema truncatum* Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg);

Nunes 2007 (as *Gomphonema truncatum* Ehrenberg)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Gomphonema truncatum* Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Gomphonema truncatum* Ehrenberg)

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Gomphonema truncatum* Ehrenberg)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema truncatum* Ehrenberg)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gomphonema truncatum* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Gomphonema truncatum* Ehrenberg)
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Gomphonema truncatum* Ehrenberg)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema truncatum*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema truncatum*)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Gomphonema truncatum* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Gomphonema truncatum* Ehrenberg)
Site: Santa Maria
Reference: Gonçalves et al. 2010 (as *Gomphonema truncatum* Ehrenberg)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Gomphonema truncatum* Ehrenberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gomphonema truncatum* Ehr.)

***Gomphonema truncatum* var. *capitatum* (Ehrenberg) R.M. Patrick
in Patrick & Reimer 1975, p. 119-120; pl. 16, fig. 4 [CAS ref.
006176]**

Distribution (Fig. 591):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema truncatum capitatum*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gomphonema truncatum capitatum*)

***Gomphonema uniserhobicum* E. Reichardt 2005**, p. 136; pl. 9, fig. 1-14 [CAS ref. 012988]

Distribution (Fig. 592):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Monção (District: Viana do Castelo)

Site: Segude, Mouro River (Minho Basin)

Reference: Almeida et al. 2010 (as *Gomphonema uniserhobicum* E. Reichardt)

Subregion: Minho-Lima

Municipality: Not Specified

Site: Foz do Mouro, Minho River (Minho Basin)

Reference: Almeida et al. 2010 (as *Gomphonema uniserhobicum* E. Reichardt)

Subregion: Not Specified

Municipality: Not Specified

Site: Homem-Fiscal, Homem River (Cávado Basin)

Reference: Almeida et al. 2010 (as *Gomphonema uniserhobicum* E. Reichardt)

Site: Foz do Pequeno, Pequeno River (Ave Basin)

Reference: Almeida et al. 2010 (as *Gomphonema uniserhobicum* E. Reichardt)

Site: Pontilhão de Celeirós, Vez River (Lima Basin)

Reference: Almeida et al. 2010 (as *Gomphonema uniserhobicum* E. Reichardt)

Site: Outeiro, Coura River (Minho Basin)

Reference: Almeida et al. 2010 (as *Gomphonema uniserhobicum* E. Reichardt)

REGION: CENTRO

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Fornelo, Vouga River (Vouga Basin)

Reference: Almeida et al. 2010 (as *Gomphonema uniserhobicum* E. Reichardt)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Moinho da Ponte Nova, Távora River (Douro Basin)
Reference: Almeida et al. 2010 (as *Gomphonema uniserhombicum* E. Reichardt)

***Gomphonema utae* Lange-Bertalot & E. Reichardt apud E. Reichardt 1999**, p. 27; pls. 28, 29 [CAS ref. 009018]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema utae* Lange-Bertalot & Reichardt)

***Gomphonema ventricosum* W. Gregory 1856**, p. 12; pl. 1, fig. 40 [CAS ref. 000397]

Distribution (Fig. 593):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Gomphonema ventricosum* Greg., fossil)

***Gomphonema vibrio* Ehrenberg 1843a**, p. 416 (128); pl. 2/1, fig. 40 [CAS ref. 000294]

Nomenclatural synonym: *Gomphonema intricatum* var. *vibrio* (Ehrenberg) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 594):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal do Feijão, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Gomphonema vibrio* Ehr.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Gomphonema intricatum* Kütz. v. *vibrio* (Ehr.) Cleve); Bourrelly & Manguin 1946a (as *Gomphonema intricatum* Kütz. v. *vibrio* (Ehr.) Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Gomphonema intricatum* Kütz. v. *vibrio* (Ehr.) Cleve)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Gomphonema intricatum* Kütz. v. *vibrio* (Ehr.) Cleve)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Gomphonema vibrio* Ehr.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Gomphonema vibrio* Ehr., fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Gomphonema vibrio* Ehr., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Gomphonema vibrio* Ehrenberg)

***Gomphonema* sp.**

Distribution (Fig. 595):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)

Reference: Geraldès & Boavida 2005 (as *Gomphonema* sp.)

Subregion: Minho-Lima

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Gomphonema* sp.)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Gomphonema* sp.)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)

Site: Barragem de Covas, Coura River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Gomphonema* sp.)

Municipality: Not Specified

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Gomphonema* sp.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema* sp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema* sp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Gomphonema* sp.)

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Gomphonema* sp.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Gomphonema* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema* sp.)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema* sp.)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Gomphonema* sp.)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Gomphonema* sp.)

Subregion: Lezíria do Tejo

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gomphonema* sp.)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Gomphonema* sp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Gomphonema* sp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Gomphonema* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Gomphonema* sp.)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Levada do Curral dos Romeiros
Reference: Schodduyn 1927 (as *Gomphonema* sp.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema* species)

***Gomphosphenia* Lange-Bertalot 1995,**
p. 243 [CAS ref. 006341]

***Gomphosphenia lingulatiformis* (Lange-Bertalot & E. Reichardt)
Lange-Bertalot 1995, p. 242; pl. 4, fig. 1-4 [CAS ref. 006341]**

Basionym: *Gomphonema lingulatiforme* Lange-Bertalot & E. Reichardt in Lange-Bertalot 1993 [CAS ref. 008467]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gomphonema lingulatiformis* Lange-Bertalot & Reichardt)

Grammatophora Ehrenberg 1840b, p. 46
[CAS ref. 000290]

***Grammatophora macilenta* W. Smith 1856**, p. 43; pl. 61, fig. 382
[CAS ref. 001007]

Nomenclatural synonym: *Grammatophora oceanica* var. *macilenta* (W. Smith)
Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 596):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Grammatophora oceanica* (Ehr.) Grun.
var. *macilenta* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as
Grammatophora oceanica (Ehr.) Grun. var. *macilenta* (W. Sm.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Grammatophora oceanica* (Ehr.) Grun.
var. *macilenta* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as
Grammatophora oceanica (Ehr.) Grun. var. *macilenta* (W. Sm.) Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Grammatophora macilenta* W. M.
Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Grammatophora macilenta* W. M.
Smith)

***Grammatophora oceanica* Ehrenberg 1840d**, p. 161 [CAS ref.
000292]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Grammatophora oceanica*)

***Grammatophora serpentina* (Ralfs) Ehrenberg 1844b**, p. 203 [CAS ref. 001184]

Basionym: *Striatella taeniaeformis* var. *serpentina* Ralfs 1843c [CAS ref. 001832]

Distribution (Fig. 597):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Grammatophora serpentina* Eh.)

Grammonema C. Agardh 1832, p. 63
[CAS ref. 000940]

***Grammonema striatula* (Lyngbye) C. Agardh 1832**, p. 63 [CAS ref. 000940]

Basionym: *Fragilaria striatula* Lyngbye 1819 [CAS ref. 000620]

Distribution (Fig. 598):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Campo das Navas, São Fiel

Reference: Zimmermann 1909b (as *Grammonema striatulum* (Lyngb.) Ag.)

Gyrosigma Hassall 1845, p. 435
[CAS ref. 000469]

***Gyrosigma acuminatum* (Kützing) Rabenhorst 1853**, p. 47; pl. 5, fig. 5a [CAS ref. 000772]

Basionym: *Frustulia acuminata* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonym: *Pleurosigma acuminatum* (Kützing) Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 599):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Gyrosigma acuminatum* (Kütz.) Rabenhorst)

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma acuminatum*)

Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Gyrosigma acuminatum*); Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma acuminatum*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Gyrosigma acuminatum* (Koetz.) Rabenhorst)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Gyrosigma acuminatum* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Gyrosigma acuminatum*)

- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gyrosigma acuminatum*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Gyrosigma acuminatum*); Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)
- Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Gyrosigma acuminatum* (Kütz.) Rabenhorst)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Gyrosigma acuminatum*)
- Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gyrosigma acuminatum*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Gyrosigma acuminatum* (Kützing) Rabenhorst)
- REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Pleurosigma acuminatum*)
- REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
Reference: Oliveira & Monteiro 1995 (as *Gyrosigma acuminatum*);
Oliveira 1996 (as *Gyrosigma acuminatum*)

Subregion: Alentejo Litoral
Municipality: Not Specified
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Gyrosigma acuminatum*)

Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gyrosigma acuminatum*)

Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Gyrosigma acuminatum*)

Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Gyrosigma acuminatum*)

Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Gyrosigma acuminatum*)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Gyrosigma acuminatum* (Kützing)
Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Pleurosigma acuminatum* Ktz.)

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Gyrosigma acuminatum* (Kützing)
Rabenhorst)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Gyrosigma acuminatum* (Kützing)
Rabenhorst)

***Gyrosigma acuminatum* var. *brebissonii* (Grunow in Cleve & Grunow) Cleve 1894, p. 114 [CAS ref. 000232]**

Basionym: *Pleurosigma brebissonii* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 600):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pleurosigma brebissonii* Grun., fossil)

***Gyrosigma attenuatum* (Kützing) Rabenhorst 1853, p. 47 [CAS ref. 000772]**

Basionym: *Frustulia attenuata* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonym: *Pleurosigma attenuatum* (Kützing) W. Smith 1852 [CAS ref. 000862]

Gyrosigma attenuatum (Kützing) Cleve 1894, p. 115 [CAS ref. 000232]

Distribution (Fig. 601):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Gyrosigma attenuatum* (Kütz.) Rabenhorst)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- References: Gil 1988 (as *Gyrosigma attenuatum* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Gyrosigma attenuatum*)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Gyrosigma attenuatum*)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Gyrosigma attenuatum* (Kützing) Rabenhorst)
- Subregion: Baixo Mondego
 Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Irrigation channel near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Gyrosigma attenuatum* (Kützing) Rabenhorst)
- Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Gyrosigma attenuatum* (Kützing) Rabenhorst)
- Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pleurosigma attenuatum*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Gyrosigma attenuatum* (Kütz.) Rabenhorst)
- Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Pleurosigma attenuatum* W. Smith)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Gil et al. 1991 (as *Gyrosigma attenuatum*); Almeida 1998 (as *Gyrosigma attenuatum* (Kützing) Rabenhorst)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Pleurosigma attenuatum*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

References: Oliveira 1976 (as *Pleurosigma attenuatum* W. Sm.); Oliveira 1984a (as *Pleurosigma attenuatum*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)

Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Pleurosigma attenuatum*)

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Pleurosigma attenuatum*)

***Gyrosigma distortum* (W. Smith) Cleve 1894**, p. 116 [CAS ref. 000232]

Basionym: *Pleurosigma distortum* W. Smith 1852 [CAS ref. 000862]

Distribution (Fig. 602):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma distortum*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Gyrosigma distortum*)

***Gyrosigma kuetzingii* (Grunow) Cleve 1894**, p. 115 [CAS ref. 000232]

Basionym: *Pleurosigma kuetzingii* Grunow 1860 [CAS ref. 000427]

Synonym: *Gyrosigma spenceri* (*spencerii*) (W. Smith) J.W. Griffith & Henfrey 1856 [CAS ref. 001935], according to Krammer & Lange-Bertalot 1986, p. 298

Distribution (Fig. 603):

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Gadiana Basin)

Reference: Oliveira & Monteiro 1995 (as *Gyrosigma kutzingii*); Oliveira 1996 (as *Gyrosigma kutzingii*)

***Gyrosigma macrum* (W. Smith) Cleve 1894**, p. 117 [CAS ref. 000232]

Basionym: *Pleurosigma macrum* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 604):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gyrosigma macrum* W. Smith)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Gyrosigma macrum* W. Smith)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Lagoacho Reservoir

Reference: Santos et al. 2002 (as *Gyrosigma macrum* W. Smith)

***Gyrosigma nodiferum* (Grunow) Reimer in Patrick & Reimer 1966**, p. 320; pl. 24, fig. 2 [CAS ref. 003167]

Basionym: *Pleurosigma nodiferum* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nomenclatural synonym: *Pleurosigma spenceri* (*spencerii*) var. *nodifera* (*noduliferum*) (Grunow in Cleve & Grunow) Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 605):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Pleurosigma spencerii* var. *nodifera* Grun.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Pleurosigma spencerii* var. *nodifera*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (*Pleurosigma spencerii* (Quek.) W. Sm. var. *nodiferum* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Gyrosigma nodiferum* (Grunow) Reimer)

***Gyrosigma obscurum* (W. Smith) J.W. Griffith & Henfrey 1856**, p. 302; pl. 11, fig. 27 [CAS ref. 001935]

Basionym: *Pleurosigma obscurum* W. Smith [CAS ref. 000862]

Distribution (Fig. 606):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma obscurum* (W. Smith) Griffith & Henfrey)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma obscurum* (W. Smith) Griffith & Henfrey)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma obscurum* (W. Smith) Griffith & Henfrey)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Pleurosigma obscurum* W. Smith)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Pleurosigma obscurum* W. Smith)

***Gyrosigma scalproides* (Rabenhorst) Cleve 1894**, p. 118 [CAS ref. 000232]

Basionym: *Pleurosigma scalproides* Rabenhorst 1861b [CAS ref. 011624]

Distribution (Fig. 607):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Pleurosigma scalproides* Rabenh.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Gyrosigma scalproides* (Rabenhorst) Cleve)

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Gyrosigma scalproides* (Rabenhorst) Cleve)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Gyrosigma scalproides* (Rabenhorst) Cleve)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Gyrosigma scalproides* (Rabenhorst) Cleve)

***Gyrosigma spenceri* (*spencerii*) (W. Smith) J.W. Griffith & Henfrey 1856**, p. 303; pl. 11, fig. 17 [CAS ref. 001935]

Basionym: *Pleurosigma spencerii* W. Smith 1852 [CAS ref. 000862]

Synonym: *Gyrosigma kuetzingii* (Grunow) Cleve 1894 [CAS ref. 000232], according to Krammer & Lange-Bertalot 1986, p. 298

Distribution (Fig. 608):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gyrosigma spencerii*)
Municipality: Anadia (District: Aveiro)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gyrosigma spencerii*)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gyrosigma spencerii*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gyrosigma spencerii*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Gyrosigma spencerii*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Gyrosigma spencerii* (W. Smith) Cleve)

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Gyrosigma spencerii* (W. Sm.) Cl.)

Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Gyrosigma spencerii* (W. Sm.) Cl.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Pleurosigma spencerii*)

Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Pleurosigma spencerii*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1984a (as *Pleurosigma spencerii*)

Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Pleurosigma spencerii*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified

Reference: INAG I.P. 2008 (as *Gyrosigma spencerii* (Quekett) Griffith et Henfrey)

***Gyrosigma tenuissimum* (W. Smith) Cleve 1894**, p. 117 [CAS ref. 000232]

Basionym: *Pleurosigma tenuissimum* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 609):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pleurosigma tenuissimum* W. Sm., fossil)

***Gyrosigma* sp.**

Distribution (Fig. 610):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)

Reference: Geraldès & Boavida 2005 (as *Gyrosigma* sp.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Gyrosigma* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (as *Gyrosigma* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gyrosigma* sp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Gyrosigma* sp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Gyrosigma* sp.)

***Halamphora* (Cleve) Levkov 2009, p. 165**
[CAS ref. 013217]

***Halamphora montana* (Krasske) Levkov 2009, p. 207** [CAS ref. 013217]

Basionym: *Amphora montana* Krasske 1932, p. 119; pl. 2, fig. 27 [CAS ref. 000583]

Distribution (Fig. 611):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora montana* Krasske)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora montana* Krasske)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Amphora montana* Krasske)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora montana* Krasske)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora montana* Krasske)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Amphora montana* Rabh.)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Amphora montana* Krasske)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora montana* Krasske)

Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora montana* Krasske)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Amphora montana*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Amphora montana*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Amphora montana* Krasske)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Amphora montana*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Amphora montana* Krasske)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Amphora montana* Krasske)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Amphora montana* Krasske)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Amphora montana* Krasske)

Site: Not Specified

Reference: Gonçalves 2008 (as *Amphora montana* Krasske)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Amphora montana* Krasske)

***Halamphora normanii* (Rabenhorst) Levkov 2009**, p. 208 [CAS ref. 013217]

Basionym: *Amphora normanii* Rabenhorst 1864 [CAS ref. 000775]

Distribution (Fig. 612):

REGION: NORTE

Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Prelada
Reference: Silva 1950b (as *Amphora normanii* Rabh.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Amphora normanii* Rabenhorst)
Site: Not Specified
Reference: Gonçalves 2008 (as *Amphora normanii* Rabenhorst)

***Halamphora oligotraphenta* (Lange-Bertalot) Levkov 2009**, p. 213
[CAS ref. 013217]

Basionym: *Amphora oligotraphenta* Lange-Bertalot in Lange-Bertalot & Metzeltin 1996 [CAS ref. 007048]

Distribution (Fig. 613):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Amphora oligotraphenta* Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Amphora oligotraphenta* Lange-Bertalot)

***Halamphora turgida* (Gregory) Levkov 2009**, p. 240 [CAS ref. 013217]

Basionym: *Amphora turgida* W. Gregory 1857a [CAS ref. 000399]

Distribution (Fig. 614):

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Amphora turgida*)

Halamphora veneta (Kützing) Levkov 2009, p. 242 [CAS ref. 013217]

Basionym: *Amphora veneta* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 615):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Amphora veneta* Kützing)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Amphora veneta* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Amphora veneta* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphora veneta* Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Amphora veneta* Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphora veneta* Kützing); Gil et al. 1989-1990 (as *Amphora veneta*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Amphora veneta* Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora veneta*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Amphora veneta* Kützing); Gil et al. 1989-1990 (as *Amphora veneta*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Amphora veneta* Kützing)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora veneta*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora veneta*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Amphora veneta*)

Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Amphora veneta*); Almeida 1998 (as *Amphora veneta* Kützing)

Site: Tamengos, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Amphora veneta*)
Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Amphora veneta* Koetzing)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Amphora veneta* Kützing)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora veneta* Kützing)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora veneta* Kützing)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Amphora veneta* Kützing); Gil et al. 1989-1990 (as *Amphora veneta*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Amphora veneta* Kützing)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Amphora veneta* Kützing)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Amphora veneta*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Amphora veneta*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Amphora veneta*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora veneta* Kützing)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora veneta* Kützing)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Amphora veneta*); Almeida 1998 (as *Amphora veneta* Kützing)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Amphora veneta*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Amphora veneta* Kützing)
Municipality: Not Specified
Site: Cértima River (Vouga Basin)
Reference: Gil 1993 (as *Amphora veneta* Koetz.)
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Amphora veneta* Kützing)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Amphora veneta*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Amphora veneta* Kützing); Gil et al. 1989-1990
(as *Amphora veneta*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Amphora veneta* Kützing)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Amphora veneta* Kützing)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Amphora veneta* Kützing)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Amphora veneta* Kützing)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Amphora veneta* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Amphora veneta*)
Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro
References: Manguin 1942 (as *Amphora veneta* Kütz.); Bourrelly &
Manguin 1946a (as *Amphora veneta* Kütz.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Amphora veneta* Kütz.); Bourrelly &
Manguin 1946a (as *Amphora veneta* Kütz.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Amphora veneta* Kützing)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Amphora veneta* Kützing)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Amphora veneta* Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Amphora veneta* Kützing)
Site: Not Specified
Reference: Gonçalves 2008 (as *Amphora veneta* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Amphora veneta* Kg.)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Amphora veneta* Kuetz.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Amphora veneta* Kützing)

***Hantzschia Grunow 1877*, p. 174
[CAS ref. 000437]**

Hantzschia abundans Lange-Bertalot 1993, v. 27: p. 75-76; pl. 85, fig. 12-18, pl. 89, fig. 1-6, pl. 90, fig. 1-6, pl. 92, fig. 1 [CAS ref. 008467]

Distribution (Fig. 616):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Hantzschia abundans* Lange-Bertalot)

Hantzschia amphioxys (Ehrenberg) Grunow in Cleve & Grunow 1880, p. 103 [CAS ref. 000241]

Basionym: *Eunotia amphioxys* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Nitzschia amphioxys* (Ehrenberg) W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 617):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 References: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow); Nunes 2007 (as *Hantzschia amphioxys* (Ehrenberg) Grunow in Cleve & Grunow 1880)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)

Subregion: Grande Porto
 Municipality: Porto (District: Porto)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Eunotia amphioxys* Ehrenb.)

Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Tourim, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Nitzschia amphioxys*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Site: Serra do Gerês
 Reference: Silva 1950a (as *Hantzschia amphioxys* (Ehr.) Grun.)

REGION: CENTRO

Subregion: Baixo Mondego
 Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)

Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow); Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Hantzschia amphioxys*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)

- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Hantzschia amphioxys*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Hantzschia amphioxys*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Hantzschia amphioxys* (Ehrenberg) Grunow in Cleve & Grunow 1880)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Hantzschia amphioxys*); Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Hantzschia amphioxys* (Ehr.) Grunow)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)

- Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Hantzschia amphioxys*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Hantzschia amphioxys*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Hantzschia amphioxys*); Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Hantzschia amphioxys*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.)

- Site: Caldeirão
Reference: Santos & Carvalho 2001 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Cubo
Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Diz River
Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Meios
Reference: Santos & Carvalho 2001 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.); Santos & Carvalho 2001 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Nueme
Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Hantzschia amphioxys* (Ehr.) Grun.)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Hantzschia amphioxys*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Hantzschia amphioxys*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Hantzschia amphioxys*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)

Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Hantzschia amphioxys*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Hantzschia amphioxys* (Ehr.) Grunow)

Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Hantzschia amphioxys*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Hantzschia amphioxys*); Ferreira 1986 (as *Hantzschia amphioxys*)
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Hantzschia amphioxys* (Ehr.) Grun.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Hantzschia amphioxys* (Ehr.) Grun.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Hantzschia amphioxys* (Ehr.) Grun.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Hantzschia amphioxys* (Ehr.) Grun.)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Hantzschia amphioxys*)

Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Hantzschia amphioxys*)

Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Hantzschia amphioxys*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified

Reference: Calado 1990 (as *Hantzschia amphioxys* (Ehrenberg) Grunow)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Hantzschia amphioxys*)

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

References: Rodrigues & Moita 1979a (as *Hantzschia amphioxys*);
Rodrigues & Moita 1979b (as *Hantzschia amphioxys*); Fernandes et al.
1987 (as *Hantzschia amphioxys*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Hantzschia amphioxys*); Oliveira 1987 (as
Hantzschia amphioxys (Ehr.) Grun.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Hantzschia amphioxys*);
Oliveira 1996 (as *Hantzschia amphioxys*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Hantzschia amphioxys* (Ehrenberg)
Grunow)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Hantzschia amphioxys*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

References: Oliveira 1984a (as *Hantzschia amphioxys*); Oliveira 1987 (as
Hantzschia amphioxys (Ehr.) Grun.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Hantzschia amphioxys*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Hantzschia amphioxys* (Ehr.) Grun.);
Fernandes et al. 1987 (as *Hantzschia amphioxys*)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Hantzschia amphioxys*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Hantzschia amphioxys*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Hantzschia amphioxys* (Ehr.) Grun.);
 Fernandes et al. 1987 (as *Hantzschia amphioxys*)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Hantzschia amphioxys*)
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Forte, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Hantzschia amphioxys* (Ehrenberg)
 Grunow in Cleve et Grunow)
 Site: Porto de Beja, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Hantzschia amphioxys* (Ehrenberg)
 Grunow in Cleve et Grunow)
 Site: Porto Ferreira, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Hantzschia amphioxys* (Ehrenberg)
 Grunow in Cleve et Grunow)
 Site: Roxo Reservoir, Roxo Stream (Sado Basin)
 Reference: Oliveira 1976 (as *Hantzschia amphioxys* (Ehr.) Grun.)
 Municipality: Ferreira do Alentejo (District: Beja)
 Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Hantzschia amphioxys*)
 Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Hantzschia amphioxys*)
 Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Hantzschia amphioxys*)
 Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Hantzschia amphioxys*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Rocha da Galé, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Hantzschia amphioxys*)

 REGION: ALGARVE
 Subregion: Algarve
 Municipality: Silves (District: Faro)
 Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Hantzschia amphioxys*)

 REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Falca (Terceira Island)
 Reference: Gonçalves 1996 (as *Hantzschia amphyoaxis* (Ehrenberg) Grunow)
 Site: Lagoa da Joaninha
 Reference: Gonçalves 1996 (as *Hantzschia amphyoaxis* (Ehrenberg) Grunow)

Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Hantzschia amphyoaxis* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Hantzschia amphyoaxis* (Ehr.) Grun.)

Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa das Sete Cidades
 Reference: Oliveira 1989 (as *Hantzschia amphioxys*)

Municipality: Povoação
 Site: Ferruginous springs, Furnas
 Reference: Chaves 1908 (as *Nitzschia amphioxys* Sm.)
 Site: Furnas (São Miguel Island)
 Reference: Mölder 1947 (as *Hantzschia amphyoaxis* (Ehr.) Grun.)
 Site: Lagoa das Furnas
 References: Holmboe 1901 (as *Nitzschia amphyoaxis*); Chaves 1908 (as *Nitzschia amphioxys* Sm.); Manguin 1942 (as *Hantzschia amphyoaxis* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Hantzschia amphyoaxis* (Ehr.) Grun.)
 Site: Pico da Vara
 References: Manguin 1942 (as *Hantzschia amphyoaxis* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Hantzschia amphyoaxis* (Ehr.) Grun.)

Municipality: Praia da Vitória (Terceira Island)
 Site: Lagoa do Boi
 Reference: Gonçalves 1996 (as *Hantzschia amphyoaxis* (Ehrenberg) Grunow)

Municipality: Santa Cruz da Graciosa (Graciosa Island)
 Site: Barreiro
 Reference: Azevedo et al. 2005 (as *Hantzschia amphioxys*)
 Site: Fundão, Caldeira
 Reference: Azevedo et al. 2005 (as *Hantzschia amphioxys*)
 Site: Tanque
 Reference: Azevedo et al. 2005 (as *Hantzschia amphioxys*)

Municipality: Vila do Porto (Santa Maria Island)
 Site: Not Specified
 References: Manguin 1942 (as *Hantzschia amphyoaxis* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Hantzschia amphyoaxis* (Ehr.) Grun.)

Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Hantzschia amphyoaxis* (Ehrenberg) Grunow)

Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Hantzschia amphyoxis* (Ehrenberg) Grunow)

Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Hantzschia amphyoxis* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Hantzschia amphyoxis* (Ehr.) Grun.)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Hantzschia amphyoxis* (Ehrenberg) Grunow)

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Hantzschia amphyoxis* (Ehrenberg) Grunow)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Hantzschia amphyoxis* (Ehrenberg) Grunow)

Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Hantzschia amphyoxis* (Ehrenberg) Grunow)

Site: Not Specified
Reference: Gonçalves 2008 (as *Hantzschia amphyoxis* (Ehrenberg) Grunow)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Hantzschia amphiochys* (Ehr.) Grun.)

Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Hantzschia amphyoxis* (Ehr.) Grun.)

Municipality: Porto Santo (Porto Santo Island)
Site: Porto Santo
Reference: Zimmermann 1910-1911 (as *Hantzschia amphiochys* (Ehr.) Grun.)

Municipality: Ribeira Brava (Madeira Island)
Site: Pomar de Ambrosio, Campanário
Reference: Zimmermann 1909a (as *Hantzschia amphyoxis* (Ehr.) Grun.)

Site: Ribeira Brava
Reference: Mölder 1947 (as *Hantzschia amphyoxis* (Ehr.) Grun.)

Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Hantzschia amphyoxis* (Ehr.) Grun.)

Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Hantzschia amphyoxis* (Ehr.) Grun.)

REGION: Not Specified
Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Hantzschia amphioxys* (Ehr.) Grunow in Cleve et Grunow 1880)

***Hantzschia amphioxys* f. *capitata* O. Müller 1909**, p. 34; pl. 2, fig. 26 [CAS ref. 001777]

Distribution (Fig. 618):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Hantzschia amphioxys* (Ehrenberg) Grunow fo. *capitata* O. Müll.); Bourrelly & Manguin 1946a (as *Hantzschia amphioxys* (Ehrenberg) Grunow fo. *capitata* O. Müll.)

***Hantzschia amphioxys* var. *intermedia* Grunow in Van Heurck 1881**, pl. 56, fig. 4 [CAS ref. 001035]

Distribution (Fig. 619):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarpes

Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun. var. *intermedia* Grun.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Hantzschia amphioxys* (Ehr.) Grun. var. *intermedia* Grun.)

***Hantzschia amphioxys* var. *longa* C. Zimmermann 1914** [CAS ref. -]

Distribution (Fig. 620):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Vilarinho

Reference: Zimmermann 1914 (as *Hantzschia amphioxys* (Ehr.) Grun. var. *longa*)

***Hantzschia amphioxys* var. *major* Grunow in Van Heurck 1881**, (p. 169); pl. 56, fig. 3, 11 [CAS ref. 001035]

Distribution (Fig. 621):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Hantzschia amphioxys* (Ehr.) Grun. var. *major* Grun.); Bourrelly & Manguin 1946a (as *Hantzschia amphioxys* (Ehr.) Grun. var. *major* Grun.)

***Hantzschia amphioxys* var. *vivax* Grunow in Cleve & Grunow 1880**, p. 103 [CAS ref. 000241]

Distribution (Fig. 622):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Hantzschia amphioxys* (Ehr.) Grun. var. *vivax* (Hantz.) Grun.); Bourrelly & Manguin 1946a (as *Hantzschia amphioxys* (Ehr.) Grun. var. *vivax* (Hantz.) Grun.)

***Hantzschia calcifuga* E. Reichardt & Lange-Bertalot in Werum & Lange-Bertalot 2004**, p. 163-164; pl. 96, fig. 1-6, pl. 97, fig. 1-4 [CAS ref. 012889]

Distribution (Fig. 623):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Hantzschia calcifuga* Reichardt & Lange-Bertalot)

***Hantzschia elongata* (Hantzsch) Grunow in Cleve & Grunow 1880**, p. 104 [CAS ref. 000241]

Basionym: *Nitzschia elongata* Hassall 1845 [CAS ref. 000469]

Distribution (Fig. 624):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Hantzschia elongata* (Hantzsch) Grun.)

***Hantzschia virgata* (Roper) Grunow in Cleve & Grunow 1880, p. 104 [CAS ref. 000241]**

Basionym: *Nitzschia virgata* Roper 1858 [CAS ref. 000794]

Distribution (Fig. 625):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Prelada

Reference: Silva 1950b (as *Hantzschia virgata* (Roper) Grun.)

***Hantzschia* sp.**

Distribution (Fig. 626):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Hantzschia* sp.)

***Haslea* Simonsen 1974, p. 46
[CAS ref. 003158]**

***Haslea ostrearia* (Gaillon) Simonsen 1974, p. 47 [CAS ref. 003158]**

Basionym: *Vibrio ostrearius* Gaillon 1820 [CAS ref. 002243]

Nomenclatural synonym: *Navicula fusiformis* var. *ostrearia* (Gaillon) Grunow 1877 [CAS ref. 000437]

Distribution (Fig. 627):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Navicula fusiformis* var. *ostrearia* (Gaill.) Grun., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Navicula fusiformis* Grun. var. *ostrearia* (Gaill.) Grun., fossil)

***Haslea spicula* (Hickie) Bukhtiyarova 1995**, v. 5(4): p. 422 [CAS ref. 008000]

Basionym: *Stauroneis spicula* Hickie 1874 [CAS ref. 002262]

Nomenclatural synonym: *Navicula spicula* (Hickie) Cleve 1894 [CAS ref. 000232]

Distribution:

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Navicula spicula* Cleve)

***Hippodonta* Lange-Bertalot, Witkowski & Metzeltin 1996b**, p. 249 [CAS ref. 007049]

***Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski 1996b**, p. 254; pl. 2, fig. 5, pl. 3, fig. 1, pl. 4, fig. 23 [CAS ref. 007049]

Basionym: *Navicula capitata* Ehrenberg 1838 [CAS ref. 000288]

Nomenclatural synonym: *Navicula hungarica* var. *capitata* (Ehrenberg) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 628):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Navicula capitata* Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1909b (as *Navicula capitata* Ehr.)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula capitata* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Vagueira, Canal de Mira
 Reference: Mendes et al. 2009 (as *Navicula capitata*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica* v. *capitata*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehrenberg)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (upstream of Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Navicula hungarica* Grunow var. *capitata* (Ehrenberg) Cleve)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Navicula hungarica* Grunow var. *capitata* (Ehrenberg) Cleve); Almeida & Gil 2001 (as *Navicula capitata* Ehrenberg)

REGION: ALENTEJO

Subregion: Alentejo Central
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Oliveira & Monteiro 1995 (as *Navicula hungarica* var. *capitata*); Oliveira 1996 (as *Navicula hungarica* var. *capitata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação
 Site: Lagoa das Furnas
 Reference: Gonçalves 1997 (as *Navicula capitata*)
 Municipality: Not Specified
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)

Site: Not Specified

Reference: Gonçalves 2008 (as *Hippodonta capitata* (Ehrenberg) Lange-Bertalot, Metzeltin & Witkowski)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula capitata* Ehrenberg (=Hippodonta))

***Hippodonta hungarica* (Grunow) Lange-Bertalot, Metzeltin & Witkowski 1996b**, p. 259; pl. 1, fig. 22-26 [CAS ref. 007049]

Basionym: *Navicula hungarica* Grunow 1860 [CAS ref. 000427]

Nomenclatural synonym: *Navicula capitata* var. *hungarica* (Grunow) Ross 1947 [CAS ref. 000796]

Distribution (Fig. 629):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Navicula capitata* var. *hungarica* (Grunow) Ross)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula capitata* var. *hungarica* (Grunow) Ross)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula hungarica* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula hungarica* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

- Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula hungarica*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula hungarica*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula hungarica* Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula hungarica* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula hungarica* Grunow); Gil et al. 1989-1990 (as *Navicula hungarica*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula hungarica*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula hungarica*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula hungarica*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula hungarica*); Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula hungarica*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula hungarica* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula hungarica* Grunow); Gil et al. 1989-1990 (as *Navicula hungarica*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)

- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula hungarica*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula hungarica* Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula hungarica* Grunow)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula hungarica* Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula hungarica* Grunow)
- Subregion: Not Specified
- Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Navicula hungarica* Grunow); Gil et al. 1991 (as *Navicula hungarica*); Almeida & Gil 2001 (as *Navicula capitata* Ehr. var. *hungarica* (Grunow) Ross)
- REGION: AUTONOMOUS REGION OF AZORES
- Municipality: Not Specified
 Site: Santa Maria Island
 Reference: Gonçalves et al. 2010 (as *Hippodonta hungarica* (Grunow) Lange-Bertalot, Metzeltin & Witkowski)

***Hyalodiscus* Ehrenberg 1845d, p. 71**

[CAS ref. 000955]

***Hyalodiscus stelliger* J.W. Bailey 1854**, p. 10 [CAS ref. 000122]

Distribution (Fig. 630):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Hyalodiscus stelliger* Bail.)

***Hyalodiscus subtilis* J.W. Bailey 1854**, p. 10; fig. 12 [CAS ref. 000122]

Distribution (Fig. 631):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Hyalodiscus subtilis* Bail.)

Karayevia Round & Bukhtiyarova ex Round 1998, p. 181
[CAS ref. 007063]

***Karayevia amoena* (Hustedt) Bukhtiyarova 2006**, p. 89 [CAS ref. 013437]

Basionym: *Achnanthes amoena* Hustedt 1952b [CAS ref. 000524]

Nomenclatural synonym: *Kolbesia amoena* (Hustedt) Kingston 2000 [CAS ref. 009393]

Distribution (Fig. 632)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Kolbesia amoena* (Hustedt) Kingston)
Site: Not Specified
Reference: Gonçalves 2008 (as *Kolbesia amoena* (Hustedt) Kingston)

***Karayevia bottnica* (Cleve) Lange-Bertalot in Krammer & Lange-Bertalot 2004, p. 434 [CAS ref. 013110]**

Basionym: *Achnanthes clevei* var. *bottnica* Cleve 1891 [CAS ref. 000229]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes clevei* Grunow var. *bottnica* Cleve)

***Karayevia clevei* (Grunow) Bukhtiyarova 2006, p. 88, fig. 1, 5-8**

Basionym: *Achnanthes clevei* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 633):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes clevei* Grunow)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes clevei* Grunow)
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Karayevia clevei* (Grun. in Cl. & Grun.) Round & Bukhtiyarova)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Achnanthes clevei* Grunow)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes clevei clevei*)

Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes clevei clevei*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Karayevia clevei* (Grunow) Round & Bukhtiyarova)

Site: Not Specified

Reference: Gonçalves 2008 (as *Karayevia clevei* (Grunow) Round & Bukhtiyarova)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes clevei* Grunow var. *clevei* (= *Karayevia*))

***Karayevia kolbei* (Hustedt) Bukhtiyarova 2006**, p. 89; pl.3, fig. 18-21 [CAS ref. 013212]

Basionym: *Achnanthes kolbei* Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 634):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Achnanthes kolbei* Hust.)

***Karayevia laterostrata* (Hustedt) Bukhtiyarova 2006**, p. 89; fig. 9-12

Basionym: *Achnanthes laterostrata* Hustedt 1933 [CAS ref. 000507]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes laterostrata* Hustedt)

***Karayevia oblongella* (Østrup) Aboal in Aboal et al. 2003**, p. 159
[CAS ref. 012666]

Basionym: *Achnanthes oblongella* Østrup 1902 [CAS ref. 005151]

Nomenclatural synonym: *Psammothidium oblongellum* (Oestrup) Van de Vijver in
Van de Vijver, Frenot & Beyens 2002 [CAS ref. 012899]

Synonym: *Achnanthes saxonica* Krasske in Hustedt 1933 [CAS ref. 000507],
according to Krammer & Lange-Bertalot 1991b, p. 29

Distribution (Fig. 635):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Achnanthes oblongella* Oestrup); Ferreira da
Silva et al. 2009 (as *Achnanthes oblongella* Östrup)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes oblongella* Oestrup)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Psammothidium oblongellum*
(Oestrup) Van de Vijver)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Achnanthes oblongella* Östrup); Nunes
2007 (as *Achnanthes oblongella* Oestrup)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes oblongella* Oestrup)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes oblongella* Öestrup)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes oblongella* Öestrup)

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes oblongella* Öestrup)

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Achnanthes oblongella* Oestrup); Ferreira da Silva et al. 2009 (as *Achnanthes oblongella* Östrup)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes oblongella* Oestrup)
- Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)
- Site: Ribeira de Fráguas, Coval da M6 Mine, Coval da M6 Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes oblongella* Oestrup)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Achnanthes oblongella* Oestrup); Nunes 2007 (as *Achnanthes oblongella* Oestrup)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Achnanthes oblongella* Oestrup); Nunes 2007 (as *Achnanthes oblongella* Oestrup)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 References: Nunes 2007 (as *Achnanthes oblongella* Oestrup); Nunes et al. 2003 (as *Achnanthes oblongella* Oestrup)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes oblongella* Oestrup)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
 References: Nunes et al. 2003 (as *Achnanthes oblongella* Oestrup); Nunes 2007 (as *Achnanthes oblongella* Oestrup); Ferreira da Silva et al. 2009 (as *Achnanthes oblongella* Östrup)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes oblongella* Oestrup)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes oblongella* Östrup)

Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes oblongella* Oestrup); Nunes 2007 (as *Achnanthes oblongella* Oestrup)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes oblongella* Oestrup)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
References: Nunes 2007 (as *Achnanthes oblongella* Oestrup); Nunes 2007 *Achnanthes oblongella* Oestrup, teratological form)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes oblongella* Oestrup); Nunes 2007 (as *Achnanthes oblongella* Oestrup)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes oblongella* Oestrup); Nunes 2007 (as *Achnanthes oblongella* Oestrup)

Municipality: Not Specified
Site: Filvida basin
Reference: Nunes et al. 2002 (as *Achnanthes oblongella* Oestrup)

Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Achnanthes oblongella* Östrup)

Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes oblongella* Öestrup)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Achnanthes oblongella* Öestrup)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Psammothidium oblongellum*
(Oestrup) Van de Vijver)

REGION: Not Specified

Municipality: Not Specified
Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Achnanthes oblongella* Oestrup)
Site: North-South Transition Rivers and Mountain Rivers in the South
Reference: Morais et al. 2009 (as *Achnanthes oblongella* Oestrup)
Site: Rivers in the South
Reference: Morais et al. 2009 (as *Achnanthes oblongella* Oestrup)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes oblongella* Oestrup)

***Karayevia ploenensis* (Hustedt) Bukhtiyarova 2006**, p. 90 [CAS ref. 013212]

Basionym: *Achnanthes ploenensis* Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 636):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes ploenensis* Hustedt)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Achnanthes ploenensis*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Achnanthes ploenensis*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Achnanthes plönensis*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes ploenensis* Hustedt var. *ploenensis* (= *Kolbesia*))

***Karayevia suchlandtii* (Hustedt) Bukhtiyarova 2006, p. 92**

Basionym: *Achnanthes suchlandtii* Hustedt 1933 [CAS ref. 000507]

Distribution (Fig. 637):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt); Gil et al. 1989-1990 (as *Achnanthes suchlandtii*)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes suchlandtii*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes suchlandtii* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes suchlandtii* Hustedt); Gil et al. 1989-1990 (as *Achnanthes suchlandtii*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes suchlandtii* Hustedt)

Kobyasiella Lange-Bertalot 1999c,
p. 272 [CAS ref. 009347]

***Kobyasiella subtilissima* (Cleve) Lange-Bertalot 1999c, p. 268**
[CAS ref. 009347]

Basionym: *Navicula subtilissima* Cleve 1891 [CAS ref. 000229]

Distribution (Fig. 638):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)

- Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Navicula subtilissima* P. Cleve); Gil et al. 1989-1990 (as *Navicula subtilissima*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula subtilissima* P. Cleve); Gil et al. 1989-1990 (as *Navicula subtilissima*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula subtilissima* Cleve)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula subtilissima* P. Cleve); Gil et al. 1989-1990 (as *Navicula subtilissima*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula subtilissima* P. Cleve); Gil et al. 1989-1990 (as *Navicula subtilissima*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula subtilissima*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula subtilissima* P. Cleve)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: Gil et al. 1991 (as *Navicula subtilissima*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula subtilissima* Cleve)

Municipality: Calheta (São Jorge Island)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Navicula subtilissima* Cleve)

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Navicula subtilissima* Cleve)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Krieger 1931 (as *Navicula subtilissima* Cleve)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Navicula subtilissima* Cleve)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Navicula subtilissima* Cleve)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve); Mölder 1947 (as *Navicula subtilissima* Cleve)

Site: Pico Verde

References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Navicula subtilissima* Cleve); Bourrelly & Manguin 1946a (as *Navicula subtilissima* Cleve)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)
Site: Terceira Island
References: Johansson 1977 (as *Navicula subtilissima* Cleve); Gonçalves et al. 2010 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Kobayasiella subtilissima* (Cleve) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Navicula subtilissima* Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula subtilissima* Cleve)

***Lauderia* Cleve 1873, p. 8**
[CAS ref. 001797]

Lauderia borealis Gran 1900, p. 110; pl. 9, fig. 5-9 [CAS ref. 001228]

Distribution (Fig. 639):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Lauderia borealis*)

***Lemnicola* Round & Basson 1997, p. 77**
[CAS ref. 006872]

Lemnicola hungarica (Grunow) Round & Basson 1997, p. 77; fig. 4-7, 26-31 [CAS ref. 006872]

Basionym: *Achnanthidium hungaricum* Grunow 1863 [CAS ref. 000429]

Nomenclatural synonym: *Achnanthes hungarica* (Grunow) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 640):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes hungarica* Grunow in Cleve & Grun.)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Achnanthes hungarica* Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: Abrantes et al. 2006 (as *Achnanthes hungarica*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

- Reference: Santos et al. 2002 (as *Achnanthes hungarica* (Grunow) Grunow)
- Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Achnanthes hungarica* (Grunow) Grunow)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes hungarica* Grunow); Gil et al. 1989-1990 (as *Achnanthes hungarica*)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Achnanthes hungarica*); Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Achnanthes hungarica* Grunow)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)

- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Achnanthes hungarica*); Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes hungarica*)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes hungarica* Grunow)
- Municipality: Not Specified
 Site: Cértima River (Vouga Basin)
 Reference: Gil 1993 (as *Achnanthes hungarica* Grunow)
- Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Achnanthes hungarica* Grunow)
- Site: Vouga Basin
 Reference: Almeida & Gil 2000 (as *Achnanthes hungarica* Grunow)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes hungarica* (Grunow)
Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes hungarica* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Achnanthes hungarica* Grunow); Gil et al.
1991 (as *Achnanthes hungarica*); Almeida & Gil 2001 (as *Achnanthes
hungarica* Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes hungarica* Grunow in Cleve
et Grun.)

***Leptocylindrus* Cleve in J.B. Petersen 1889, p. 54**
[CAS ref. 001131]

***Leptocylindrus minimus* Gran 1915, p. 72; fig. 5 [CAS ref. 002029]**

Distribution (Fig. 641):

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Leptocylindrus minimus* (?))

***Luticola* D.G. Mann in Round, Crawford & Mann 1990,**
p. 670 [CAS ref. 003245]

***Luticola cohnii* (Hilse) D.G. Mann in Round, Crawford & Mann**
1990, p. 670 [CAS ref. 003245]

Basionym: *Stauroneis cohnii* Hilse in Rabenhorst 1860a [CAS ref. 011620]

Nomenclatural synonym: *Navicula cohnii* (Hilse) Lange-Bertalot in Krammer &
Lange-Bertalot 1985 [CAS ref. 006263]

Distribution (Fig. 642):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

References: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow); Gil et al.
1989-1990 (as *Navicula cohnii*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow); Gil et al. 1989-1990 (as *Navicula cohnii*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Navicula cohnii* (Hilse) Grunow)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cohnii*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cohnii*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cohnii* (Hilse) Lange-Bertalot)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula cohnii* (Hilse) Lange-Bertalot)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula cohnii* (Hilse) Grunow)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola cohnii* (Hilse) D.G. Mann)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola cohnii* (Hilse) D.G. Mann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Luticola cohnii* (Hilse) D.G. Mann)

***Luticola goeppertiana* (Bleisch in Rabenhorst) D.G. Mann in Round, Crawford & Mann 1990, p. 670 [CAS ref. 003245]**

Basionym: *Navicula mutica* var. *goeppertiana* (Bleisch in Rabenhorst) Grunow in Van Heurck 1880 [CAS ref. 000895]

Nomenclatural synonym: *Navicula goeppertiana* (Bleisch in Rabenhorst) H.L. Smith 1876-1888 [CAS ref. 000858]

Distribution (Fig. 643):

REGION: NORTE

Subregion: Cávado

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula goeppertiana*)

Municipality: Not Specified

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula goeppertiana*)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Luticola goeppertiana* (Bleisch) H.L. Smith)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Navicula goeppertiana*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula goeppertiana* (Bleisch) H. L. Smith)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Luticola goeppertiana* (Bleisch in Rabenhorst) D. G. Mann)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Luticola goeppertiana* (Bleisch in Rabenhorst) D. G. Mann)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

References: Nunes 2007 (as *Luticola goeppertiana* (Bleisch in Rabenhorst) D. G. Mann); Ferreira da Silva et al. 2009 (as *Luticola goeppertiana* (Bleisch in Rabenhorst) D. G. Mann)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula goeppertiana* (Bleisch) H. L. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Navicula goeppertiana* (Bleisch) Grun.)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula goeppertiana* (Bleisch) H. L. Smith)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula goeppertiana* (Bleisch) H. L. Smith)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Luticola goeppertiana* (Bleisch in Rabenhorst) D. G. Mann)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula goeppertiana* (Bleisch) Grunow)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula goeppertiana*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula goeppertiana*)
- Subregion: Not Specified
- Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Navicula goeppertiana* (Bleisch) Grunow)
- REGION: AUTONOMOUS REGION OF AZORES**
- Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Luticola goeppertiana* (Bleisch) D.G. Mann)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Luticola goeppertiana* (Bleisch) D.G. Mann)
 Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Luticola goeppertiana* (Bleisch) D.G. Mann)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Luticola goeppertiana* (Bleisch) D.G. Mann)
Site: São Miguel Island (middle and downstream sites)
Reference: Gonçalves et al. 2008 (as *Luticola goeppertiana*)
Site: Not Specified
Reference: Gonçalves 2008 (as *Luticola goeppertiana* (Bleisch in Rabenhorst) D.G. Mann)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus River (Tagus Basin)
Reference: Sabater et al. 2009 (as *Navicula goeppertiana*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula goeppertiana* (Bleisch) H. L. Smith (*Luticola*))

***Luticola lagerheimii* (Cleve) D.G. Mann in Round, Crawford & Mann 1990, p. 670 [CAS ref. 003245]**

Basionym: *Navicula lagerheimii* Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 644):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Navicula lagerheimi* Cleve); Bourrelly & Manguin 1946a (as *Navicula lagerheimi* Cleve)
Municipality: Not Specified
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Luticola lagerheimii* (Cleve) D.G. Mann)
Site: Not Specified
Reference: Bourrelly & Manguin 1946b (as *Navicula lagerheimi*)

***Luticola mutica* (Kützing) D.G. Mann in Round, Crawford & Mann 1990, p. 670 [CAS ref. 003245]**

Basionym: *Navicula mutica* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 645):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Luticola mutica* (Kützing) D.G. Mann)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula mutica* Kützing)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Navicula mutica*)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula mutica* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula mutica*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula mutica* Kützing); Gil et al. 1989-1990 (as *Navicula mutica*)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Luticola mutica* (Kützing) D. G. Mann)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Luticola mutica* (Kützing) D. G. Mann)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Luticola mutica* (Kützing) D. G. Mann)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Luticola mutica* (Kützing) D. G. Mann)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 References: Nunes 2007 (as *Luticola mutica* (Kützing) D. G. Mann);
 Ferreira da Silva et al. 2009 (as *Luticola mutica* (Kützing) D. G. Mann)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula mutica* Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mutica* Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula mutica* Kützing)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula mutica* Kützing)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula mutica*)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Luticola mutica* (Kützing) D. G. Mann)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Luticola mutica* (Kützing) D. G. Mann)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula mutica* Kützing); Gil et al. 1989-1990
(as *Navicula mutica*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula mutica* Kützing)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula mutica* Kützing); Gil et al. 1989-1990
(as *Navicula mutica*)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Navicula mutica*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Navicula mutica* Kützing); Gil et al. 1991
(as *Navicula mutica*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola mutica* (Kützing) D.G. Mann)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola mutica* (Kützing) D.G. Mann)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola mutica* (Kützing) D.G. Mann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Navicula mutica* Kützing var. *mutica*
Krammer & Lange-Bertalot)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Navicula mutica* Kütz.); Bourrelly &
Manguin 1946a (as *Navicula mutica* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara
References: Manguin 1942 (as *Navicula mutica* Kütz.); Bourrelly & Manguin 1946a (as *Navicula mutica* Kütz.)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Navicula mutica* Kützing var. *mutica* Krammer & Lange-Bertalot)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula mutica*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Luticola mutica* (Kützing) D. G. Mann)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Luticola mutica* (Kützing) D. G. Mann)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Luticola mutica* (Kützing) D. G. Mann)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Luticola mutica* (Kützing) D. G. Mann)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Luticola mutica* (Kützing) D. G. Mann)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Luticola mutica* (Kützing) D. G. Mann)
Site: Not Specified
Reference: Gonçalves 2008 (as *Luticola mutica* (Kützing) D.G. Mann)

***Luticola nivalis* (Ehrenberg) D.G. Mann in Round, Crawford & Mann 1990, p. 671 [CAS ref. 003245]**

Basionym: *Navicula nivalis* Ehrenberg 1853 [CAS ref. 001189]

Distribution (Fig. 646):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula nivalis* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula nivalis* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

References: Johansson 1977 (as *Navicula nivalis* Ehr.); Gonçalves et al. 2010 (as *Luticola nivalis* (Ehrenberg) D. G. Mann)

***Luticola paramutica* (W. Bock) D.G. Mann in Round, Crawford & Mann 1990, p. 671 [CAS ref. 003245]**

Basionym: *Navicula paramutica* W. Bock 1963 [CAS ref. 001100]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Luticola* cf. *paramutica* (Bock) D.G. Mann)

***Luticola undulata* (Hilse in Rabenhorst) D.G. Mann in Round, Crawford & Mann 1990, p. 671 [CAS ref. 003245]**

Basionym: *Stauroneis undulata* Hilse 1860 [CAS ref. 002263]

Nomenclatural synonym: *Navicula mutica* var. *undulata* (Hilse) Grunow 1880 [CAS ref. 009613]

Distribution (Fig. 647):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Pomar de Ambrosio, Campanário

Reference: Zimmermann 1909a (as *Navicula mutica* Kuetz. var. *undulata* (Hilse) Cl. et Gr.)

***Luticola ventricosa* (Kützing) D.G. Mann in Round, Crawford & Mann 1990, p. 671 [CAS ref. 003245]**

Basionym: *Stauroneis ventricosa* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Navicula mutica* var. *ventricosa* (Kützing) Cleve & Grunow 1880 [CAS ref. 000241]

Synonym: *Navicula neoventricosa* Hustedt 1964 [CAS ref. 002279], according to Krammer & Lange-Bertalot 1986, p. 150

Distribution (Fig. 648):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: Abrantes et al. 2006 (as *Luticola ventricosa*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula mutica ventricosa*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula mutica ventricosa*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola ventricosa* (Kützing) D.G. Mann)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola ventricosa* (Kützing) D.G. Mann)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Luticola ventricosa* (Kützing) D.G. Mann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Luticola ventricosa* (Kützing) D.G. Mann)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula mutica* Kützing var. *ventricosa* (Kütz.) Cleve et Grun.)

***Martyana* Round in Round, Crawford & Mann 1990,**
p. 673 [CAS ref. 003245]

***Martyana atomus* (Hustedt) Snoeijns in Snoeijns, G. Hällfors & Leskinen 1991,** p. 166; fig. 1-18, 23-25 [CAS ref. 008831]

Basionym: *Fragilaria atomus* Hustedt 1931 [CAS ref. 000505]

Distribution (Fig. 649):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Fragilaria atomus* Hustedt)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Fragilaria atomus* Hustedt)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Fragilaria atomus* Hustedt)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Martyana atomus* (Hustedt) Snoeijns)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Martyana atomus* (Hustedt) Snoeijns)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Martyana atomus* (Hustedt) Snoeijns)

***Martyana schulzii* (Brockmann) Snoeijns in Snoeijns, G. Hällfors & Leskinen 1991,** p. 166; fig. 19-22, 26-27 [CAS ref. 008831]

Basionym: *Fragilaria schulzii* Brockmann 1950 [CAS ref. 001114]

Distribution (Fig. 650):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Martyana schulzii* (Brockmann) Snoeijns)

***Mastogloia* Thwaites in Smith 1856, p. 63**

[CAS ref. 001007]

***Mastogloia baltica* Grunow in Van Heurck 1880**, pl. 4, fig. 24 [CAS ref. 000895]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Mastogloia baltica* Grunow)

***Mastogloia elliptica* (C. Agardh) Cleve in Schmidt 1893**, pl. 185, fig. 24-27 [CAS ref. 012473]

Basionym: *Frustulia elliptica* C. Agardh 1824 [CAS ref. 000102]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Mastogloia elliptica* Agardh)

***Mastogloia elliptica* var. *dansei* (Thwaites) Cleve 1895**, p. 152 [CAS ref. 000949]

Basionym: *Dickieia danseii* (*dansei*) Thwaites 1848 [CAS ref. 000886]

Nomenclatural synonym: *Mastogloia dansei* (Thwaites) W. Smith 1856 [CAS ref. 001007]

Distribution (Fig. 651):

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Mastogloia dansei*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Mastogloia elliptica* Agardh v. *dansei* (Thwaites) Grunow)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Mastogloia elliptica* v. *dansei*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Mastogloia elliptica* Agardh v. *dansei* (Thwaites) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Mastogloia elliptica* Agardh v. *dansei* (Thwaites) Grunow)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Mastogloia elliptica* Agardh v. *dansei* (Thwaites) Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Mastogloia elliptica* Ag. v. *dansei* (Thwaites) Grunow)

***Mastogloia exigua* F.W. Lewis 1861**, p. 65; pl. 2, fig. 5 [CAS ref. 000609]

Basionym: *Dickieia danseii* (*dansei*) Thwaites 1848 [CAS ref. 000886]

Nomenclatural synonym: *Mastogloia dansei* (Thwaites) W. Smith 1856 [CAS ref. 001007]

Distribution (Fig. 652):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Mastogloia exigua* Lew.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Mastogloia exigua* F.W. Lewis)

***Mastogloia lacustris* (Grunow) Van Heurck 1880**, pl. 4, fig. 14
[CAS ref. 000895]

Basionym: *Mastogloia smithii* var. *lacustris* Grunow 1878 [CAS ref. 000439]

Distribution (Fig. 653):

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Mastogloia smithii* Thwaites var. *lacustris* Grunow)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Mastogloia lacustris*)

***Mastogloia smithii* Thwaites in lit. ex W. Smith 1856**, p. 65; pl. 54,
fig. 341 [CAS ref. 001007]

Distribution (Fig. 654):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Mastogloia smithii* Thwaites ex W. Smith)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Mastogloia smithii* Thwaites)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Mastogloia smithii* Thwaites)

REGION: ALENTEJO

Subregion: Not Specified

Municipality: Not Specified
Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)
Reference: Gerhardt et al. 2008 (as *Mastogloia smithii* Thwaites)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Mastogloia smithii* Thw.)

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Mastogloia smithii* Thwaites ex W. Smith)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Zimmermann 1906 (as *Mastogloia smithii* Thwait.)

***Mastogloia smithii* var. *amphicephala* Grunow in Van Heurck 1880, pl. 4, fig. 27 [CAS ref. 000895]**

Distribution:

REGION: CENTRO
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Mastogloia smithii* Thwaites var. *amphicephala* Grunow)

***Mastogloia* sp.**

Distribution (Fig. 655):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Mastogloia* sp.)

REGION: CENTRO
Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Mastogloia* sp.)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Mastogloia* sp.)

***Mayamaea Lange-Bertalot 1997*, p. 71**
[CAS ref. 007047]

***Mayamaea agrestis* (Hustedt) Lange-Bertalot 2001**, p. 134 [CAS ref. 009456]

Basionym: *Navicula agrestis* Hustedt 1937a [CAS ref. 001012]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Almeida 1998 (as *Navicula agrestis* Hustedt); INAG I.P. 2008 (as *Navicula agrestis* Hustedt)

***Mayamaea atomus* (Kützing) Lange-Bertalot 1997**, p. 72 [CAS ref. 007047]

Basionym: *Amphora atomus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Navicula atomus* (Kützing) Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 656):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)
Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow);
Nunes 2007 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes et al. 2002 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula atomus* (Kützing) Grunow)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

References: Nunes et al. 2003 (as *Mayamaea atomus* (Kützing) Lange-Bertalot); Nunes 2007 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula atomus* (Kuetz.) Grun.)
Site: Vela
Reference: Carvalho 1913 (as *Navicula atomus* (Kuetz.) Grun.)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Navicula atomus*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Navicula atomus* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula atomus*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Mayamaea atomus* (Kützing) Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula atomus* (Kütz.) Grunow var. *atomus*)

***Mayamaea excelsa* (Krasske) Lange-Bertalot 1997**, p. 72 [CAS ref. 007047]

Basionym: *Navicula excelsa* Krasske 1925 [CAS ref. 000580]

Distribution (Fig. 657):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula excelsa* Krasske)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula excelsa* Krasske)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula excelsa* Krasske)

Subregion: Dão-Lafões

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula excelsa* Krasske)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Mayamaea excelsa* (Krasske) Lange-Bertalot, fossil)

***Mayamaea fossalis* (Krasske) Lange-Bertalot 1997**, p. 72 [CAS ref. 007047]

Basionym: *Navicula fossalis* Krasske 1929 [CAS ref. 000582]

Distribution (Fig. 658)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Mayamaea fossalis* (Krasske) Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Mayamaea fossalis* (Krasske) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Mayamaea fossalis* (Krasske) Lange-Bertalot)

***Mayamaea permitis* (Hustedt) Bruder & Medlin 2008**, p. 327 [CAS ref. 013140]

Basionym: *Navicula permitis* Hustedt 1945 [CAS ref. 000518]

Nomenclatural synonyms: *Navicula atomus* var. *permitis* (Hustedt) Lange-Bertalot in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]
Mayamaea atomus var. *permitis* (Hustedt) Lange-Bertalot 1997 [CAS ref. 007047]

Distribution (Fig. 659):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Mayamaea atomus* (Kützing) L.-Bert. var. *permitis* (Hustedt) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)

- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula permitis* Hustedt)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Mayamaea atomus* (Kützing) L.-Bert. var. *permitis* (Hustedt) Lange-Bertalot)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Mayamaea atomus* (Kützing) L.-Bert. var. *permitis* (Hustedt) Lange-Bertalot)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes 2007 (as *Mayamaea atomus* (Kützing) L.-Bert. var. *permitis* (Hustedt) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Mayamaea atomus* var. *permitis* (Hustedt) Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes 2007 (as *Mayamaea atomus* (Kützing) L.-Bert. var. *permitis* (Hustedt) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Mayamaea atomus* var. *permitis* (Hustedt) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula permitis*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula permitis* Hustedt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula permitis* Hustedt)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula permitis*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Mayamaea atomus* (Kützing) L.-Bert. var. *permitis* (Hustedt) Lange-Bertalot)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Mayamaea atomus* (Kützing) L.-Bert. var. *permitis* (Hustedt) Lange-Bertalot)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula permitis* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula permitis* Hustedt)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula permitis* Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula permitis* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula permitis* Hustedt); Gil et al. 1989-1990
(as *Navicula permitis*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Mayamaea atomus* var. *permitis* (Hustedt)
Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula atomus* var. *permitis*)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Navicula atomus* var. *permitis*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Mayamaea permitis* (Hustedt)
Bruder & Medlin)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Mayamaea permitis* (Hustedt)
Bruder & Medlin)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Mayamaea permitis* (Hustedt)
Bruder & Medlin)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Mayamaea permitis* (Hustedt)
Bruder & Medlin)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Mayamaea permitis* (Hustedt)
Bruder & Medlin)
Site: São Miguel Island (middle and downstream sites)
Reference: Gonçalves et al. 2008 (as *Mayamaea atomus* var. *permitis*)
Site: Not Specified
Reference: Gonçalves 2008 (as *Mayamaea atomus* var. *permitis* (Hustedt)
Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula atomus* (Kütz.) Grunow var. *permitis* (Hustedt) Lange-Bertalot (*Mayamaea*))

***Melosira* C. Agardh 1824**, p. XIV, 8
[CAS ref. 000102]

***Melosira cataractarum* Hustedt 1937b**, p. 142; pl. 9, fig. 6, 7 [CAS ref. 001011]

Distribution (Fig. 660):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Melosira cataractarum* Hustedt)

***Melosira cataractarum* f. *laevis* Manguin 1942**, p. 119; pl. 1, fig. 1
[CAS ref. 000623]

Distribution (Fig. 661):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Ribeira Quente
References: Manguin 1942 (as *Melosira cataractarum* Hust. f. *laevis*);
Bourrelly & Manguin 1946a (as *Melosira cataractarum* Hust. f. *laevis*)
Municipality: Not Specified
Site: Lagoa das Furnas
References: Manguin 1942 (as *Melosira cataractarum* Hust. f. *laevis*);
Bourrelly & Manguin 1946b (as *Melosira cataractarum* f. *laevis*)

***Melosira concatenata* (Kützing) Rabenhorst 1864**, p. 38 [CAS ref. 000775]

Basionym: *Melosira salina* var. *concatenata* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 662):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Zimmermann 1914 (as *Melosira concatenata* Kuetz.)

***Melosira dickiei* (Thwaites) Kützing 1849**, p. 889 [CAS ref. 000596]

Basionym: *Orthoseira dickieii* (*dickieyii*) Thwaites 1848 [CAS ref. 000886]

Distribution (Fig. 663):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Melosira dickiei*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Melosira dickiei*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Melosira dickiei* (Thw.) Kütz.); Bourrelly & Manguin 1946a (as *Melosira dickiei* (Thw.) Kütz.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

Reference: Manguin 1942 (as *Melosira dickiei* (Thw.) Kütz.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Melosira dickiei* (Thwaites) Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Melosira dickiei* (Thwaites) Kützing)

***Melosira italica* var. *perminuta* Cleve-Euler 1951**, p. 28; fig. 16 r-u [CAS ref. 000255]

Distribution:

REGION: NORTE

Subregion: Not Specified
Municipality: Not Specified
Site: Ave River (Ave Basin)
Reference: Cerqueira da Silva 1991 (as *Melosira italica* var. *perminuta*)

***Melosira jurgensii* C. Agardh [CAS ref. 000102]**

Synonym: *Melosira lineata* (Dillwyn) C. Agardh 1824 [CAS ref. 000102], according to Krammer & Lange-Bertalot 1991a, p. 10

Distribution (Fig. 664):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Melosira jungersii*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Melosira jungersii*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Melosira juergensi* Agardh)

***Melosira lineata* (Dillwyn) C. Agardh 1824, p. 8 [CAS ref. 000102]**

Basionym: *Conferva lineata* Dillwyn 1809 [CAS ref. 000275]

Synonym: *Melosira jurgensii* C. Agardh [CAS ref. 000102], according to Krammer & Lange-Bertalot 1991a, p. 10

Distribution (Fig. 665):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Melosira lineata* Agardh)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Melosira lineata* (Dillwyn) Agardh)

***Melosira minutissima* Kützing** [CAS ref. -]

Distribution (Fig. 666):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Melosira minutissima* Kützing)

***Melosira orichalcea* (Mertens in Jürgens) Kützing 1833**, p. 3 [CAS ref. 000593]

Distribution (Fig. 667):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Melosira orichalcea* (Mertens ex Jürgens) Kützing)

***Melosira roeseana* var. *spiralis* (Ehrenberg) Grunow in Van Heurck 1882**, pl. 89, fig. 7-8 [CAS ref. 001036]

Basionym: *Liparogyra spiralis* Ehrenberg 1854a [CAS ref. 000966]

Distribution (Fig. 668):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh. var. *spiralis*)

***Melosira undulata* (Ehrenberg) Kützing 1844**, p. 54; pl. 2, fig. 9 [CAS ref. 000595]

Basionym: *Gallionella undulata* Ehrenberg [CAS ref. 000966]

Distribution (Fig. 669):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Melosira undulata* (Ehr.) Kütz., fossil)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Melosira undulata* (Ehr.) Kütz., fossil)

***Melosira varians* C. Agardh 1827, p. 628 [CAS ref. 000103]**

Nomenclatural synonym: *Lysigonium varians* (C. Agardh) De Toni 1892b [CAS ref. 001993]

Distribution (Fig. 670):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Mogadouro (District: Bragança)
Site: Bemposta Reservoir, Douro River (Douro Basin)
Reference: Galhano et al. 1991 (as *Melosira varians*)
Subregion: Entre Douro e Vouga
Municipality: Arouca (District: Aveiro)
Site: Serra da Freita, Arões, Caima River (Vouga Basin)
References: Nunes 2007 (as *Melosira varians* Agardh); Ferreira da Silva et al. 2009 (as *Melosira varians* Agardh)
Municipality: Oliveira de Azeméis (District: Aveiro)
Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Melosira varians* Agardh)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh); Nunes 2007 (as *Melosira varians* C. A. Agardh)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Melosira varians* Ag.)

Municipality: Porto (District: Porto)
 Site: Fonte de Carreiros
 References: Colmeiro 1889 (as *Melosira varians* Kg.); Zimmermann 1914 (as *Lysigonium varians* (Ag.) De-Toni); Zimmermann 1914 (as *Melosira varians* Ag.)
 Site: Requezende
 Reference: Silva 1950b (as *Melosira varians* Ag.)
 Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Melosira varians*)
 Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Sains, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Melosira varians*)
 Municipality: Melgaço (District: Viana do Castelo)
 Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Melosira varians*)
 Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Melosira varians*)
 Municipality: Not Specified
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Melosira varians*)

REGION: CENTRO

Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Melosira varians* Kg.)
 Site: Coimbra
 Reference: De Toni 1887 (as *Melosira varians* C. A. Agardh)
 Site: Coimbra Reservoir, Mondego River (Mondego Basin)
 Reference: Craveiro & Santos 1997 (as *Melosira varians* Agardh)
 Site: Poço do Almegue
 Reference: Nauwerck 1959 (as *Melosira varians* C. A. Agardh)
 Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: de Figueiredo et al. 2006 (as *Melosira varians* Agardh)
 Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Nauwerck 1962 (as *Melosira varians* C. A. Agardh)
 Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Melosira varians* C. A. Agardh)
 Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)

- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh); Gil et al. 1989-1990 (as *Melosira varians*)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh); Almeida 1998 (as *Melosira varians* Agardh)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh); Gil et al. 1989-1990 (as *Melosira varians*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh); Gil et al. 1989-1990 (as *Melosira varians*)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Melosira varians* Agardh); Ferreira da Silva et al. 2009 (as *Melosira varians* Agardh)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
- Site: Ribeira de Fráguas, downstream of the Caima paper factory, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)

- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes et al. 2002 (as *Melosira varians* Agardh); Nunes 2007 (as *Melosira varians* Agardh); Ferreira da Silva et al. 2009 (as *Melosira varians* Agardh)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*); Almeida 1998 (as *Melosira varians* C. A. Agardh)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Melosira varians* C. A. Agardh)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Melosira varians* C. A. Agardh); Gil et al. 1989-1990 (as *Melosira varians*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Melosira varians* C. A. Agardh); Gil et al. 1989-1990 (as *Melosira varians*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
- Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Melosira varians* Agardh)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*); Almeida 1998 (as *Melosira varians* C. A. Agardh)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Melosira varians*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Melosira varians* Agardh)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
Site: Silva Escura (upstream of Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Melosira varians* Agardh)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Melosira varians* C. A. Agardh)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
Reference: Carvalho 1913 (as *Melosira varians* C. A. Agardh)
Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Melosira varians*)
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira varians*)
Subregion: Dão-Lafões

- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira varians* C. A. Agardh); Gil et al. 1989-1990 (as *Melosira varians*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira varians* C. A. Agardh); Gil et al. 1989-1990 (as *Melosira varians*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Melosira varians* C. A. Agardh)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Melosira varians*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Melosira varians* C. A. Agardh)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Melosira varians*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Melosira varians*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Melosira varians*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Nauwerck 1962 (as *Melosira varians* C. A. Agardh); Frade 1963 (as *Melosira varians* C. A. Ag.); Cabeçadas et al. 1980 (as *Melosira varians*); Brito & Andrade 1992 (as *Melosira varians*)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 References: Zimmermann 1906 (as *Melosira varians* Ag.); Oliveira & Caldas 1970 (*Melosira varians* Ag.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Melosira varians* Ag.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Melosira varians* Ag.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Melosira varians* Ag.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Melosira varians*)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Melosira varians*)

Subregion: Pinhal Interior Norte
 Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Melosira varians* C. A. Agardh)
 Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Irrigation channel near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Melosira varians* C. A. Agardh)
 Site: Marsh near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Melosira varians* C. A. Agardh)
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Melosira varians* C. A. Agardh)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Melosira varians*)

Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Melosira varians*)

Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Melosira varians* Ag.)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Nabão River (Tagus Basin)
 Reference: Rodrigues et al. 1982 (as *Melosira varians*)
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Melosira varians*)
 Site: Not Specified
 References: Calado 1990 (as *Melosira varians* C. A. Agardh); Gil et al. 1991 (as *Melosira varians*)

REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Melosira varians*)

REGION: ALENTEJO
 Subregion: Alentejo Central

- Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Melosira varians*); Oliveira 1984b (as *Melosira varians*)
- Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Andrade & Brito 1995 (as *Melosira varians*); Oliveira & Monteiro 1995 (as *Melosira varians*); Oliveira 1996 (as *Melosira varians*)
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Aulacoseira varians* Agardh)
 Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)
 Reference: Nauwerck 1962 (as *Melosira varians* C. A. Agardh)
- Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1984a (as *Melosira varians*)
- Municipality: Not Specified
 Site: Sado River (Sado Basin)
 Reference: Monteiro et al. 1995 (as *Melosira varians*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Melosira varians*)
- Municipality: Elvas, Portalegre (District: Portalegre)
 Site: Caia Reservoir, Caia River (Guadiana Basin)
 Reference: Oliveira 1984a (as *Melosira varians*)
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Melosira varians* C.A.Ag.); Fernandes et al. 1987 (as *Melosira varians*)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Melosira varians*)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Melosira varians*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Melosira varians* C.A.Ag.); Fernandes et al. 1987 (as *Melosira varians*)
- Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Melosira varians*)
- Subregion: Baixo Alentejo
- Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Melosira varians*)
Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Melosira varians*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira varians*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Melosira varians*)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Melosira varians*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Melosira varians*); Brito & Andrade
1992 (as *Melosira varians*)
Subregion: Not Specified
Municipality: Not Specified
Site: Guadiana River (Guadiana Basin)
Reference: Oliveira 1991 (as *Melosira varians*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Melosira varians*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira varians*)
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Melosira varians*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
References: Trelease 1897 (as *Lysigonium varians* De Toni); Holmboe
1901 (as *Melosira varians* C. A. Agardh)
Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Melosira varians* C. A. Agardh)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Melosira varians* C. A. Agardh); Bourrelly
& Manguin 1946a (as *Melosira varians* C. A. Agardh)
Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Melosira varians* Agh.)
Site: Furnas
Reference: Holmboe 1901 (as *Melosira varians* C. A. Agardh); Mölder 1947 (as *Melosira varians* C. A. Agardh)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Melosira varians* Agh.); Gonçalves 1997 (as *Melosira varians*)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Melosira varians* C. A. Agardh)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Melosira varians* Agh., fossil)
Municipality: Praia da Vitória (Terceira Island)
Site: Fonduras
Reference: Mölder 1947 (as *Melosira varians* C. A. Agardh)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Melosira varians* Agardh)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Melosira varians* Agardh)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Melosira varians* Agardh)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Melosira varians* Agardh)
Site: Not Specified
Reference: Gonçalves 2008 (as *Melosira varians* Agardh)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Caminho do Meio
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Site: Santa Luzia Stream
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Site: São João Stream
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Site: Tanque dos Estanquinhos
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Lysigonium varians* (Ag.) D. T.)
Municipality: Ribeira Brava (Madeira Island)
Site: Pico Stream, Serra da Ribeira Brava

Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Site: Pomar de Ambrosio, Campanário
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Melosira varians* C. A. Agardh)
Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Municipality: Santa Cruz (Madeira Island)
Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Lysigonium varians* (Ag.) D. T.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Melosira varians* C. A. Agardh)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Melosira varians* Agardh)

***Melosira* sp.**

Distribution (Fig. 671):

REGION: NORTE
Subregion: Ave
Municipality: Fafe (District: Braga)
Site: Travassós, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Melosira* sp.)
Subregion: Douro
Municipality: Armamar (District: Viseu)
Site: Queimadela, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Melosira* sp.)

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Frade 1952 (as *Melosira* sp.); Frade 1954 (as *Melosira* sp.);
Brito & Andrade 1992 (as *Melosira* spp.)
Subregion: Oeste
Municipality: Alenquer (District: Lisboa)
Site: Alenquer, Alenquer River (Tagus Basin)
Reference: Frade 1941a (as *Melosira* sp.); Frade 1941b (as *Melosira* sp.)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Melosira* spp.)

Meridion C. Agardh 1824, p. xiv
[CAS ref. 000102]

***Meridion circulare* (Greville) C. Agardh 1831**, p. 40 [CAS ref. 000939]

Basionym: *Echinella circularis* Greville 1823 [CAS ref. 000402]

Distribution (Fig. 672):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Oliveira de Azeméis (District: Aveiro)
Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Meridion circulare* (Greville) C.A. Agardh)
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Meridion circulare* (Greville) Agardh)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh);
Nunes 2007 (as *Meridion circulare* (Greville) Agardh var. *circulare*)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Meridion circulare* (Greville) Agardh var. *circulare*)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
Subregion: Minho-Lima
Municipality: Not Specified
Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Meridion circulare*)
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Meridion circulare* Agardh)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Poço do Almegue
Reference: Nauwerck 1959 (as *Meridion circulare* (Greville) Agardh)

Municipality: Montemor-o-Velho (District: Coimbra)
Site: Tentúgal, Olho da Ribeira dos Moinhos
Reference: Nauwerck 1959 (as *Meridion circulare* (Greville) Agardh)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)

Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*); Almeida 1998 (as *Meridion circulare* (Greville) Agardh)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Meridion circulare* (Grev.) Agardh)

Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)

Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)

Municipality: Albergaria-a-Velha (District: Aveiro)

- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Meridion circulare* (Greville) C.A. Agardh)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
- Site: Poço da ponte de São João de Loure, Vouga River (Vouga Basin)
Reference: Nauwerck 1959 (as *Meridion circulare* (Greville) Agardh)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Meridion circulare* (Greville) Agardh var. *circulare*)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Meridion circulare* (Greville) Agardh var. *circulare*)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Meridion circulare*); Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Meridion circulare*)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
- Site: Minhoteira, Antuã River (Vouga Basin)

- Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Meridion circulare*); Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Meridion circulare*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Meridion circulare* (Greville) Agardh)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Meridion circulare* (Greville) C.A. Agardh)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Meridion circulare* (Greville) C.A. Agardh)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Meridion circulare* Agardh)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Meridion circulare* (Grev.) Ag.)
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Meridion circulare*)
Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Alpedrinha
Reference: Zimmermann 1906 (as *Meridion circulare* (Grev.) Ag.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Meridion circulare* (Grev.) Agardh)
Site: Varzielas, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Meridion circulare* (Grev.) Agardh); Gil et al. 1989-1990 (as *Meridion circulare*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Meridion circulare*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Agardh)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Agardh)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Frade 1961 (as *Meridion circulare* Agardh); Cabeçadas et al. 1980 (as *Meridion circulare* (Greville) Agardh)
- Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Meridion circulare*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Meridion circulare*); Cerqueira da Silva et al. 1993 (as *Meridion circulare*); Cerqueira da Silva 1994 (as *Meridion circulare*)
 Site: Vouga Basin
 Reference: Almeida & Gil 2000 (as *Meridion circulare* (Greville) Agardh)
 Site: Not Specified
 Reference: Almeida & Gil 2001 (as *Meridion circulare* (Greville) Agardh)
- REGION: ALENTEJO
 Subregion: Alentejo Litoral
 Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1987 (as *Meridion circulare* Ag.)
- Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Meridion circulare*)
 Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Meridion circulare* Ag.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Meridion circulare*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Meridion circulare* (Greville) C.A. Agardh)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Meridion circulare* (Grev.) Ag., fossil)
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Meridion circulare*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Meridion circulare*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Meridion circulare* (Greville) Agardh, fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Meridion circulare* (Grev.) Agardh)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Meridion circulare* (Greville) C.A. Agardh var. *circulare*)

***Meridion constrictum* Ralfs 1843d**, p. 458; pl. 18, fig. 2 [CAS ref. 002133]

Nomenclatural synonym: *Meridion circulare* var. *constricta* (*constrictum*) (Ralfs) Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 673):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Meridion circulare* var. *constrictum* (Ralfs) Van Heurck)

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Prelada

Reference: Silva 1950b (as *Meridion circulare* Agardh. var. *constricta* (Ralfs) Van Heurck)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Meridion circulare* v. *constricta*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

- Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Meridion circulare* v. *constricta*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Meridion circulare* v. *constricta*)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Meridion circulare* var. *constrictum* (Ralfs) Van Heurck)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfrazes
 Reference: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Cubo
 Reference: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Diz River
 Reference: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Meios
 References: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*); Santos & Carvalho 2001 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*); Santos & Carvalho 2001 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Nueme
 Reference: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Meridion circulare* Ag. var. *constrictum*)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Meridion constrictum* Ralfs.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Meridion circulare* var. *constrictum* (Ralfs) Van Heurck)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Meridion circulare* (Grev.) Ag. v. *constricta* (Ralfs) van Heurck)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Frade 1961 (as *Meridion circulare* var. *constricta*)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Meridion circulare* var. *constrictum* (Ralfs) Van Heurck)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Meridion circulare* var. *constrictum* (Ralfs) Van Heurck)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Gil et al. 1991 (as *Meridion circulare* v. *constricta*); Almeida 1998 (as *Meridion circulare* var. *constrictum* (Ralfs) Van Heurck)
- REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Povoação (São Miguel Island)
 Site: Tambores, Furnas
 Reference: Chaves 1908 (as *Meridion constrictum*, fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Meridion circulare* (Greville) Agardh var. *constrictum* (Ralfs) Van Heurck)

***Meridion* sp.**

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Meridion* sp.)

***Microcostatus* J.R. Johansen & Sray 1998, p. 97-98**
[CAS ref. 007065]

***Microcostatus krasskei* (Hustedt) J.R. Johansen & Sray 1998, p. 98**
[CAS ref. 007065]

Basionym: *Navicula krasskei* Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 674):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca
Reference: Gonçalves 1996 (as *Navicula krasskei* Hustedt)
Municipality: Not Specified
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Microcostatus krasskei* (Hustedt) Johansen & Sray)

***Microcostatus naumanii* (Hustedt) Lange-Bertalot 1999d, p. 291**
[CAS ref. 012675]

Basionym: *Navicula naumanni* Hustedt 1942 [CAS ref. 000516]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Microcostatus naumannii* (Hustedt)
Lange-Bertalot, fossil)

***Muelleria* (Frenguelli) Frenguelli 1945, p. 172**
[CAS ref. 000365]

***Muelleria gibbula* (Cleve) S. Spaulding & Stoermer 1997, v. 12(1):**
p. 99 [CAS ref. 006845]

Basionym: *Navicula gibbula* Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 675):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula gibbula* Cleve)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Navicula gibbula* (?))

***Navicula Bory* 1822, p. 128 (vol. 2)**
[CAS ref. 000145]

***Navicula alpina* Ralfs in Pritchard 1861, p. 906; pl. IV, fig. 6** [CAS
ref. 001063]

Distribution (Fig. 676):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)
Site: Torre, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula alpina* Ralfs.)

***Navicula ammophila* Grunow 1882**, p. 149; pl. 30, fig. 66-69 [CAS ref. 000442]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula ammophila* Grunow)

***Navicula ampiceros* (Ehrenberg) De Toni 1891**, p. 190 [CAS ref. 000271]

Basionym: *Pinnularia ampiceros* Ehrenberg 1854b [CAS ref. 000300]

Distribution (Fig. 677):

REGION: NORTE
Subregion: Grande Porto
Municipality: Matosinhos (District: Porto)
Site: Not Specified
Reference: Zimmermann 1910 (as *Navicula ampiceros* Ehr.)

Navicula amphigomphus f. minor [CAS ref. -]

Distribution (Fig. 678):

REGION: NORTE
Subregion: Tâmega
Municipality: Castelo de Paiva (District: Aveiro)
Site: Raiva
Reference: Tempère & Peragallo 1907-1915 (as *Navicula amphigomphus f. minor*)

***Navicula anglica var. subsalina* Grunow in Van Heurck 1880**, (p. 87); pl. 8, fig. 31 [CAS ref. 000895]

Distribution (Fig. 679):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula anglica* Ralfs. var. *subsalina* Grun.)

***Navicula angusta* Grunow 1860**, p. 528; pl. 3, fig. 19 (pl. 5, fig. 19)
[CAS ref. 000427]

Nomenclatural synonym: *Navicula cari* var. *angusta* (Grunow) Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 680):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula angusta* Grunow); Nunes 2007 (as *Navicula angusta* Grunow)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Navicula angusta* Grunow); Nunes 2007 (as *Navicula angusta* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula angusta* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*); Almeida 1998 (as *Navicula angusta* Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula angusta* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula angusta* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula angusta* Grunow)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula angusta* Grunow)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula angusta* Grunow)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula angusta* Grunow)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula angusta* Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula angusta* Grunow)
- Site: Silva Escura, (upstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula angusta* Grunow)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
- Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula angusta* Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil et al. 1989-1990 (as *Navicula cari* v. *angusta*)
- Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)
Site: Caldeirão
References: Carvalho 1913 (as *Navicula cari* Ehr.v. *angusta* Grun.);
Santos & Carvalho 2001 (as *Navicula (cari* Ehr. var.) *angusta* Grun.)
Site: Vela
Reference: Carvalho 1913 (as *Navicula cari* Ehr.v. *angusta* Grun.)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula angusta* Grunow)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Navicula angusta* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Navicula angusta* Grunow)
Site: Not Specified
References: Calado 1990 (as *Navicula cari* Ehr.v. *angusta* Grunow); Gil
et al. 1991 (as *Navicula cari* v. *angusta*); Almeida & Gil 2001 (as
Navicula angusta Grunow); Feio et al. 2007 (as *Navicula angusta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula angusta* Grunow)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula angusta* Grunow)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula angusta* Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula angusta* Grunow)

***Navicula aquaedurae* Lange-Bertalot in Krammer & Lange-Bertalot 1991b**, pl. 69, figs. 1-10 [CAS ref. 006522]

Distribution (Fig. 681):

REGION: CENTRO
Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
- Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula aquaedurae* Lange-Bertalot);
 Almeida 2001 (as *Navicula aquaedurae* Lange-Bertalot)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula aquaedurae* Lange-Bertalot)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Almeida & Gil 2001 (as *Navicula aquaedurae* Lange-Bertalot)

***Navicula arvensis* Hustedt 1937a**, v. 15: p. 249; pl. 20, fig. 19-20
 [CAS ref. 001012]

Distribution (Fig. 682):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula arvensis* Hustedt)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula arvensis* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula arvensis* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula arvensis* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula arvensis* Hustedt)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River
(Vouga Basin)

Reference: Nunes 2007 (as *Navicula arvensis* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Navicula arvensis* Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)

Municipality: Sever do Vouga (District: Aveiro)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula arvensis* Hustedt)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula arvensis* Hustedt)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula arvensis* Hustedt)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula arvensis*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula arvensis* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula arvensis* Hustedt); Gil et al. 1989-1990
(as *Navicula arvensis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula arvensis* Hustedt); Gil et al. 1991
(as *Navicula arvensis*); Almeida 1998 (as *Navicula arvensis* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula arvensis* Hustedt)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula arvensis* Hustedt)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula arvensis* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula cf. arvensis* Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula arvensis* Hustedt)

***Navicula arvensis* var. *major* Lange-Bertalot in Krammer & Lange-Bertalot 1985**, p. 56-57; pl. 25, fig. 1-3 [CAS ref. 006263]

Distribution (Fig. 683):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula arvensis* Hustedt var. *maior* Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula arvensis* Hustedt var. *maior* Lange-Bertalot)

***Navicula associata* Lange-Bertalot & G. Hofmann 2001**, p. 18 [CAS ref. 009456]

Nomenclatural synonym: *Navicula reichardtiana* var. *crassa* Lange-Bertalot & G. Hofmann in Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 684):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula reichardtiana* var. *crassa* Lange-Bertalot & Hofmann)

***Navicula bacillaris* (Ehrenberg) De Toni 1891**, p. 98 [CAS ref. 000271]

Basionym: *Pinnularia bacillaris* Ehrenberg 1854b [CAS ref. 000300]

Distribution (Fig. 685):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Navicula bacillaris* Ehr.)

***Navicula bacillum f. minor* Grunow in Van Heurck 1880**, (p. 105);
pl. 13, fig. 10 [CAS ref. 000895]

Distribution (Fig. 686):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Guarda (District: Guarda)
Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula bacillum* Ehr. forma *minor*)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula bacillum f. minor*)

***Navicula brasiliana* (Cleve) Cleve 1894**, p. 139 [CAS ref. 000232]

Basionym: *Cymbella brasiliana* Cleve 1881 [CAS ref. 000222]

Distribution (Fig. 687):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Navicula brasiliana*)

***Navicula brehmii* Hustedt 1927b**, p. 163; pl. 5, fig. 6 [CAS ref. 012517]

Distribution (Fig. 688):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)

- References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula brehmii* Hustedt)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula brehmii* Hustedt)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula brehmii* Hustedt)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990 (as *Navicula brehmii*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula brehmii* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula brehmii* Hustedt)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula brehmii* Hustedt)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula brehmii* Hustedt); Gil et al. 1989-1990
(as *Navicula brehmii*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula brehmii*)

***Navicula cancellata* Donkin 1872**, p. 55; pl. 8, fig. 4 [CAS ref. 001167]

Distribution (Fig. 689):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Navicula cancellata* Donk., fossil)

***Navicula capitatoradiata* H. Germain 1981**, p. 188-189; pl. 72, fig. 7,
7 bis. [CAS ref. 009183]

Synonym: *Navicula cryptocephala* var. *intermedia* Grunow in Van Heurck 1880
[CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 105

Distribution (Fig. 690):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Navicula capitatoradiata* Germain)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula capitatoradiata* Germain)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula capitatoradiata* Germain); Gil et al.
1989-1990 (as *Navicula capitatoradiata*)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula capitatoradiata* Germain)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula capitatoradiata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula capitatoradiata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula capitatoradiata*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula capitatoradiata* Germain)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula capitatoradiata* Germain)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula capitatoradiata* Germain); Gil et al. 1989-1990 (as *Navicula capitatoradiata*)
 Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula capitatoradiata*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula capitatoradiata* Germain)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula capitatoradiata*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula capitatoradiata*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula capitatoradiata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula capitatoradiata*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Navicula capitatoradiata* Germain); Gil et al. 1991 (as *Navicula capitatoradiata*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula capitatoradiata* Germain)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula capitatoradiata* Germain)

Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula capitatoradiata* Germain)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula capitatoradiata* Germain)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula capitatoradiata* Germain)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula capitatoradiata* Germain)

Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula capitatoradiata* Germain)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula capitatoradiata* Germain)

***Navicula cari* Ehrenberg 1836b**, p. 83 [CAS ref. 002000]

Basionym: *Navicula cincta* var. *cari* (Ehrenberg; Ehrenberg) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 691):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cari* Ehrenberg)

Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cari* Ehrenberg)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula cari*)

Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula cari*)

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Navicula cari* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Navicula cari* Ehr.)

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Navicula cari* Ehr.)

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Navicula cari* Ehrenberg)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula cari* Ehrenberg)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula cari* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula cari* Ehrenberg)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Navicula cari* Ehrenberg)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula cari* Ehrenberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: INAG I.P. 2008 (as *Navicula cari* Ehrenberg); INAG I.P. 2008 (as *Navicula cincta* (Ehr.) Ralfs var. *cari* (Ehr.) Cleve

***Navicula caterva* M.H. Hohn & Hellerman 1963**, p. 296; pl. 3, fig. 38 [CAS ref. 000486]

Distribution (Fig. 692):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Navicula caterva* Hohn & Hellerman)

***Navicula cincta* (Ehrenberg) Ralfs in Pritchard 1861**, p. 901 [CAS ref. 001063]

Basionym: *Pinnularia cincta* Ehrenberg 1854a [CAS ref. 000966]

Distribution (Fig. 693):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula cincta* (Ehr.) Ralfs)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula cincta* (Ehr.) Ralfs)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula cincta*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula cincta* (Ehrenberg) Ralfs)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cincta*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cincta*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cincta*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cincta* (Ehrenberg) Ralfs)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cincta* (Ehrenberg) Ralfs)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cincta* (Ehrenberg) Ralfs)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cincta*)
 Site: Viadouros, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Navicula cincta*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cincta*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cincta*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cincta*)
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula cincta* (Ehr.) Kuetz.); Santos & Carvalho 2001 (as *Navicula cincta* (Ehr.) Kuetz.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula cincta* (Ehr.) Kuetz.)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1909b (as *Navicula cincta* (Ehr.) Kuetz.)
Site: Sobral do Campo
Reference: Zimmermann 1909b (as *Navicula cincta* (Ehr.) Kuetz.)
Site: Torre, Ocreza River (Tagus Basin)
Reference: Zimmermann 1909b (as *Navicula cincta* (Ehr.) Kuetz.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula cincta* (Ehr.) Ralfs)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula cincta* (Ehr.) Kützing)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

References: Calado 1990 (as *Navicula cincta* (Ehrenberg) Kützing); Gil et al. 1991 (as *Navicula cincta*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1914 (as *Navicula cincta* (Ehr.) Kuetz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)

Site: Not Specified

Reference: Mölder 1947 (as *Navicula cincta* (Ehr.))

Municipality: Horta (Faial Island)

Site: Flamengos

Reference: Holmboe 1901 (as *Navicula cincta* (Ehr.) Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Navicula cincta* (Ehr.) Kütz.)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Navicula cincta* (Ehr.) Kütz.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Navicula cincta* (Ehr.) Kütz.); Bourrelly & Manguin 1946a (as *Navicula cincta* (Ehr.) Kütz.)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)

Site: Pico Island

References: Johansson 1977 (as *Navicula cincta* (Ehr.) Kütz.); Gonçalves et al. 2010 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula cincta* (Ehrenberg) Ralfs in Pritchard)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Navicula cincta* (Ehr.))

***Navicula cincta* var. *heufleri* (Grunow) Grunow in Van Heurck 1880**, (p. 82); pl. 7, fig. 12, 15 [CAS ref. 000895]

Basionym: *Navicula heufleri* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 694):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Navicula cincta* v. *heufleri* Grunow)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Navicula cincta* (Ehrenberg) Kützing var. *heufleri* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Navicula cincta* (Ehr.) Kütz. var. *heufleri* Grun.); Bourrelly & Manguin 1946a (as *Navicula cincta* (Ehr.) Kütz. var. *heufleri* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Ponte do Espírito Santo

Reference: Zimmermann 1910-1911 (as *Navicula cincta* (Ehr.) Kuetz. var. *heufleri* Grun.)

***Navicula compressicauda* A.W.F. Schmidt 1874**, p. 91; pl. 2, fig. 35 [CAS ref. 000806]

Distribution (Fig. 695):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Navicula compressicauda* A. Schm., fossil)

Navicula cryptocephala Kützing 1844, p. 95; pl. 3, fig. 20, 26 19
[CAS ref. 000595]

Distribution (Fig. 696):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Navicula cryptocephala*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Navicula cryptocephala*)

Municipality: Not Specified

Reference: Zimmermann 1914 (as *Navicula cryptocephala* Kuetz.)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salomonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Navicula cryptocephala*)

Municipality: Not Specified

Site: Ave River (Ave Basin)

Reference: Cerqueira da Silva 1991 (as *Navicula cryptocephala*)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula cryptocephala*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula cryptocephala*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula cryptocephala*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula cryptocephala*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula cryptocephala*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula cryptocephala*)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Navicula cryptocephala* Kützing); Ferreira da Silva et al. 2009 (as *Navicula cryptocephala* Kützing)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula cryptocephala* Kützing);
 Nunes 2007 (as *Navicula cryptocephala* Kützing)
 Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Navicula cryptocephala* Kützing)
 Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 References: Almeida 1998 (as *Navicula cryptocephala* Kützing); Almeida
 2001 (as *Navicula cryptocephala* Kützing); Nunes et al. 2003 (as
Navicula cryptocephala Kützing); Nunes 2007 (as *Navicula*
cryptocephala Kützing)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula cryptocephala* Kützing);
 Nunes 2007 (as *Navicula cryptocephala* Kützing)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
 Subregion: Grande Porto
 Municipality: Porto (District: Porto)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Navicula cryptocephala* Kg.)
 Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Navicula cryptocephala*)
 Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Seixas, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula cryptocephala*)
 Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula cryptocephala*)
 Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
 Site: Barragem de Covas, Coura River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula cryptocephala*)
 Municipality: Not Specified
 Site: Ínsua do Ranhão, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula cryptocephala*)
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Navicula cryptocephala*)
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Navicula cryptocephala*);
 Cerqueira da Silva 1994 (as *Navicula cryptocephala*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula cryptocephala* Kützing)
 Municipality: Coimbra (District: Coimbra)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Navicula cryptocephala* Kg.)
 Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Navicula cryptocephala* Kützing)
 Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*); Almeida 1998 (as *Navicula cryptocephala* Kützing)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kützing)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)

- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Navicula cryptocephala* Kützing); Ferreira da Silva et al. 2009 (as *Navicula cryptocephala* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes 2007 (as *Navicula cryptocephala* Kützing); Ferreira da Silva et al. 2009 (as *Navicula cryptocephala* Kützing)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Navicula cryptocephala* Kützing); Nunes 2007 (as *Navicula cryptocephala* Kützing)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Navicula cryptocephala* Kützing)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula cryptocephala* Kützing)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Navicula cryptocephala* Kützing); Nunes 2007 (as *Navicula cryptocephala* Kützing)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes 2007 (as *Navicula cryptocephala* Kützing)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Navicula cryptocephala* Kützing); Nunes 2007 (as *Navicula cryptocephala* Kützing)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes et al. 2002 (as *Navicula cryptocephala* Kützing); Nunes et al. 2003 (as *Navicula cryptocephala* Kützing); Nunes 2007 (as *Navicula cryptocephala* Kützing); Ferreira da Silva et al. 2009 (as *Navicula cryptocephala* Kützing)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes 2007 (as *Navicula cryptocephala* Kützing); Ferreira da Silva et al. 2009 (as *Navicula cryptocephala* Kützing)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula cryptocephala*); Almeida 1998 (as *Navicula cryptocephala* Kützing)

- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula cryptocephala* Koetzing)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula cryptocephala*); Almeida 1998 (as *Navicula cryptocephala* Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula cryptocephala*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

- Reference: Nunes 2007 (as *Navicula cryptocephala* Kützing)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
- Reference: Nunes 2007 (as *Navicula cryptocephala* Kützing)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Navicula cryptocephala* Kützing)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
- References: Nunes et al. 2003 (as *Navicula cryptocephala* Kützing);
 Nunes 2007 (as *Navicula cryptocephala* Kützing)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
- References: Nunes et al. 2003 (as *Navicula cryptocephala* Kützing);
 Nunes 2007 (as *Navicula cryptocephala* Kützing)
- Municipality: Vila Verde (District: Aveiro)
 Site: Vila Verde, Levira River (Vouga Basin)
- References: Almeida 2001 (as *Navicula cryptocephala* Kützing); Almeida
 1998 (as *Navicula cryptocephala* Kützing)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
- Reference: Calado 1991 (as *Navicula cryptocephala* Kützing)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.)
- Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.)
- Site: Diz River
 Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.)
- Site: Gonçalves
 Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.)
- Site: Guarda
 Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.)
- Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.); Santos &
 Carvalho 2001 (as *Navicula cryptocephala* Kuetz.)
- Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.)
- Site: Vila Patrício
 Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula cryptocephala* Kuetz.)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Navicula cryptocephala*)

- Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula cryptocephala*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kützing)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula cryptocephala* Kützing)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Navicula cryptocephala*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kützing)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula cryptocephala* Kützing); Gil et al. 1989-1990 (as *Navicula cryptocephala*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula cryptocephala*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula cryptocephala*)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula cryptocephala*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Navicula cryptocephala*); Ferreira 1986 (as *Navicula cryptocephala*); Brito & Andrade 1992 (as *Navicula cryptocephala*)
- Municipality: Torres Novas (District: Santarém)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula cryptocephala* Kütz.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula cryptocephala* Kütz.)
 Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula cryptocephala* Kütz.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula cryptocephala* Kütz.)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula cryptocephala*)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Runa, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Navicula cryptocephala*)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula cryptocephala* Kützing)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula cryptocephala*)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula cryptocephala*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula cryptocephala*)
 Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula cryptocephala*)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Navicula cryptocephala* Kützing)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Nabão River (Tagus Basin)
 Reference: Rodrigues et al. 1982 (as *Navicula cryptocephala*)
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva et al. 1993 (as *Navicula cryptocephala*)
 Site: Not Specified
 References: Calado 1990 (as *Navicula cryptocephala* Kützing); Gil et al. 1991 (as *Navicula cryptocephala*)

REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Loures
 Site: Frielas, domestic wastewater treatment tanks
 Reference: Ferreira 1986 (as *Navicula cryptocephala*)
 Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira

- Reference: Oliveira 1971b (as *Navicula cryptocephala*)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Navicula cryptocephala*);
Rodrigues & Moita 1979b (as *Navicula cryptocephala*); Fernandes et al.
1987 (as *Navicula cryptocephala*)
- REGION: ALENTEJO
Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Navicula cryptocephala*); Oliveira 1984b
(as *Navicula cryptocephala*); Oliveira 1987 (as *Navicula cryptocephala*
Kz.); Andrade & Brito 1995 (as *Navicula cryptocephala*)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Andrade & Brito 1995 (as *Navicula cryptocephala*); Oliveira
& Monteiro 1995 (as *Navicula cryptocephala*); Oliveira 1996 (as
Navicula cryptocephala)
Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Navicula cryptocephala* Kützing)
Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
Reference: Oliveira 1984a (as *Navicula cryptocephala*)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
References: Oliveira 1984a (as *Navicula cryptocephala*); Oliveira 1987
(as *Navicula cryptocephala* Kz.)
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Navicula cryptocephala*)
Municipality: Not Specified
Site: Sado Estuary (Sado Basin)
Reference: Oliveira & Coutinho 1992 (as *Navicula cryptocephala*)
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Navicula cryptocephala*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Navicula cryptocephala*)
Municipality: Castelo de Vide (District: Portalegre)
Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula cryptocephala*)
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)

- Reference: Oliveira 1984a (as *Navicula cryptocephala*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Navicula cryptocephala* Kütz.); Fernandes et al. 1987 (as *Navicula cryptocephala*)
- Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Navicula cryptocephala*)
- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula cryptocephala*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Navicula cryptocephala* Kütz.); Fernandes et al. 1987 (as *Navicula cryptocephala*)
- Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
References: Oliveira 1984a (as *Navicula cryptocephala*); Coutinho 1990a (as *Navicula cryptocephala*)
- Subregion: Baixo Alentejo
- Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
References: Oliveira 1984a (as *Navicula cryptocephala*); Oliveira 1976 (as *Navicula cryptocephala* Kütz.)
- Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula cryptocephala*)
- Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Navicula cryptocephala*)
- Municipality: Ourique (District: Beja)
Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
Reference: Oliveira 1984a (as *Navicula cryptocephala*)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula cryptocephala*)
- Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula cryptocephala*)
- Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula cryptocephala*)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Navicula cryptocephala*); Brito & Andrade 1992 (as *Navicula cryptocephala*)

Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula cryptocephala*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
References: Oliveira 1984a (as *Navicula cryptocephala*); Oliveira 1987
(as *Navicula cryptocephala* Kz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Navicula cryptocephala* Kützing)

Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz.)

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Navicula cryptocephala* Kütz.); Bourrelly
& Manguin 1946a (as *Navicula cryptocephala* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz.)

Site: Lagoa das Sete Cidades
References: Holmboe 1901 (as *Navicula cryptocephala* Kütz.); Oliveira
1989 (as *Navicula cryptocephala*)

Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Navicula cryptocephala* Ktz.)

Site: Furnas
Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz.)

Site: Lagoa das Furnas
References: Chaves 1908 (as *Navicula cryptocephala* Ktz.); Rodrigues et
al. 1995 (as *Navicula cryptocephala*); Manguin 1942 (as *Navicula
cryptocephala* Kütz.); Bourrelly & Manguin 1946a (as *Navicula
cryptocephala* Kütz.); Mölder 1947 (as *Navicula cryptocephala* Kütz.);
Gonçalves 1997 (as *Navicula cryptocephala*)

Site: Ribeira Quente
Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz.)

Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Navicula cryptocephala* Kützing)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Navicula cryptocephala* Kützing)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Navicula cryptocephala* Kütz.); Bourrelly & Manguin 1946a (as *Navicula cryptocephala* Kütz.)
Site: Not Specified
Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz.)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Tanque
Reference: Azevedo et al. 2005 (as *Navicula cryptocephala*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephala* Kützing)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephala* Kützing)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephala* Kützing)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephala* Kützing)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephala* Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephala* Kützing)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephala* Kützing)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula cryptocephala* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Curral dos Romeiros, João Gomes Stream
Reference: Zimmermann 1909 (as *Navicula cryptocephala* Kuetz.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz.)
Municipality: Porto Santo (Porto Santo Island)
Site: Porto Santo
Reference: Zimmermann 1910-1911 (as *Navicula cryptocephala* Kuetz.)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Navicula cryptocephala* Kuetz.)
Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz.)

REGION: Not Specified
Subregion: Not Specified

Municipality: Not Specified
Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Navicula cryptocephala* Kützing)
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Navicula cryptocephala*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula cryptocephala* Kützing)

***Navicula cryptocephala* var. *exilis* Grunow in Van Heurck 1880**, (p. 85); pl. 8, fig. 2, 4 19 [CAS ref. 000895]

Distribution (Fig. 697):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Pico Island
Reference: Johansson 1977 (as *Navicula cryptocephala* v. *exilis* (Kütz.) Grun.)

***Navicula cryptocephala* var. *intermedia* Grunow in Van Heurck 1880**, pl. 8, fig. 10 [CAS ref. 000895]

Synonym: *Navicula capitatoradiata* H. Germain 1981 [CAS ref. 009183], according to Krammer & Lange-Bertalot 1986, p. 105

Distribution (Fig. 698):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)
Site: Caldeirão
References: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*); Santos & Carvalho 2001 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)
Site: Cubo
Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)
Site: Diz River

Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*); Santos & Carvalho 2001 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)
Site: Porto da Carne
Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)
Site: Vela
Reference: Carvalho 1913 (as *Navicula cryptocephala* Kuetz. var. *intermedia*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Navicula cryptocephala* Kütz. var. *intermedia* Grun.); Bourrelly & Manguin 1946a (as *Navicula cryptocephala* Kütz. var. *intermedia* Grun.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Navicula cryptocephala* Kütz. var. *intermedia* Grun.); Bourrelly & Manguin 1946a (as *Navicula cryptocephala* Kütz. var. *intermedia* Grun.)

***Navicula cryptocephala* var. *lancettula* (Schumann) Grunow in Van Heurck 1880, pl. 8, fig. 11 [CAS ref. 000895]**

Basionym: *Navicula lancettula* Schumann 1867a [CAS ref. 001004]

Distribution (Fig. 699):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)

Site: Bolfiar, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
- Municipality: Oliveira do Bairro (District: Aveiro)

- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula cryptocephala* v. *lancettula*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- References: Calado 1990 (as *Navicula cryptocephala* Kütz. v. *lancettula* Schumann); Gil et al. 1991 (as *Navicula cryptocephala* v. *lancettula*)

***Navicula cryptocephaloides* Hustedt 1937a**, p. 261; pl. 18, fig. 1-2
 [CAS ref. 001012]

Distribution (Fig. 700):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Bourrelly & Manguin 1946a (as *Navicula cryptocephaloides* Hust.)

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula cryptocephaloides* Hustedt)
Site: Not Specified
References: Bourrely & Manguin 1946b (as *Navicula cryptocephaloides*);
Gonçalves 2008 (as *Navicula cryptocephaloides* Hustedt)

***Navicula cryptotenella* Lange-Bertalot in Krammer & Lange-Bertalot 1985**, p. 62-64; pl. 18, fig. 22-23, pl. 19, fig. 1-10, pl. 27, fig. 1, 4 [CAS ref. 006263]

Synonym: *Navicula radiosa* var. *tenella* (Brébisson ex Kützing) Van Heurck 1885 [CAS ref. 001040], according to Krammer & Lange-Bertalot 1986, p. 106

Distribution (Fig. 701):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Navicula cryptotenella* Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)
 Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptotenella* Lange-Bertalot)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptotenella* Lange-Bertalot)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptotenella* Lange-Bertalot)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptotenella* Lange-Bertalot)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula cryptotenella* Lange-Bertalot)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula cryptotenella* Lange-Bertalot)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula cryptotenella*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula cryptotenella*)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula cryptotenella* Lange-Bertalot)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Navicula cryptotenella* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Navicula cryptotenella* Lange-Bertalot)
 Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula cryptotenella* Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula cryptotenella* Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Tagus and Sado Sedimentary Deposits

Reference: Morais et al. 2009 (as *Navicula cryptotenella* Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula cryptotenella* Lange-Bertalot)

***Navicula cryptotenelloides* Lange-Bertalot 1993**, p. 105-106; pl. 50, fig. 9-12, pl. 51, fig. 1-2 [CAS ref. 008467]

Distribution (Fig. 702)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula cryptotenelloides* Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula cryptotenelloides* Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula cryptotenelloides* Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula cryptotenelloides* Lange-Bertalot)

Navicula cymbula Donkin 1869, p. 294; pl. 18, fig. 6 [CAS ref. 002225]

Distribution (Fig. 703):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula cymbula* Donk., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula cymbula* Donk., fossil)

Navicula difficillima Hustedt 1950, p. 436; pl. 38, fig. 86-88 [CAS ref. 000522]

Distribution (Fig. 704):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula difficillima* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula difficillima* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula difficillima* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula difficillima* Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula difficillima* Hustedt)

Subregion: Dão-Lafões

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula difficillima* Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida, 1998 (as *Navicula difficillima* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula difficillima* Hustedt)

***Navicula difficillimoides* Hustedt 1957**, p. 270; fig. 8-9 [CAS ref. 000532]

Distribution (Fig. 705):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula difficillimoides* Hustedt, fossil)

***Navicula digitoradiata* (W. Gregory) Ralfs in Pritchard 1861**, p. 904 [CAS ref. 001063]

Basionym: *Pinnularia digitoradiata* (*digito-radiata*) W. Gregory 1856 [CAS ref. 000397]

Distribution (Fig. 706):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Navicula digitoradiata* (Gregory) Ralfs)

REGION: CENTRO
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Navicula digitoradiata* (Gregory) Ralfs)

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula digitoradiata* (Gregory) Ralfs)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula digitoradiata* (Gregory) Ralfs)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula digitoradiata* (Gregory) Ralfs)

Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula digito-radiata*)
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Navicula digito-radiata*)

***Navicula diluviana* Krasske 1933**, p. 90; Abb. 2/2 a-b, Abb. 3-4
[CAS ref. 001731]

Distribution (Fig. 707):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula diluviana* Krasske)

***Navicula dispersa* Manguin 1942**, p. 137; pl. 2, fig. 32 [CAS ref. 000623]

Distribution (Fig. 708):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Navicula dispersa* Manguin); Bourrelly & Manguin 1946a (as *Navicula dispersa* Manguin)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
References: Manguin 1942 (as *Navicula dispersa* Manguin); Bourrelly & Manguin 1946a (as *Navicula dispersa* Manguin)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula dispersa* Manguin)

***Navicula dispersa f. constricta* Manguin 1942**, p. 137; pl. 2, fig. 34
[CAS ref. 000623]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Bourrelly & Manguin 1946a (as *Navicula dispersa* fo. *constricta* Manguin)

***Navicula dispersa* f. *rostrata* Manguin 1942**, p. 137; pl. 2, fig. 33
[CAS ref. 000623]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Bourrelly & Manguin 1946a (as *Navicula dispersa* fo. *rostrata* Manguin)

***Navicula dissipata* Hustedt in Schmidt 1936**, pl. 403; pl. 7-8 [CAS ref. 012519]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula dissipata* (Kützing) Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula dissipata* Hustedt)

***Navicula divergens* f. *minor* A.W.F. Schmidt in Schmidt 1876**, pl. 44, fig. 14 [CAS ref. 012450]

Distribution (Fig. 709):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula divergens* (W. Sm.) Ralfs. forma *minor*)

***Navicula duerrenbergiana* Hustedt in Schmidt 1934b**, pl. 393, fig. 8-9 [CAS ref. 012518]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula duerrenbergiana* Hustedt in Schmidt et al.)

***Navicula eidrigiana* Carter 1979**, p. 78; fig. 58-64, 70-72 [CAS ref. 003531]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula eidrigiana* Carter)

***Navicula elliptica* var. *minima* Van Heurck 1885**, p. 92 [CAS ref. 001040]

Distribution (Fig. 710):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula elliptica* Kütz. var. *minima* Kütz.)

***Navicula erifuga* Lange-Bertalot in Krammer & Lange-Bertalot 1985**, p. 69; pl. 17, fig. 10-12 [CAS ref. 006263]

Distribution (Fig. 711):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula erifuga* Lange-Bertalot)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula erifuga* Lange-Bertalot)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula erifuga* Lange-Bertalot)

Municipality: Not Specified

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula erifuga* Lange-Bertalot)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula erifuga* Lange-Bertalot)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula erifuga* Lange-Bertalot)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula erifuga* Lange-Bertalot)

***Navicula festiva* Krasske 1925**, p. 47; pl. 1, fig. 16 [CAS ref. 000580]

Distribution (Fig. 712)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula festiva* Krasske)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula festiva* Krasske)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula festiva* Krasske)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula festiva* Krasske)

***Navicula fusca* (W. Gregory) Ralfs in Pritchard 1861**, p. 898 [CAS ref. 001063]

Basionym: *Navicula smithii* var. *fusca* W. Gregory 1857a [CAS ref. 000399]

Distribution (Fig. 713):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula fusca*)

***Navicula fusiformis* Grunow 1877**, p. 178; pl. 195, fig. 11 a-b [CAS ref. 000437]

Distribution (Fig. 714):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Navicula fusiformis* Grun., fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Navicula fusiformis* Grun., fossil)

***Navicula germainii* J.H. Wallace 1960**, p. 3; pl. 2, fig. 1 A-C [CAS ref. 001548]

Nomenclatural synonym: *Navicula viridula* var. *germainii* (J.H. Wallace) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 715):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula viridula* var. *germainii* (Wallace) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Navicula germainii* Wallace)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula germainii* Wallace)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula germainii* Wallace)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula viridula* var. *germainii*
(Wallace) Lange-Bertalot)

***Navicula gibba* var. *brevistriata* Van Heurck 1885**, p. 78; pl. 6, fig. 5
[CAS ref. 001040]

Distribution (Fig. 716):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfrazes
Reference: Carvalho 1913 (as *Navicula gibba* (Ehr.) Kuetz. var.
brevistriata)

***Navicula gibberula* var. *oblonga* Lagerstedt 1873**, p. 31 [CAS ref.
000597]

Distribution (Fig. 717):

REGION: NORTE
Subregion: Minho-Lima
Municipality: Paredes de Coura (District: Viana do Castelo)
Site: Insalde
Reference: Zimmermann 1910 (as *Navicula gibberula* Kuetz. var.
oblonga Lagerst.)

***Navicula globosa* F. Meister 1935**, p. 89; fig. 8 [CAS ref. 000645]

Synonym: *Navicula schadei* Krasske 1929 [CAS ref. 000582], according to
Krammer & Lange-Bertalot 1986, p.199

Distribution (Fig. 718):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula globosa* Meister); Gil et al. 1989-1990 (as *Navicula globosa*)

Site: Requeixo 1, Águeda River (Vouga Basin)

Reference:

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula globosa* Meister); Gil et al. 1989-1990 (as *Navicula globosa*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula globosa* Meister)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Navicula globosa* Meister); Gil et al. 1991 (as *Navicula globosa*)

***Navicula glomus* J.R. Carter & Bailey-Watts 1981, p. 578-579; pl. 13, fig. 17 [CAS ref. 003626]**

Distribution (Fig. 719):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula glomus* Carter & Bailey-Watts)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula glomus* Carter & Bailey-Watts)

***Navicula gracilis* Ehrenberg 1832a**, p. 64, 69 [CAS ref. 000281]

Synonym: *Navicula tripunctata* (O.F. Müller) Bory [CAS ref. 011536], according to Krammer & Lange-Bertalot 1986, p. 95

Distribution (Fig. 720):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula gracilis* Ehrenberg)

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Navicula gracilis* Ehrenb.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula gracilis*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula gracilis* Ehrenberg)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

References: Nunes 2007 (as *Navicula gracilis* Ehrenberg); Ferreira da Silva et al. 2009 (as *Navicula gracilis* Ehrenberg)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula gracilis*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula gracilis*)

Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula gracilis*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula gracilis*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula gracilis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Navicula gracilis* Ehr.)
 Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula gracilis*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula gracilis*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula gracilis*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula gracilis*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Navicula gracilis* Ehrenberg)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula gracilis* Kuetz.)
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula gracilis*)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula gracilis*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Brito & Andrade 1992 (as *Navicula gracilis* (?))
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Navicula gracilis* Ehr.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula gracilis* Kütz.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula gracilis* Kütz.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula gracilis* Kütz.)
 Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula gracilis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Navicula gracilis*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Navicula gracilis*); Rodrigues & Moita 1979b (as *Navicula gracilis*); Fernandes et al. 1987 (as *Navicula gracilis*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Navicula gracilis* Kütz.); Fernandes et al. 1987 (as *Navicula gracilis*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula gracilis*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula gracilis*)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula gracilis*)
Subregion: Lezíria do Tejo
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula gracilis*)
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Navicula gracilis* Kütz., fossil)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Navicula gracilis*); Brito & Andrade 1992 (as *Navicula gracilis* (?))
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula gracilis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Navicula gracilis* Ehr.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Navicula gracilis* Ehr.); Bourrelly &

Manguin 1946a (as *Navicula gracilis* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Navicula gracilis* Ehr.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Navicula gracilis* Ehr.)

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Navicula gracilis* Ehr.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Navicula gracilis*)

***Navicula gracilis* var. *schizonemoides* Van Heurck 1885**, p. 83
[CAS ref. 001040]

Distribution (Fig. 721):

REGION: CENTRO

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Santa Cruz

Reference: Zimmermann 1910 (as *Navicula gracilis* Kuetz. var. *schizonemoides* V. H.)

***Navicula gregaria* Donkin 1861**, p. 10; pl. 1, fig. 10 [CAS ref. 000278]

Distribution (Fig. 722):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Navicula gregaria* Donkin)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Navicula gregaria* Donkin); Nunes 2007
(as *Navicula gregaria* Donkin)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula gregaria* Donkin)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula gregaria* Donkin); Almeida 1998 (as
Navicula gregaria Donkin)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gregaria* Donkin)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gregaria* Donkin)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula gregaria* Donkin); Gil et al. 1989-1990
(as *Navicula gregaria*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula gregaria*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gregaria* Donkin)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula gregaria* Donkin); Gil et al. 1989-1990
(as *Navicula gregaria*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula gregaria* Donkin); Gil et al. 1989-1990
(as *Navicula gregaria*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gregaria* Donkin)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula gregaria* Donkin); Gil et al. 1989-1990
(as *Navicula gregaria*)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Navicula gregaria* Donkin); Ferreira da Silva
et al. 2009 (as *Navicula gregaria* Donkin)

Municipality: Albergaria-a-Velha (District: Aveiro)

- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes 2007 (as *Navicula gregaria* Donkin); Ferreira da Silva et al. 2009 (as *Navicula gregaria* Donkin)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula gregaria*); Almeida 1998 (as *Navicula gregaria* Donkin)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula gregaria* Donkin)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula gregaria* Donkin); Gil et al. 1989-1990 (as *Navicula gregaria*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gregaria* Donkin)

Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula gregaria*); Almeida 1998 (as *Navicula gregaria* Donkin)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula gregaria*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gregaria* Donkin)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula gregaria* Donkin)
Municipality: Vila Verde (District: Aveiro)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 2001 (as *Navicula gregaria* Donkin)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gregaria* Donkin)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gregaria* Donkin)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gregaria* Donkin)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gregaria* Donkin)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula gregaria* Donkin)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gregaria* Donkin)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gregaria* Donkin)
Subregion: Not Specified
Municipality: Not Specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Navicula gregaria*)
Site: Not Specified
References: Calado 1990 (as *Navicula gregaria* Donkin); Gil et al. 1991
(as *Navicula gregaria*); Feio et al. 2007 (as *Navicula gregaria*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula gregaria* Donkin)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula gregaria* Donkin)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula gregaria* Donkin)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula gregaria*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula gregaria* Donkin)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Navicula gregaria* Donkin)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula gregaria* Donkin)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Navicula gregaria* Donkin)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula gregaria* Donkin)
Site: São Miguel Island (middle and downstream sites)
Reference: Gonçalves et al. 2008 (as *Navicula gregaria*)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Navicula gregaria* Donkin)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus and Sado Sedimentary Deposits
Reference: Morais et al. 2009 (as *Navicula gregaria* Donkin)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula gregaria* Donkin)

***Navicula grimmei* Krasske in Hustedt 1930**, p. 264; fig. 448 [CAS ref. 000502]

Distribution (Fig. 723):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula grimmei*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula grimmei*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula grimmei*)

***Navicula halophila* f. *subcapitata* (Østrup) Hustedt 1961**, p. 66 [CAS ref. 001273]

Basionym: *Navicula halophila* var. *subcapitata* Østrup 1910 [CAS ref. 000706]

Synonyms: *Navicula halophila* (Grunow in Van Heurck) Cleve 1894 [CAS ref. 000232], according to Krammer & Lange-Bertalot 1986, p.126
Navicula simplex Krasske 1925 [CAS ref. 000580], according to Krammer & Lange-Bertalot 1986, p.126

Navicula halophila f. *robusta* Hustedt 1959b [CAS ref. 002276], according to Krammer & Lange-Bertalot 1986, p.126

Distribution (Fig. 724):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Navicula halophila* v. *robusta* f. *subcapitata* Oestrup)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup); Gil et al. 1989-1990 (as *Navicula halophila* v. *robusta* f. *subcapitata*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup); Gil et al. 1989-1990 (as *Navicula halophila* v. *robusta* f. *subcapitata*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta* Hustedt f. *subcapitata* Östrup)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta*
Hustedt f. *subcapitata* Östrup)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula halophila* (Grun.) Cleve v. *robusta*
Hustedt f. *subcapitata* Östrup)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula halophila* (Grunow) Cleve var.
robusta Hustedt f. *subcapitata* Östrup); Gil et al. 1991 (as *Navicula*
halophila v. *robusta* f. *subcapitata*)

***Navicula harderi* Hustedt in Brendemühl 1949**, p. 439, Abb. 4 [CAS
ref. 002205]

Distribution (Fig. 725):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula harderii*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula harderii*)

***Navicula hasta* Pantocsek 1892**, pl. 5, fig. 74, pl. 14, fig. 213 [CAS
ref. 001034]

Distribution (Fig. 726):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Navicula hasta* Pant., fossil)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Navicula hasta* Pant., fossil)

Navicula heimansii van Dam & Kooyman 1982, p. 1; fig. 1-10
[CAS ref. 005704]

Distribution (Fig. 727):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman); Almeida 2001 (as *Navicula heimansii* Van Dam & Kooyman)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula heimansii* Van Dam & Kooyman)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Municipality: Estarreja (District: Aveiro)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula heimansii* Van Dam & Kooyman)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula heimansii*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Navicula heimansii*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Navicula heimansii* Van Dam & Kooyman)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula heimansii* Van Dam & Kooyman)

***Navicula heimansioides* Lange-Bertalot 1993**, p. 113-114; pl. 62, fig. 7-10, Bacill. 2/4, fig. 1-8, Bacill. 2/1, fig. 9-11 [CAS ref. 008467]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula heimansioides* Lange-Bertalot)

***Navicula henriquesii* C. Zimmermann 1917**, p. 6; pl. 1, fig. 4 [CAS ref. 000935]

Distribution (Fig. 728):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Casal da Torre, Ocreza River (Tagus Basin)
Reference: Zimmermann 1917 (as *Navicula henriquesii* Zimmermann)

Navicula humilis Donkin 1872, p. 67; pl. 10, fig. 7 [CAS ref. 001167]

Distribution (Fig. 729):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula humilis* Donk.)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Navicula humilis* Donk.)

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Navicula humilis*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Navicula humilis*)

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula humilis* Donk.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Navicula humilis*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula humilis*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Navicula humilis*); Oliveira 1987 (as *Navicula humilis* Donk.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Navicula humilis*)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Navicula humilis*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Navicula humilis* Donk.)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Navicula humilis* Donk.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
References: Oliveira 1984a (as *Navicula humilis*); Coutinho 1990a (as
Navicula humilis)
Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula humilis*)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Navicula humilis*, fossil)
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Navicula humilis* Donkin, fossil)

***Navicula imperfecta* Cleve 1883**, p. 466; pl. 36, fig. 34 [CAS ref. 000224]

Distribution (Fig. 730):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River
(Vouga Basin)
Reference: Nunes 2007 (as *Navicula imperfecta* Cleve)

***Navicula impexa* Hustedt 1961**, p. 151; fig. 1282 [CAS ref. 001273]

Distribution (Fig. 731):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula impexa* Hustedt)

***Navicula incerta* Grunow in Van Heurck 1880**, (p. 107); pl. 14, fig. 43 [CAS ref. 000895]

Distribution (Fig. 732):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Navicula incerta* Grun.)

***Navicula infirma* Manguin 1942**, p. 138; pl. 2, fig. 38 [CAS ref. 000623]

Distribution (Fig. 733):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Navicula infirma* Manguin); Bourrelly & Manguin 1946a (as *Navicula infirma* Manguin)

***Navicula infirmata* Hustedt & Manguin in Hustedt 1962**, p. 207; fig. 115 [CAS ref. 002277]

Distribution (Fig. 734):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula infirmata* Hustedt & Manguin)

***Navicula lanceolata* (C. Agardh) Kützing 1844 nom. illeg.**, p. 94; pl. 28, fig. 38, pl. 30, fig. 48 [CAS ref. 000595]

Basionym: *Frustulia lanceolata* C. Agardh 1827 [CAS ref. 000103]

Distribution (Fig. 735):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg);
 Ferreira da Silva et al. 2009 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula lanceolata*); Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)

- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula lanceolata*); Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula lanceolata*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula lanceolata* (Agardh) Ehrenberg)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula lanceolata* (C. Agardh) Ehrenberg); Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula lanceolata* (C. Agardh) Ehrenberg)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Navicula lanceolata* (Agardh) Ehrenberg)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Caldeirão
 Reference: Santos & Carvalho 2001 (as *Navicula lanceolata* Kuetz.)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Navicula lanceolata* Kuetz.)
 Site: Meios
 Reference: Santos & Carvalho 2001 (as *Navicula lanceolata* Kuetz.)
 Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula lanceolata* Kuetz.); Santos & Carvalho 2001 (as *Navicula lanceolata* Kuetz.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula lanceolata*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula lanceolata*)

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula lanceolata* Kütz.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula lanceolata* Kütz.)

Subregion: Not Specified

Municipality: Not Specified

Site: Vouga Basin

Reference: Almeida & Gil 2000 (as *Navicula lanceolata* (Agardh) Ehrenberg)

Site: Not Specified

References: Calado 1990 (as *Navicula lanceolata* (Agardh) Ehrenberg); Almeida & Gil 2001 (as *Navicula lanceolata* (Agardh) Ehrenberg)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula lanceolata*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Navicula lanceolata* (Ag.) Kz.)

Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Navicula lanceolata*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Navicula lanceolata*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Navicula lanceolata* Kütz.)
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Navicula lanceolata* Ktz., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Navicula lanceolata* Ktz., fossil)
Site: Not Specified
Reference: Silva 1946b (as *Navicula lanceolata* Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Navicula lanceolata*, fossil)
Municipality: Not Specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula lanceolata* (Agardh) Ehrenberg, fossil)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula lanceolata* (Agardh) Ehrenberg)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula lanceolata* (Agardh) Ehrenberg)

***Navicula lanceolata* f. *minuta* Rabenhorst 1864**, p. 175 [CAS ref. 000775]

Distribution (Fig. 736):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)

Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula lanceolata* Kuetz. forma *minuta* Rabenh.)

***Navicula laterostrata* Hustedt 1925**, p. 349; fig. 4 [CAS ref. 001707]

Distribution (Fig. 737):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Navicula laterostrata* Hust.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Navicula laterostrata* Hust.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta laterostrata* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula laterostrata* Hustedt)

***Navicula lepidissima* Cleve-Euler 1953**, p. 165; fig. 840 c [CAS ref. 001042]

Distribution (Fig. 738):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Navicula lepidissima* Cleve-Euler); Gil et al. 1989-1990 (as *Navicula lepidissima*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula lepidissima* Cleve-Euler); Gil et al. 1989-1990 (as *Navicula lepidissima*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

- Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula lepidissima* Cleve-Euler); Gil et al. 1989-1990 (as *Navicula lepidissima*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Navicula lepidissima* Cleve-Euler); Gil et al. 1989-1990 (as *Navicula lepidissima*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula lepidissima* Cleve-Euler)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Navicula lepidissima*)

***Navicula leptostriata* E.G. Jørgensen 1948**, p. 59; pl. 2, fig. 25 [CAS ref. 001292]

Distribution (Fig. 739):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Navicula leptostriata* Jorgensen); Ferreira da Silva et al. 2009 (as *Navicula leptostriata* Jorgensen)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula leptostriata* Jørgensen)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Navicula leptostriata* Jorgensen); Ferreira da Silva et al. 2009 (as *Navicula leptostriata* Jorgensen)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Navicula leptostriata* Jorgensen); Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula leptostriata* Jorgensen)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Navicula leptostriata* Jorgensen)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Navicula leptostriata* Jorgensen)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula leptostriata* Jorgensen)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula leptostriata* Jorgensen)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula leptostriata* Jorgensen)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula leptostriata* Jorgensen)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula leptostriata* Jorgensen)

***Navicula libonensis* Schoeman 1970**, p. 342; pl. 3, fig. 36, 37 [CAS ref. 005410]

Distribution (Fig. 740):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula libonensis* Schoeman)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula libonensis* Schoeman)

***Navicula longa* (W. Gregory) Ralfs in Pritchard 1861**, p. 906 [CAS ref. 001063]

Basionym: *Pinnularia longa* W. Gregory 1856 [CAS ref. 000398]

Distribution (Fig. 741):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Navicula longa*)

***Navicula longicephala* Hustedt 1944**, p. 277; fig. 17 [CAS ref. 002271]

Distribution (Fig. 742):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula longicephala* Hustedt)

***Navicula lucidula* Grunow in Van Heurck 1880**, pl. 14, fig. 40 [CAS ref. 000895]

Distribution (Fig. 743):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Navicula lucidula* Grun., fossil)

***Navicula lundii* E. Reichardt 1985**, p. 180; pl. 1, fig. 29-33, pl. 3, fig. 14 [CAS ref. 008698]

Distribution (Fig. 744):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula lundii* Reichardt)

REGION: CENTRO
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula lundii* Reichardt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula lundii* Reichardt)

***Navicula lusitanica* C. Zimmermann 1917 [CAS ref. 000935]**

Distribution (Fig. 745):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Casal da Torre, Ocreza River (Tagus Basin)
Reference: Zimmermann 1917 (as *Navicula lusitanica* Zimmermann)

***Navicula macra* Grunow in Schmidt 1876, pl. 44, fig. 54 [CAS ref. 012450]**

Distribution (Fig. 746):

REGION: NORTE
Subregion: Minho-Lima
Municipality: Paredes de Coura (District: Viana do Castelo)
Site: Insalde
Reference: Zimmermann 1910 (as *Navicula macra* Grun.)

***Navicula madeirensis* Lange-Bertalot 1993, p. 119-120; pl. 52, fig. 15-19, Bacill. 2/4, fig. 67: 5-10 [CAS ref. 008467]**

Distribution:

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Not Specified

Site: Not Specified

Reference: Lange-Bertalot 1993 (as *Navicula madeirensis* Lange-Bertalot)

***Navicula maidanae* Metzeltin & Lange-Bertalot 1998**, p. 142-143; pl. 76, fig. 14-15 [CAS ref. 007051]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula maidanae* Metzeltin & Lange-Bertalot)

***Navicula margalithii* Lange-Bertalot in Krammer & Lange-Bertalot 1985**, p. 79-80; pl. 17, fig. 1-3, pl. 28, fig. 1-4 [CAS ref. 006263]

Distribution (Fig. 747):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula margalithii* Lange-Bertalot)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula margalithii*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula margalithii*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Navicula margalithii* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula margalithii* Lange-Bertalot)

***Navicula medioconvexa* Hustedt 1961**, p. 151; fig. 1283 [CAS ref. 001273]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula medioconvexa* Hustedt)

***Navicula menisculus* Schumann 1867a**, p. 56; pl. 2, fig. 33 [CAS ref. 001004]

Distribution (Fig. 748):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula menisculus* Schumann)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula menisculus* Schumann); Almeida 1998 (as *Navicula menisculus* Schumann)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula menisculus* Schumann)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula menisculus* Schumann)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula menisculus*)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula menisculus* Schumann)
Site: Raivo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula menisculus* Schumann)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula menisculus* Schumann); Gil et al. 1989-1990 (as *Navicula menisculus*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Navicula menisculus* Schumann); Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Nunes et al. 2002 (as *Navicula menisculus* Schumann var. *menisculus*)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula menisculus*); Almeida 1998 (as *Navicula menisculus* Schumann)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Navicula menisculus* Schumann)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula menisculus* Schumann)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- References: Gil 1988 (as *Navicula menisculus* Schumann); Gil et al. 1989-1990 (as *Navicula menisculus*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula menisculus*); Almeida 1998 (as *Navicula menisculus* Schumann)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula menisculus*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula menisculus* Schumann)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula menisculus* Schumann)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula menisculus* Schumann); Gil et al. 1989-1990 (as *Navicula menisculus*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula menisculus* Schumann)
- Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula menisculus* Schumann)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula menisculus*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula menisculus*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Navicula menisculus* Schumann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula menisculus* Schumann)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula menisculus* Schumann var. *menisculus*)

***Navicula milthersii* Foged 1962**, p. 22; pl. 4, fig. 18 [CAS ref. 000329]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula milthersii* Foged)

***Navicula mimicans* Hanna 1932**, p. 200; pl. 13, fig. 4 [CAS ref. 000014]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula mimicans* Hanna)

***Navicula minima* var. *atomoides* (Grunow in Van Heurck) Cleve 1894**, p. 128 [CAS ref. 000232]

Basionym: *Navicula atomoides* Grunow in Van Heurck 1880 [CAS ref. 000895]

Synonym: *Navicula minima* Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 229

Navicula tantula Hustedt 1934, p. 162 [CAS ref. 001708], according to Krammer & Lange-Bertalot 1986, p. 229

Distribution (Fig. 749):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1910 (as *Navicula atomoides* Grun.)

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Navicula atomoides* Grun.)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)

Site: Guarda

Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)

Site: Meios

References: Carvalho 1913 (as *Navicula atomoides* Grun.); Santos & Carvalho 2001 (as *Navicula atomoides* Grun.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula atomoides* Grun.); Santos & Carvalho 2001 (as *Navicula atomoides* Grun.)

Site: Vela
Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula atomoides* Grun.)
Site: Not Specified
Reference: Zimmermann 1910 (as *Navicula atomoides* Grun.)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Sobral do Campo
Reference: Zimmermann 1910 (as *Navicula atomoides* Grun.)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Santa Cruz
Reference: Zimmermann 1910 (as *Navicula atomoides* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Navicula atomoides* Grun.); Manguin 1942 (as *Navicula minima* Grun. var. *atomoides* (Grun.) Cleve); Bourrelly & Manguin 1946a (as *Navicula minima* Grun. var. *atomoides* (Grun.) Cleve)
Site: Ribeira Quente
References: Manguin 1942 (as *Navicula minima* Grun. var. *atomoides* (Grun.) Cleve); Bourrelly & Manguin 1946a (as *Navicula minima* Grun. var. *atomoides* (Grun.) Cleve)

***Navicula modica* Hustedt 1945**, p. 916; pl. 41, fig. 21-23 [CAS ref. 000518]

Distribution (Fig. 750):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula modica* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula modica* Hustedt)

***Navicula mutica* var. *gomphonemoides* Manguin 1942**, p. 138; pl. 2, fig. 37 [CAS ref. 000623]

Distribution (Fig. 751):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Navicula mutica* var. *gomphonemoides*);
Bourrelly & Manguin 1946a (as *Navicula mutica* var. *gomphonemoides*)

***Navicula neoventricosa* Hustedt 1964**, p. 612; fig. 1612 (first 4 illustrations) [CAS ref. 002279]

Synonym: *Navicula mutica* var. *ventricosa* (Kützing) Cleve & Grunow 1880 [CAS ref. 000241], according to Krammer & Lange-Bertalot 1986, p. 150

Distribution (Fig. 752):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula neoventricosa*)

Municipality: Mealhada (District: Aveiro)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula neoventricosa*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula neoventricosa*)

***Navicula notha* J.H. Wallace 1960**, p. 4; pl. 1, fig. 4 A-D [CAS ref. 001548]

Distribution (Fig. 753):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula notha* Wallace)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Navicula notha* Wallace)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula notha* Wallace)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula notha* Wallace)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula notha* Wallace)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula notha* Wallace)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula notha* Wallace)

***Navicula novaesiberica* Lange-Bertalot 1993**, p. 126-127; pl. 61, fig. 1-8, Bacill. 2/4, fig. 66: 5-8 [CAS ref. 008467]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula novaesiberica* Lange-Bertalot)

***Navicula oblonga* (Kützing) Kützing 1844**, p. 97 [CAS ref. 000595]

Basionym: *Frustulia oblonga* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 754):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Navicula oblonga* Grunow)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Navicula oblonga* Grunow)
Subregion: Baixo Vouga
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Navicula oblonga* Kützing)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Navicula oblonga* Kützing)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946a (as *Navicula oblonga* Kütz., fossil); Silva 1946b
(as *Navicula oblonga* Kütz., fossil)

***Navicula obsoleta* Hustedt 1942a**, p. 69; fig. 12-16 [CAS ref. 000517]

Distribution (Fig. 755):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula obsoleta* Hustedt)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula obsoleta* Hustedt)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula obsoleta* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula obsoleta* Hustedt)

***Navicula oligotraphenta* Lange-Bertalot & G. Hofmann in Lange-Bertalot 1993**, p. 128-129; pl. 48, fig. 6-11, pl. 49, fig. 3-4, Bacill. 2/4, fig. 60: 16-21 [CAS ref. 008467]

Distribution (Fig. 756):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Navicula oligotraphenta* Lange-Bertalot & Hofmann)

***Navicula palpebralis* Brébisson in litt., W. Smith 1853**, p. 50; pl. 31, fig. 273 [CAS ref. 000863]

Distribution (Fig. 757):

REGION: CENTRO

Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula palpebralis* Bréb.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula palpebralis* Bréb.)

***Navicula parvula* Ralfs in Pritchard 1861**, p. 908 [CAS ref. 001063]

Distribution (Fig. 758):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1910 (as *Navicula parvula* Ralfs.)

***Navicula peregrina* (Ehrenberg) Kützing 1844**, p. 97; pl. 28, fig. 52
c [CAS ref. 000595]

Basionym: *Pinnularia peregrina* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 759):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Navicula peregrina* (Ehrenberg) Kützing)

***Navicula peregrina* var. *meniscus* (Schumann) Grunow 1880**, p. 33
[CAS ref. 009613]

Basionym: *Navicula meniscus* Schumann 1867a [CAS ref. 001004]

Distribution (Fig. 760):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Navicula peregrina* (Ehr.?) Kuetz. var. *meniscus* (Schun.?) Grun.)

***Navicula persica* Rabenhorst 1853**, p. 41; pl. 6, fig. 55 [CAS ref. 000772]

Distribution (Fig. 761):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula persica* Rabenhorst)

***Navicula peterseni* Hustedt 1937d**, p. 192-193; fig. 17-20 [CAS ref. 000510]

Distribution (Fig. 762):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Navicula peterseni* Hust.); Bourrelly & Manguin 1946a (as *Navicula peterseni* Hust.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Navicula peterseni* Hust.); Bourrelly & Manguin 1946a (as *Navicula peterseni* Hust.)

Site: Pico Verde

References: Manguin 1942 (as *Navicula peterseni* Hust.); Bourrelly & Manguin 1946a (as *Navicula peterseni* Hust.)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Navicula peterseni* Hust.); Bourrelly & Manguin 1946a (as *Navicula peterseni* Hust.)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula peterseni* Hustedt)

Site: Not Specified

Reference: Bourrelly & Manguin 1946b (as *Navicula peterseni*)

Navicula petersii (Ehrenberg) Kützing 1849, p. 70 [CAS ref. 000596]

Basionym: *Pinnularia petersii* Ehrenberg 1845d [CAS ref. 000957]

Distribution :

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Pinnularia petersii*)

Site: mouth of Tagus River (Tagus Basin)

Reference: Del-Amo y Mora 1870 (as *Navicula petersii* Kutz.)

Navicula phyllepta Kützing 1844, p. 94; pl. 30, fig. 56 [CAS ref. 000595]

Distribution (Fig. 763):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Navicula phyllepta* Kützing)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula phyllepta* Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula phyllepta* Kützing)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Navicula phyllepta* Kützing)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula phyllepta* Kützing)

Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula phyllepta* Kützing)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula phyllepta* Kützing); Gil et al. 1991 (as *Navicula phyllepta*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula phyllepta* Kützing)

Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula phyllepta* Kützing)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula phyllepta* Kützing)

***Navicula placentula* var. *apiculata* Hustedt 1911**, p. 288; pl. 2, fig. 7
[CAS ref. 000492]

Distribution (Fig. 764):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula placentula* (Ehrenberg) Kützing var. *apiculata* Hustedt)

***Navicula pseudoarvensis* Hustedt 1942a**, p. 195; fig. 8-10 [CAS ref. 000517]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula pseudoarvensis* Hustedt)

***Navicula pseudobryophila* Hustedt 1942c**, p. 114 [CAS ref. 000516]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Navicula pseudobryophila* (Hustedt) Hustedt)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Not Specified

Site: Not Specified

Reference: Krammer & Lange-Bertalot 1986 (as *Navicula pseudobryophila* Hustedt)

Navicula pseudonivalis **W. Bock 1970**, p. 425; pl. 2, fig. 35 [CAS ref. 006540]

Distribution (Fig. 765):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Navicula pseudonivalis* Bock)

Navicula pseudoventralis **Hustedt in Schmidt 1936**, pl. 401, fig. 116-118 [CAS ref. 012519]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula pseudoventralis* Hustedt)

Navicula pupula **f. capitata (Hustedt) Hustedt 1957**, p. 282 [CAS ref. 000532]

Basionym: *Navicula pupula* var. *capitata* Hustedt 1930 [CAS ref. 000502]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Navicula pupula* Kütz. f. *capitata* Hustedt)

Navicula pupula var. *genuina* **Cleve & Grunow 1880**, p. 45 [CAS ref. 000241]

Distribution (Fig. 766):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Navicula pupula* v. *genuina* Grun.)

***Navicula pupula* f. *minuta* Grunow in Van Heurck 1880**, pl. 13, fig. 16 [CAS ref. 000895]

Distribution (Fig. 767):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Navicula pupula* Kuetz. forma *minuta*)

***Navicula radiosa* Kützing 1844**, p. 91; pl. 4, fig. 23 [CAS ref. 008595]

Distribution (Fig. 768):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Navicula radiosa*)
Subregion: Ave
Municipality: Guimarães (District: Braga)
Site: Rio Coelho
Reference: Zimmermann 1910 (as *Navicula radiosa* Kuetz.)
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Navicula radiosa* Kützing)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula radiosa* Kützing)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Navicula radiosa*)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Navicula radiosa*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Navicula radiosa*)

Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Navicula radiosa*)
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Navicula radiosa* Kütz)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Navicula radiosa* Kützing)
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Navicula radiosa*)
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Navicula radiosa* Kützing)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Navicula radiosa* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kützing); Gil et al. 1989-1990
(as *Navicula radiosa*)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula radiosa* Kützing)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula radiosa* Kützing)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula radiosa* Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kützing); Gil et al. 1989-1990
(as *Navicula radiosa*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula radiosa* Kützing)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)
Reference: Gil 1988 (as *Navicula radiosa* Kützing)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula radiosa*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kützing); Gil et al. 1989-1990
(as *Navicula radiosa*)

Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)

Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula radiosa* Kützing)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula radiosa* Kützing)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)

Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)

Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)

Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula radiosa* Kützing)

Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula radiosa* Kützing)

Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula radiosa* Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula radiosa* Kützing); Gil et al. 1989-1990 (as *Navicula radiosa*)

Site: Vagueira, Canal de Mira
 References: Resende et al. 2005 (as *Navicula radiosa*); Mendes et al. 2009 (as *Navicula radiosa*)

Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula radiosa* Kützing)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)

Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula radiosa* Kützing)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula radiosa* Kützing)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula radiosa*); Almeida 1998 (as *Navicula radiosa* Kützing)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula radiosa*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula radiosa* Kützing)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula radiosa* Kützing)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Navicula radiosa* Kützing)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Cubo
 Reference: Carvalho 1913 (as *Navicula radiosa* Kuetz.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula radiosa* Kuetz.)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Navicula radiosa* Kuetz.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula radiosa* Kuetz.); Santos & Carvalho 2001 (as *Navicula radiosa* Kuetz.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Navicula radiosa* Kuetz.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula radiosa* Kuetz.)
 Site: Vela
 Reference: Carvalho 1913 (as *Navicula radiosa* Kuetz.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Campo da Moita, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1910 (as *Navicula radiosa* Kuetz.)
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula radiosa*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula radiosa* Kützing)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula radiosa* Kützing)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula radiosa*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Navicula radiosa*)
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Navicula radiosa* Kütz.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula radiosa* Kütz.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula radiosa* Kütz.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula radiosa* Kütz.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula radiosa* Kütz.)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula radiosa*)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Runa, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Navicula radiosa*)
 Site: Santa Cruz
 Reference: Zimmermann 1909b (as *Navicula radiosa* Kuetz.)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula radiosa* Kützing)
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula radiosa*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula radiosa*)
Subregion: Pinhal Interior Sul
Municipality: Proença-a-Nova (District: Castelo Branco)
Site: Isna Stream (Tagus Basin)
Reference: Zimmermann 1910 (as *Navicula radiosa* Kuetz.)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Navicula radiosa*); Cerqueira da Silva et al. 1993 (as *Navicula radiosa*); Cerqueira da Silva 1994 (as *Navicula radiosa*)
Site: Not Specified
References: Calado 1990 (as *Navicula radiosa* Kützing); Gil et al. 1991 (as *Navicula radiosa*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula radiosa*)
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Navicula radiosa* Kütz., fossil)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Navicula radiosa* Kützing)
Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
Reference: Oliveira 1984a (as *Navicula radiosa*)
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Navicula radiosa*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Navicula radiosa*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)

- References: INIP 1977 (as *Navicula radiosa* Kütz); Fernandes et al. 1987 (as *Navicula radiosa*)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Navicula radiosa*)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula radiosa*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Navicula radiosa* Kütz); Fernandes et al. 1987 (as *Navicula radiosa*)
- Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 References: Oliveira 1984a (as *Navicula radiosa*); Coutinho 1990a (as *Navicula radiosa*)
- Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Navicula radiosa*)
- Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula radiosa*)
- Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula radiosa*)
- Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Navicula radiosa* Kütz., fossil)
- Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula radiosa*)
- REGION: ALGARVE**
 Subregion: Algarve
 Municipality: Lagos (District: Faro)
 Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Navicula radiosa*)
- Municipality: Silves (District: Faro)
 Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Navicula radiosa*)
- REGION: AUTONOMOUS REGION OF AZORES**
 Municipality: Horta (Faial Island)
 Site: Not Specified
 Reference: Johansson 1977 (as *Navicula radiosa* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa Grande
 Reference: Holmboe 1901 (as *Navicula radiosa* Kütz.)
 Site: Lagoa Pequena
 Reference: Holmboe 1901 (as *Navicula radiosa* Kütz.)
 Site: Lagoa das Sete Cidades
 Reference: Holmboe 1901 (as *Navicula radiosa* Kütz.)
 Municipality: Povoação (São Miguel Island)
 Site: Furnas
 References: Holmboe 1901 (as *Navicula radiosa* Kütz.); Mölder 1947 (as *Navicula radiosa* Kütz.)
 Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
 Reference: Holmboe 1901 (as *Navicula radiosa* Kütz.)
 Site: Lagoa das Furnas
 References: Holmboe 1901 (as *Navicula radiosa* Kütz.); Chaves 1908 (as *Navicula radiosa* Ktz.); Mölder 1947 (as *Navicula radiosa* Kütz.)
 Site: Pico da Vara
 References: Holmboe 1901 (as *Navicula radiosa* Kütz.); Mölder 1947 (as *Navicula radiosa* Kütz.)
 Site: Ribeira Quente
 Reference: Mölder 1947 (as *Navicula radiosa* Kütz.)
 Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Navicula radiosa* Ktz., fossil)
 Site: Tambores, Furnas
 Reference: Chaves 1908 (as *Navicula radiosa* Ktz., fossil)
 Municipality: Santa Cruz das Flores (Flores Island)
 Site: Not Specified
 Reference: Mölder 1947 (as *Navicula radiosa* Kütz.)
 Municipality: Not Specified
 Site: Faial Island
 Reference: Gonçalves et al. 2010 (as *Navicula radiosa* Kützing)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Navicula radiosa* Kützing)
 Site: São Jorge Island
 References: Johansson 1977 (as *Navicula radiosa* Kütz.); Gonçalves et al. 2010 (as *Navicula radiosa* Kützing)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Navicula radiosa* Kützing)
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Navicula radiosa* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
 Site: Curral dos Romeiros, João Gomes Stream
 Reference: Zimmermann 1909 (as *Navicula radiosa* Kuetz.)
 Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Navicula radiosa* Kütz.)
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Navicula radiosa* Kuetz.)
Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Navicula radiosa* Kütz.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Navicula radiosa* Kütz.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula radiosa* Kützing)

***Navicula radiosa* var. *acuta* (W. Smith) Grunow 1860**, p. 526 [CAS ref. 000427]

Basionym: *Pinnularia acuta* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 769):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula radiosa* Kuetz. var. *acuta* (W. Sm.) Grun.)
Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Castelo Novo, Alpreade Stream (Tagus Basin)
Reference: Zimmermann 1914 (as *Navicula radiosa* Kuetz. var. *acuta* (W. Sm.) Grun.)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Navicula radiosa* var. *acuta* (W. Smith) V. H.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Navicula radiosa* var. *acuta* (W. Smith) V. H.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula radiosa* Ktz. var. *acuta* Grün., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula radiosa* Ktz. var. *acuta* Grün., fossil)

***Navicula radiosa* var. *tenella* (Brébisson ex Kützing) Van Heurck 1885**, p. 84 [CAS ref. 001040]

Basionym: *Navicula tenella* Brébisson in Kützing 1849 [CAS ref. 000596]

Synonym: *Navicula cryptotenella* Lange-Bertalot in Krammer & Lange-Bertalot 1985 [CAS ref. 006263], according to Krammer & Lange-Bertalot 1986, p. 106

Distribution (Fig. 770):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula radiosa* v. *tenella*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)

Site: Raivo, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Municipality: Anadia (District: Aveiro)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula radiosa* v. *tenella*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula radiosa* v. *tenella*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula radiosa* v. *tenella*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula radiosa* Kütz. v. *tenella* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Navicula radiosa* v. *tenella*)

Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1909b (as *Navicula radiosa* Kuetz. var. *tenella* (Bréb.) Van Heurck)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula radiosa* Kütz. var. *tenella* (Brébisson) Grunow); Gil et al. 1991 (as *Navicula radiosa* v. *tenella*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Navicula tenella* Breb., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Navicula tenella* Breb., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Navicula radiosa* Kütz. var. *tenella* (Bréb.) Grun.); Bourrelly & Manguin 1946a (as *Navicula radiosa* Kütz. var. *tenella* (Bréb.) Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Navicula radiosa* Kütz. var. *tenella* (Bréb.) Grun.)

***Navicula radiosa* f. *intermedia* Manguin 1942**, p. 142; pl. 3, fig. 49
[CAS ref. 000623]

Distribution (Fig. 771):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Navicula radiosa* Kütz. fo. *intermedia* Manguin); Bourrelly & Manguin 1946a (as *Navicula radiosa* Kütz. fo. *intermedia* Manguin)

***Navicula radiosafallax* Lange-Bertalot 1993**, v. 27: p. 131-132; pl. 52, fig. 1-3, 7-14, Bacill. 2/4, fig. 67: 1-4 [CAS ref. 008467]

Distribution (Fig. 772):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula radiosafallax* Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula radiosafallax* Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula radiosafallax* Lange-Bertalot)

Site: Not Specified

References: Gonçalves 2008 (as *Navicula radiosafallax* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Not Specified

Site: Not Specified

References: Krammer & Lange-Bertalot 1991b (as *Navicula* species aff. *radiosafallax*)

***Navicula recens* (Lange-Bertalot) Lange-Bertalot in Krammer & Lange-Bertalot 1985, v. 9: p. 91; pl. 29, fig. 5, 6 [CAS ref. 006263]**

Basionym: *Navicula cari* var. *recens* Lange-Bertalot 1980b [CAS ref. 008466]

Distribution (Fig. 773):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula recens*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula recens* (Lange-Bertalot) Lange-Bertalot)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Navicula recens* (Lange-Bertalot) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula recens* (Lange-Bertalot) Lange-Bertalot)

***Navicula reichardtiana* Lange-Bertalot in Lange-Bertalot & Krammer 1989, p. 163-164; fig. 98: 19-27 [CAS ref. 006174]**

Distribution (Fig. 774):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula reichardtiana* Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula reichardtiana* Lange-Bertalot)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula reichardtiana* Lange-Bertalot)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula reichardtiana* Lange-Bertalot)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula reichardtiana* Lange-Bertalot)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula reichardtiana* Lange-Bertalot)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula reichardtiana* Lange-Bertalot)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula reichardtiana* Lange-Bertalot)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula reichardtiana* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula reichardtiana* Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula reichardtiana* Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula reichardtiana* Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula reichardtiana* Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula reichardtiana* Lange-Bertalot var. *reichardtiana*)

***Navicula rhynchocephala* Kützing 1844**, pl. 30, fig. 35 [CAS ref. 000595]

Distribution (Fig. 775):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Oliveira de Azeméis (District: Aveiro)
Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Navicula rhynchocephala* Kützing)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Navicula rhynchocephala* Kützing); Nunes 2007 (as *Navicula rhynchocephala* Kützing)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (*Navicula rhynchocephala* Kützing)
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: Abrantes et al. 2006 (as *Navicula rhynchocephala*)

Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Oliveira 1971a (as *Navicula rhynchocephala*)

Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula rhynchocephala* Kützing)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*); Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Navicula rhynchocephala* Kützing)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula rhynchocephala* Kützing)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Navicula rhynchocephala* Kützing); Ferreira da Silva et al. 2009 (as *Navicula rhynchocephala* Kützing)

Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)
 Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)
 Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
 Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)

Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula rhynchocephala*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula rhynchocephala* Kützing)

Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula rhynchocephala* Kützing)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (*Navicula rhynchocephala* Kützing)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Guarda
Reference: Zimmermann 1914 (as *Navicula rhynchocephala* Kuetz.)

Subregion: Beira Interior Sul
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula rhynchocephala* Kützing)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula rhynchocephala*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula rhynchocephala* Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula rhynchocephala* Kützing); Gil et al. 1989-1990 (as *Navicula rhynchocephala*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)

Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
References: Zimmermann 1909b (as *Navicula rhynchocephala* Kuetz.);
Oliveira & Caldas 1970 (as *Navicula ryncocephala* Kütz)

Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (*Navicula rhynchocephala* Kützing)

Subregion: Not Specified

Municipality: Not Specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Navicula rhynchocephala*)
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Navicula ryncocephala*);
Cerqueira da Silva et al. 1993 (as *Navicula rhyncocephala*)
Site: Not Specified
References: Calado 1990 (as *Navicula rhynchocephala* Kützing); Gil et al. 1991 (as *Navicula rhynchocephala*); Almeida & Gil 2001 (*Navicula rhynchocephala* Kützing)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Navicula rhynchocephala*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula rhynchocephala*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula rhynchocephala*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula rhynchocephala*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Navicula rhynchocephala* Kütz.)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996
Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Navicula rhynchocephala* Kütz.)
Municipality: Corvo (Corvo Island)
Site: Not Specified
Reference: Mölder 1947 (as *Navicula rhynchocephala* Kütz.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Holmboe 1901 (as *Navicula rhynchocephala* Kütz.)
Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Navicula rhynchocephala* Kütz.)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Navicula rhynchocephala* Kütz.)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Navicula rhynchocephala* Ktz.); Mölder 1947 (as *Navicula rhynchocephala* Kütz.)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Navicula rhynchocephala* Kütz.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Navicula rhynchocephala* Kütz.); Bourrelly & Manguin 1946a (as *Navicula rhynchocephala* Kütz.)
Site: Ribeira Grande
References: Manguin 1942 (as *Navicula rhynchocephala* Kütz.); Bourrelly & Manguin 1946a (as *Navicula rhynchocephala* Kütz.)
Site: Not Specified
Reference: Mölder 1947 (as *Navicula rhynchocephala* Kütz.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Navicula rhynchocephala* Kütz.); Bourrelly & Manguin 1946a (as *Navicula rhynchocephala* Kütz.)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Navicula rhynchocephala* Kützing)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula rhynchocephala* Kützing)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Navicula rhynchocephala* Kützing)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Navicula rhynchocephala* Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula rhynchocephala* Kützing)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Navicula rhynchocephala* Kützing)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula rhynchocephala* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Navicula rhynchocephala* Kütz.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Navicula rhynchocephala*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula rhynchocephala* Kützing)

***Navicula rhynchocephala* var. *dubia* Grunow 1860**, p. 529; pl. 2, fig. 32, (pl. 4, fig. 32) [CAS ref. 000427]

Distribution (Fig. 776):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Torre, Ocreza River (Tagus Basin)
Reference: Zimmermann 1914 (as *Navicula rhynchocephala* Kuetz. var. *dubia* Grun.)

***Navicula rhynchocephala* var. *elongata* Grunow 1860**, p. 529; pl. 2, fig. 31a, (pl. 4, fig. 31a) [CAS ref. 000427]

Distribution (Fig. 777):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula rhynchocephala* Kütz. v. *elongata* Mayer)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula rhynchocephala* Kütz. v. *elongata* Mayer)

***Navicula rostellata* Kützing 1844**, p. 95; pl. 3, fig. 65 [CAS ref. 000595]

Nomenclatural synonyms: *Navicula rhynchocephala* (*rhynchocephala*) var. *rostellata* (Kützing) Cleve & Grunow 1880 [CAS ref. 000241]
Navicula viridula var. *rostellata* (Kützing) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 778):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* Kützing Cleve)

REGION: CENTRO

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula viridula* v. *rostellata* (Kütz.) Cleve);
Gil et al. 1989-1990 (as *Navicula viridula* v. *rostellata*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Navicula viridula* v. *rostellata*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* Kützing Cleve)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* Kützing Cleve)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* Kützing Cleve)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* Kützing Cleve)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)

- Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula viridula* v. *rostellata* (Kütz.) Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula viridula* v. *rostellata* (Kütz.) Cleve)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)
- Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)
- Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*); Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula viridula* v. *rostellata*)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg var. *rostellata* (Kützing) Cleve)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfrazes

- Reference: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.); Santos & Carvalho 2001 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Site: Vela
 Reference: Carvalho 1913 (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Outeiro do Bispo
 Reference: Zimmermann 1909b (as *Navicula rhynchocephala* Kuetz. var. *rostellata* (Kuetz.?) Grun.)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Navicula viridula* var. *rostellata* (Kützing) Cleve)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Navicula viridula* Kütz. var. *rostellata* (Kützing) Cleve); Gil et al. 1991 (as *Navicula viridula* v. *rostellata*)
 REGION: ALENTEJO
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Forte, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Navicula viridula* (Kütz.) Ehr. var. *rostellata* (Kütz.) Cleve = *Navicula rostellata* Kützing)

Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula viridula* (Kütz.) Ehr. var. *rostellata* (Kütz.) Cleve = *Navicula rostellata* Kützing)

Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula viridula* (Kütz.) Ehr. var. *rostellata* (Kütz.) Cleve = *Navicula rostellata* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Navicula rostellata* Kütz.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula rostellata* Kützing)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Navicula rostellata* Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula rostellata* Kützing)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula viridula* var. *rostellata* (Kützing) Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula viridula* (Kütz.) Ehr. var. *rostellata* (Kütz.) Cleve)

***Navicula rotaeana* (Rabenhorst) Grunow in Van Heurck 1880, pl. 14, fig. 17 [CAS ref. 000895]**

Basionym: *Stauroneis rotaeana* Rabenhorst 1856 [CAS ref. 002349]

Distribution (Fig. 779):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun.)

Site: Meios

References: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun.); Santos & Carvalho 2001 (as *Navicula rotaeana* (Rabenh.) Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Navicula rotaeana* (Rabh.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Navicula rotaeana* (Rabh.) Grun.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula rotaeana* (Rabenhorst) Grunow)

***Navicula rotaeana* f. *minor tenuistriata* Grunow in Van Heurck 1880, pl. 14, fig. 19 [CAS ref. 000895]**

Distribution (Fig. 780):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun. forma *minor, tenuistriata*)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun. forma *minor, tenuistriata*)

***Navicula rotaeana* var. *oblongella* Grunow in Van Heurck 1880, pl. 14, fig. 21 [CAS ref. 000895]**

Distribution (Fig. 781):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun. var. *oblongella* Grun.); Santos & Carvalho 2001 (as *Navicula rotaeana* (Rabenh.) Grun. var. *oblongella* Grun.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun. var. *oblongella* Grun.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun. var. *oblongella* Grun.)

Site: Meios

References: Carvalho 1913 (as *Navicula rotaeana* (Rabenh.) Grun. var. *oblongella* Grun.); Santos & Carvalho 2001 (as *Navicula rotaeana* (Rabenh.) Grun. var. *oblongella* Grun.)

***Navicula rotunda* Hustedt 1945**, p. 916; pl. 41, fig. 29 [CAS ref. 000518]

Distribution (Fig. 782):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Navicula rotunda* Hustedt)

Municipality: Not Specified

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Navicula rotunda* Hustedt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula rotunda* Hustedt)

***Navicula rupestris* O'Meara 1875**, p. 347; pl. 30, fig. 17 [CAS ref. 000694]

Distribution (Fig. 783):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Navicula rupestris* O'Meara)

***Navicula salinarum* Grunow 1880**, p. 33; pl. 2, fig. 34 [CAS ref. 009613]

Distribution (Fig. 784):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula salinarum* Grunow in Cleve & Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula salinarum* Grunow)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula salinarum* Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Navicula salinarum* Grunow)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula salinarum* Grunow in Cleve et Grunow var. *salinarum*)

***Navicula salinarum* var. *rostrata* (Hustedt) Lange-Bertalot 2001**, p. 65 609 [CAS ref. 009456]

Basionym: *Navicula digitoradiata* var. *rostrata* Hustedt 1939 [CAS ref. 000514]

Distribution (Fig. 785):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula digitoradiata* (Gregory) Ralfs var. *rostrata* Hustedt)

***Navicula schadei* Krasske 1929**, p. 355; fig. 11a-b [CAS ref. 000582]

Synonym: *Navicula globosa* F. Meister 1935 [CAS ref. 000645], according to Krammer & Lange-Bertalot 1986, p.199

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Navicula shadei* Krasske)

***Navicula schroeteri* F. Meister 1932**, p. 38; fig. 100 [CAS ref. 000644]

Synonym: *Navicula simulata* Manguin 1942 [CAS ref. 000623], according to Krammer & Lange-Bertalot 1986, p. 115

Distribution (Fig. 786):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Navicula schroeteri* Meister)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula schroeteri*); Almeida 1998 (as *Navicula schroeterii* Meister)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula schroeterii* Meister)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula schroeterii* Meister)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula schroeterii* Meister)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula schroeteri*); Almeida 1998 (as *Navicula schroeterii* Meister)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula schroeteri*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula schroeterii* Meister)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula schroeterii* Meister); Almeida & Gil 2001 (as *Navicula schroeterii* Meister)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Navicula schroeteri* Meister)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula schroeteri* Meister)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula schroeteri* Meister)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula schroeteri* Meister var. *schroeteri*)

***Navicula schroeteri* F. Meister var. *symmetrica* (R.M. Patrick)
Lange-Bertalot 1991, p. 394; pl. 73, figs 4-5 [CAS ref. 006521]**

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula schroeteri* Meister var. *symmetrica* (Patrick) Lange-Bertalot)

***Navicula seriens* Brébisson in Kützing 1844**, p. 92; pl. 30, fig. 23
[CAS ref. 000595]

Distribution (Fig. 787):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula seriens* (Bréb.) Kuetz.)

Subregion: Minho-Lima

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1910 (as *Navicula seriens* (Bréb.) Kuetz.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço

Reference: Zimmermann 1909a (as *Navicula seriens* (Bréb.) Kuetz.)

***Navicula seriens* var. *minima* Grunow in Van Heurck 1880**, pl. 12,
fig. 9 [CAS ref. 000895]

Distribution:

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

References: Zimmermann 1910 (as *Navicula seriens* (Bréb.) Kuetz. var. *minima* Grun.); Sampaio 1950 (as *Navicula seriens* (Bréb.) Kütz. var. *minima* Grun.)

***Navicula simplex* Krasske 1925**, p. 51; pl. 2, fig. 33 [CAS ref. 000580]

Synonyms: *Navicula halophila* (Grunow in Van Heurck) Cleve 1894 [CAS ref. 000232], according to Krammer & Lange-Bertalot 1986, p.126

Navicula halophila var. *subcapitata* Østrup 1910 [CAS ref. 000706], according to Krammer & Lange-Bertalot 1986, p.126

Navicula halophila f. *robusta* Hustedt 1959b [CAS ref. 002276], according to Krammer & Lange-Bertalot 1986, p.126

Distribution (Fig. 788):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula simplex* Krasske)

***Navicula simulata* Manguin 1942**, p. 142; pl. 3, fig. 50 [CAS ref. 000623]

Synonym: *Navicula schroeteri* F. Meister 1932 [CAS ref. 000644], according to Krammer & Lange-Bertalot 1986, p. 115

Distribution (Fig. 789):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Navicula simulata* Manguin); Bourrelly &

Manguin 1946a (as *Navicula simulata* Manguin)

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Navicula simulata* Manguin)

***Navicula slesvicensis* Grunow in Van Heurck 1880**, pl. 7, fig. 28, 29 [CAS ref. 000895]

Nomenclatural synonym: *Navicula viridula* var. *slesvicensis* (Grunow) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 790):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula viridula* Kuetz. var. *slesvicensis* (Grun.)); Santos & Carvalho 2001 (as *Navicula viridula* Kuetz. var. *slesvicensis* (Grun.))

Navicula smithii Brébisson 1854, p. 253 [CAS ref. 000157]

Distribution (Fig. 791):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula Smithii* Breb., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula smithii* Breb., fossil)

Navicula stankovici Hustedt 1945, p. 926; pl. 42, fig. 9-11 [CAS ref. 000518]

Distribution (Fig. 792):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula stankovicii* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula stankovicii* Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001 (as *Navicula stankovicii* Hustedt)

Navicula stauroptera var. *parva* (Ehrenberg) Van Heurck 1885, p. 78 [CAS ref. 001040]

Basionym: *Stauroneis parva* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 793):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

- Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Caldeirão
References: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.); Santos & Carvalho 2001 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Cubo
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Diz River
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Guarda
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Meios
References: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.); Santos & Carvalho 2001 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.); Santos & Carvalho 2001 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Porto da Carne
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Vela
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun. var. *parva* Grun.)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Santa Cruz
Reference: Zimmermann 1910 (as *Navicula stauroptera* Grun. var. *parva* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Navicula stauroptera* var. *parva* Grun.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula stauroptera* var. *parva* Grun.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula stauroptera* var. *parva* Grun., fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Tanque nos Estanquinhos

Reference: Zimmermann 1910-1911 (as *Navicula stauroptera* Grun. var. *parva* Grun.)

***Navicula striolata* (Grunow) Lange-Bertalot in Reichardt 1984, p. 56 [CAS ref. 008697]**

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula striolata* (Grun.) Lange-Bertalot)

***Navicula subrotundata* Hustedt 1945, p. 917; fig. 30-33 [CAS ref. 000518]**

Distribution (Fig. 794):

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Navicula subrotundata* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula subrotundata*)

Municipality: Not Specified

Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Navicula subrotundata* Hustedt)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula subrotundata* Hustedt)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Navicula subrotundata* Hustedt)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula subrotundata* Hustedt)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Navicula subrotundata* Hustedt)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula subrotundata* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula subrotundata* Hustedt)

***Navicula tabellaria* var. *stauroneiformis* Van Heurck 1880**, pl. 6, fig. 8 [CAS ref. 000895]

Distribution (Fig. 795):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula tabellaria* Kuetz. var. *stauroneiformis*); Santos & Carvalho 2001 (as *Navicula tabellaria* Kuetz. var. *stauroneiformis*)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula tabellaria* Kuetz. var. *stauroneiformis*); Santos & Carvalho 2001 (as *Navicula tabellaria* Kuetz. var. *stauroneiformis*)

***Navicula tantula* Hustedt 1934**, p. 162 [CAS ref. 001708]

Synonyms: *Navicula minima* Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 229

Navicula minima var. *atomoides* (Grunow in Van Heurck) Cleve 1894 [CAS ref. 000232], according to Krammer & Lange-Bertalot 1986, p. 229

Distribution (Fig. 796):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tantula* Hustedt)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tantula* Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tantula* Hustedt)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tantula* Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tantula* Hustedt)

***Navicula tenelloides* Hustedt 1937a**, p. 269; pl. 19, fig. 13 [CAS ref. 001012]

Distribution (Fig. 797):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula tenelloides* Hustedt)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)

- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula tenelloides*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula tenelloides*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula tenelloides*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula tenelloides*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula tenelloides* Hustedt)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula tenelloides*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula tenelloides* Hustedt)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula tenelloides* Hustedt)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)

Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula tenelloides* Hustedt)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Navicula tenelloides* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula tenelloides*)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Navicula tenelloides*)
Site: Tanque
Reference: Azevedo et al. 2005 (as *Navicula tenelloides*)

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Navicula tenelloides* Hustedt)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Navicula tenelloides* Hustedt)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula tenelloides* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula tenelloides* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula tenelloides* Hustedt)

***Navicula termes* (Ehrenberg) O'Meara 1875**, p. 353; pl. 30, fig. 35
[CAS ref. 000694]

Distribution (Fig. 798):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula termes* Ehr.)

***Navicula tridentula* Krasske 1923a**, p. 198; fig. 1 [CAS ref. 000579]

Distribution (Fig. 799):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula tridentula* Krasske)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Navicula tridentula*)

Navicula tripunctata (O.F. Müller) Bory 1827, p. 563 [CAS ref. 011536]

Basionym: *Vibrio tripunctatus* O.F. Müller 1786 [CAS ref. 000679]

Synonym: *Navicula gracilis* Ehrenberg 1832a [CAS ref. 000281], according to Krammer & Lange-Bertalot 1986, p. 95

Distribution (Fig. 800):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula tripunctata* (O. Müller) Bory)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula tripunctata* (O. Müller) Bory)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula tripunctata* (O. Müller) Bory)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula tripunctata*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula tripunctata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Navicula tripunctata* (O.F. Müller) Bory)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Navicula tripunctata* (O.F. Müller) Bory)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula tripunctata* (O.F. Müller) Bory)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula tripunctata* (O.F. Müller) Bory)

Navicula trivialis Lange-Bertalot 1980b, p. 31; pl. 1, fig. 5-9, pl. 9, fig. 1-2 [CAS ref. 008466]

Distribution (Fig. 801):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Navicula trivialis* Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Navicula trivialis* Lange-Bertalot);
Nunes 2007 (as *Navicula trivialis* Lange-Bertalot)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Navicula trivialis*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula trivialis* Lange-Bertalot)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula trivialis* Lange-Bertalot)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula trivialis* Lange-Bertalot); Almeida
1998 (as *Navicula trivialis* Lange-Bertalot)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula trivialis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula trivialis*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula trivialis*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula trivialis*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula trivialis*); Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula trivialis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
 Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula trivialis*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula trivialis*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula trivialis*); Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula trivialis*)
 Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula trivialis* Lange-Bertalot)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Navicula trivialis* Lange-Bertalot)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula trivialis* Lange-Bertalot)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula trivialis* Lange-Bertalot); Gil et al. 1991 (as *Navicula trivialis*); Almeida & Gil 2001 (as *Navicula trivialis* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Navicula trivialis* Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula trivialis* Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Navicula trivialis* Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula trivialis* Lange-Bertalot var. *trivialis*)

***Navicula tumida* W. Smith 1853**, p. 53; pl. 17, fig. 146 [CAS ref. 000863]

Distribution (Fig. 802):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula tumida* Sm.)

***Navicula tuscula f. minor* Simonsen 1962**, p. 73 [CAS ref. 000825]

Distribution (Fig. 803):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula tuscula* fo. *minor*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula tuscula* fo. *minor*)

Formatada: Portugal
(Portugal)

Código de campo a

Formatada: Portugal
(Portugal)

***Navicula twymaniana* R.E.M. Archibald 1966**, p. 264; fig. 41-43
[CAS ref. 003383]

Synonym: *Navicula molestiformis* Hustedt 1949 [CAS ref. 000521], according to
Krammer & Lange-Bertalot 1986, p. 130

Distribution (Fig. 804):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula twymaniana* Archibald)

***Navicula unica* Salah & G. Tamás 1968**, p. 234; pl. 3, fig. 1-6, pl. 5, fig. 3 [CAS ref. 008751]

Distribution (Fig. 805):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula unica* Salah)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula unica* Salah)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula unica* Salah)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula unica* Salah)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula unica* Salah)

***Navicula upsaliensis* (Grunow in Van Heurck) Peragallo 1903**, p. 642 [CAS ref. 001463]

Basionym: *Navicula menisculus* var. *upsaliensis* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Navicula menisculus* Schumann var. *upsaliensis* Grunow)

Navicula veneta Kützing 1844, p. 95; pl. 30, fig. 76 [CAS ref. 000595]

Nomenclatural synonym: *Navicula cryptocephala* var. *veneta* (Kützing) Rabenhorst 1864 [CAS ref. 000775]

Distribution (Fig. 806):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Navicula veneta* Kützing); Nunes 2007 (as *Navicula veneta* Kützing)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula veneta* Kützing)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Navicula veneta* Kützing); Nunes 2007 (as *Navicula veneta* Kützing)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula veneta* Kützing)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula veneta* Kützing)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula veneta* Kützing)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula veneta* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula veneta* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula veneta* Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula veneta* Kützing)

- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula veneta* Kützing)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula veneta*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula veneta* Kützing)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula veneta* Kützing)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula veneta* Kützing)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula veneta* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Navicula veneta* Kützing); Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Navicula veneta* Kützing); Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Navicula veneta* Kützing); Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Navicula veneta* Kützing); Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Navicula veneta* Kützing); Nunes 2007 (as *Navicula veneta* Kützing); Ferreira da Silva et al. 2009 (as *Navicula veneta* Kützing)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula veneta*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula veneta*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula veneta*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula veneta*); Almeida 1998 (as *Navicula veneta* Kützing)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula veneta*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Navicula veneta* Koetzing)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula veneta* Kützing)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula veneta* Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula veneta* Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula veneta* Kützing)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula veneta* Kützing)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula veneta*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula veneta*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula veneta*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula veneta* Kützing)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula veneta* Kützing)
 Site: Perrães, Cértima River (Vouga Basin)

- References: Rino & Gil 1989 (as *Navicula veneta*); Almeida 1998 (as *Navicula veneta* Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula veneta*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula veneta* Kützing)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula veneta* Kützing)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Navicula veneta* Kützing)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula veneta* Kützing)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula veneta* Kützing)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula veneta* Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula veneta* Kützing); Gil et al. 1989-1990 (as *Navicula veneta*)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Navicula veneta* Kützing)
- Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified
References: Calado 1990 (as *Navicula veneta* Kützing); Gil et al. 1991 (as *Navicula veneta*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula veneta* Kützing)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula veneta* Kützing)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Navicula veneta* Kützing)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Navicula cryptocephala* var. *veneta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.)

Municipality: Corvo (Corvo Island)

Site: Not Specified

Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula veneta*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula veneta*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Navicula veneta*)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.); Bourrelly & Manguin 1946a (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Navicula veneta* Kützing)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula veneta* Kützing)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Navicula veneta* Kützing)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Navicula veneta* Kützing)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Navicula veneta* Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula veneta* Kützing)

Site: Terceira Island

References: Johansson 1977 (as *Navicula cryptocephala* cfr. v. *veneta* (Kütz.) Grun.); Gonçalves et al. 2010 (as *Navicula veneta* Kützing)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula veneta* Kützing)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Navicula cryptocephala* Kütz. var. *veneta* (Kütz.) Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula veneta* Kützing)

***Navicula ventricosa* Ehrenberg 1830, p. 67 [CAS ref. 001999]**

Distribution (Fig. 807):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde
Reference: Zimmermann 1910 (as *Navicula ventricosa* Ehr.)

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Caldeirão
References: Carvalho 1913 (as *Navicula ventricosa* (Ehr.?) Donk.);
Santos & Carvalho 2001 (as *Navicula ventricosa* (Ehr.?) Donk.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula ventricosa* (Ehr.?) Donk.)

***Navicula viridula* (Kützing) Kützing 1844**, p. 91 [CAS ref. 000595]

Basionym: *Frustulia viridula* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 808):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Navicula viridula* (Kützing) Ehrenberg)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Navicula viridula* (Kützing) Ehrenberg)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Navicula viridula* (Kützing) Ehrenberg)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula viridula* Kützing)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula viridula* Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula viridula* Kützing)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula viridula* Kützing)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula viridula* Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula viridula* Kützing)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula viridula*); Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula viridula* Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula viridula* Kützing); Gil et al. 1989-1990 (as *Navicula viridula*)

Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Navicula viridula*)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg)

Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula viridula*); Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg)

Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula viridula*)

Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula viridula* (Kützing) Ehrenberg)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Navicula viridula* Kützing)

Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Navicula viridula*)

Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula viridula* Kützing)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula viridula* Kützing)

Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula viridula* (?))
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Navicula viridula*)
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Zimmermann 1909b (as *Navicula viridula* ? Kuetz.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula viridula* Kütz.)

Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula viridula*)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula viridula*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula viridula*)

Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Navicula viridula* (Kützing) Ehrenberg)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Navicula viridula* Kützing); Gil et al. 1991
 (as *Navicula viridula*)

REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula viridula*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Navicula viridula*); Oliveira 1987 (as *Navicula viridula* Kz.)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Navicula viridula* Kützing)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Navicula viridula*)

Municipality: Not Specified

Site: Sado River (Sado Basin)

Reference: Monteiro et al. 1995 (as *Navicula viridula*)

Subregion: Alto Alentejo

Municipality: Castelo de Vide (District: Portalegre)

Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Navicula viridula*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Navicula viridula* Kütz.)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Navicula viridula*)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Navicula viridula* Kütz.); Fernandes et al. 1987 (as *Navicula viridula* (?))

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Navicula viridula*)

Subregion: Baixo Alentejo

Municipality: Ferreira do Alentejo (District: Beja)

Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Navicula viridula*)

Municipality: Ourique (District: Beja)

Site: Monte da Rocha Reservoir, Sado River (Sado Basin)

Reference: Oliveira 1984a (as *Navicula viridula*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula viridula* (?))

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Navicula viridula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Navicula viridula* Kütz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula viridula* (Kützing) Ehrenberg)

Site: Not Specified

Reference: Gonçalves 2008 (as *Navicula viridula* (Kützing) Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Not Specified

Site: Not Specified

Reference: Krammer & Lange-Bertalot 1991b (as *Navicula viridula* complex)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula viridula* (Kützing) Ehrenberg)

***Navicula viridula* f. *minor* Grunow in Van Heurck 1880**, pl. 7, fig. 26 [CAS ref. 000895]

Distribution (Fig. 809):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula viridula* Kuetz. forma *minor*);

Santos & Carvalho 2001 (as *Navicula viridula* Kuetz. fa. *minor*)

***Navicula vitrea* Krasske 1929**, p. 374; fig. 14 [CAS ref. 000582]

Distribution (Fig. 810):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula vitrea* Krasske); Gil et al. 1989-1990 (as *Navicula vitrea*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula vitrea* Krasske); Gil et al. 1989-1990 (as *Navicula vitrea*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula vitrea* Krasske); Gil et al. 1989-1990 (as *Navicula vitrea*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula vitrea* Krasske)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula vitrea*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula vitrea* Krasske)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula vitrea* Krasske); Gil et al. 1989-1990
(as *Navicula vitrea*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Navicula vitrea* Krasske)

***Navicula vulpina* Kützing 1844**, p. 92; pl. 3, fig. 43 [CAS ref. 000595]

Distribution (Fig. 811):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Navicula vulpina* Kütz., fossil)

***Navicula wiesneri* Lange-Bertalot 1993**, p. 140-141; pl. 41, fig. 23-37, pl. 42, fig. 3-6 [CAS ref. 008467]

Distribution (Fig. 812):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Navicula wiesneri* Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Navicula wiesneri* Lange-Bertalot)

***Navicula* sp.**

Distribution (Fig. 813):

REGION: NORTE
Subregion: Alto Trás-os-Montes

- Municipality: Bragança (District: Bragança)
 Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)
 Reference: Geraldès & Boavida 2005 (as *Navicula* sp.)
- Municipality: Montalegre (District: Vila Real)
 Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)
 References: Oliveira 1982a (as *Navicula* spp.); Oliveira et al. 1985 (as *Navicula* spp.)
 Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
 References: Oliveira 1982a (as *Navicula* spp.); Oliveira 1985 (as *Navicula* spp.)
- Subregion: Ave
 Municipality: Fafe (District: Braga)
 Site: Travassós, Vizela River (Ave Basin)
 Reference: Fidalgo 1990 (as *Navicula* spp.)
- Municipality: Vieira do Minho (District: Braga)
 Site: Salamonde Reservoir, Cávado River (Cávado Basin)
 References: Oliveira 1982a (as *Navicula* spp.); Oliveira 1985 (as *Navicula* spp.)
- Subregion: Cávado
 Municipality: Barcelos (District: Braga)
 Site: Barcelos, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Navicula* sp.)
 Site: Manhente, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Navicula* sp.)
- Municipality: Braga (District: Braga)
 Site: Padim da Graça, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Navicula* sp.)
- Municipality: Esposende (District: Braga)
 Site: Marachão, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Navicula* sp.)
- Municipality: Not Specified
 Site: Entrepontes, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Navicula* sp.)
 Site: Homem River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Navicula* sp.)
- Subregion: Douro
 Municipality: Armamar (District: Viseu)
 Site: Queimadela, Vizela River (Ave Basin)
 Reference: Fidalgo 1990 (as *Navicula* spp.)
- Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Seixas, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula* sp.)
- Municipality: Melgaço (District: Viana do Castelo)
 Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula* sp.)

- Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula* sp.)
- Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
 Site: Barragem de Covas, Coura River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Navicula* sp.)
- Municipality: Not Specified
 Site: Lima River (Lima Basin)
 Reference: Cerqueira da Silva 1990 (as *Navicula* sps.)
- Subregion: Tâmega
 Municipality: Marco de Canavezes (District: Porto)
 Site: Torrão Reservoir, Tâmega River (Douro Basin)
 Reference: Branco & Guimarães 1991 (as *Navicula* sp.)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Ave Reservoirs, Ave River (Ave Basin)
 References: Branco et al., 1991a (as *Navicula* sp.); Branco et al. 1991b (as *Navicula* sp.)
 Site: Neiva River (Neiva Basin)
 Reference: Cerqueira da Silva & Cunha 1992 (as *Navicula* sp.)
- REGION: CENTRO
- Subregion: Baixo Mondego
 Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Oliveira 1971a (as *Navicula* spp.)
- Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Navicula* sp.)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula* spp.)
 Site: Fratel, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Navicula* spp.)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Navicula* spp.); Brito & Andrade 1992 (as *Navicula* spp.)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Navicula* sp.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula* sp.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)

- Reference: Oliveira & Caldas 1971 (as *Navicula* sp.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula* sp.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Navicula* sp.)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Navicula* spp.)
 Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Navicula* spp.)
- Subregion: Oeste
 Municipality: Alenquer (District: Lisboa)
 Site: Alenquer, Alenquer Reservoir
 Reference: Frade 1941b (as *Navicula* sp.)
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Navicula* spp.)
 Site: Runa, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Navicula* spp.)
 Site: Varatojo, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Navicula* spp.)
- Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula* spp.)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula* spp.)
- Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula* spp.)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva et al. 1993 (as *Navicula* sp.); Cerqueira da Silva 1994 (as *Navicula* sp.)
- REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Navicula* spp.)
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 References: Rodrigues & Moita 1979a (as *Navicula* spp.); Rodrigues & Moita 1979b (as *Navicula* spp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984a (as *Navicula* spp.); Oliveira 1987 (as *Navicula* spp.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

Reference: Andrade & Brito 1995 (as *Navicula* sp.)

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

References: Oliveira 1984a (as *Navicula* spp.); Oliveira 1987 (as *Navicula* spp.)

Municipality: Not Specified

Site: Sado River (Sado Basin)

Reference: Monteiro et al. 1995 (as *Navicula* spp.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Navicula* spp.)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Navicula* sp.); Fernandes et al. 1987 (as *Navicula* spp.)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Navicula* spp.)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula* spp.)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Navicula* sp.); Fernandes et al. 1987 (as *Navicula* spp.)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Navicula* sp.)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

References: Oliveira 1976 (as *Navicula* sp.); Oliveira 1984a (as *Navicula* spp.)

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Navicula* sp.)

Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Navicula* spp.); Oliveira et al. 1989 (as *Navicula* spp.)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula* spp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Navicula* spp.); Brito & Andrade 1992 (as *Navicula* spp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula* spp.)

REGION: ALGARVE

Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Navicula* spp.)
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
References: Oliveira 1984a (as *Navicula* spp.); Oliveira 1987 (as *Navicula* spp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Cool spring near Lagoa das Furnas
Reference: Moseley 1874 (as *Navicula* sp.)
Site: Lagoa das Furnas
Reference: Rodrigues et al. 1995 (as *Navicula* spp.)
Municipality: Not Specified
Site: Not Specified
References: Gonçalves 2008 (as *Navicula* sp.); Gonçalves 2008 (as *Navicula* sp.1 cf. *Chamaepinnularia evanida* (Hustedt) L-Bertalot); Gonçalves 2008 (as *Navicula* sp.9 cf. *Naviculadicta vitabunda* (Hustedt) Lange-Bertalot); Gonçalves 2008 (as *Navicula* sp.6 cf. *Navicula utermoehlii* Hustedt)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Navicula* spp.)

Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula* sp.)

***Naviculadicta* Lange-Bertalot in Lange Bertalot &
Moser 1994, p. 83 [CAS ref. 006662]**

***Naviculadicta digitulus* (Hustedt) Lange-Bertalot 1996, p. 84 [CAS
ref. 007048]**

Basionym: *Navicula digitulus* Hustedt 1943 [CAS ref. 001708]

Distribution (Fig. 814):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta digitulus* Lange-
Bertalot)

***Naviculadicta vaucheriae* (J.B. Petersen) Lange-Bertalot 1994, p.
83 [CAS ref. -]**

Basionym: *Navicula vaucheriae* J.B. Petersen 1915 [CAS ref. 002342]

Distribution (Fig. 815):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula vaucheriae*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta vaucheriae* (Petersen) Lange-Bertalot)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta vaucheriae* (Petersen) Lange-Bertalot)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta vaucheriae* (Petersen) Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta vaucheriae* (Petersen) Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Naviculadicta vaucheriae* (Petersen) Lange-Bertalot)

***Naviculadicta vitabunda* (Hustedt) Lange-Bertalot in Lange-Bertalot & Moser 1994**, p. 88-89; pl. 52, fig. 17, ?18 [CAS ref. 006662]

Basionym: *Navicula vitabunda* Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 816):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula vitabunda* Hustedt)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula vitabunda* Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula vitabunda* Hustedt)
Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified
Reference: Calado 1990 (as *Navicula vitabunda* Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula vitabunda* Hustedt)

***Navicymbula* Krammer 2003,**
p. 123, 166 [CAS ref. 011692]

***Navicymbula pusilla* (Grunow in A. Schmidt) Krammer 2003,** p.
124 [CAS ref. 011692]

Basionym: *Cymbella pusilla* Grunow in Schmidt 1875b [CAS ref. 012443]

Distribution (Fig. 817):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Cymbella pusilla* Grun.)
Municipality: Not Specified
Site: Pico Island
References: Johansson 1977 (as *Cymbella pusilla* Grun.); Gonçalves et al.
2010 (as *Navicymbula pusilla* Krammer)

***Neidium* Pfitzer 1871,** p. 39
[CAS ref. 000754]

***Neidium affine* (Ehrenberg) Pfitzer 1871,** p. 39 [CAS ref. 000754]

Basionym: *Navicula affinis* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Navicula iridis* var. *affinis* (Ehrenberg) O'Meara 1875
[CAS ref. 000694]

Distribution (Fig. 818):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Neidium affine*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Neidium affine*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Neidium affine*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Neidium affine*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Neidium affine*)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Neidium affine* (Ehrenberg) Pfitzer)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*); Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Neidium affine*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Municipality: Anadia (District: Aveiro)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Neidium affine*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Neidium affine*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)

- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Neidium affine*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Caldeirão
References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *affinis* (Ehr.)); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *affinis* (Ehr.))
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *affinis* (Ehr.))
- Site: Vela
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *affinis* (Ehr.))
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer); Gil et al. 1989-1990 (as *Neidium affine*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Neidium affine* (Ehr.) Pfitzer)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Neidium affine*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Neidium affine*)

Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Neidium affine*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Neidium affine* (Ehr.) Pfitzer)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Neidium affine*)
Site: Not Specified
References: Calado 1990 (as *Neidium affine* (Ehrenberg) Pfitzer); Gil et al. 1991 (as *Neidium affine*); Almeida & Gil 2001 (as *Neidium affine* (Ehrenberg) Pfitzer)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Neidium affine*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Neidium affine*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Neidium affine* (Ehrenberg) Pfitzer)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Neidium affine* (Ehr.) Cleve, fossil)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Neidium affine*)

***Neidium affine* (*affinis*) var. *amphirhynchus* (Ehrenberg) Cleve 1894, p. 68 [CAS ref. 000232]**

Basionym: *Navicula amphirhynchus* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonyms: *Navicula affinis* var. *amphirhynchus* (Ehrenberg) Grunow 1860 [CAS ref. 000427]
Neidium amphirhynchus (Ehrenberg) Pfitzer 1871 [CAS ref. 000754]

Distribution (Fig. 819):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphirhynchus* Ehr.)

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphirhynchus* Ehr.)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Neidium affine* (Ehr.) Cleve var. *amphirhynchus* (Ehr.) Cleve)

Municipality: Porto (District: Porto)

Site: Lordelo

Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphirhynchus* Ehr.)

Site: Not Specified

Reference: Colmeiro 1889 (as *Navicula amphirhynchus* Ehrenb.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Site: Raivo, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Municipality: Anadia (District: Aveiro)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium affine* v. *amphirhynchus*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium affine* v. *amphirhynchus*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium affine* v. *amphirhynchus*)
- Site: Viadouros, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium affine* v. *amphirhynchus*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium affine* v. *amphirhynchus*)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium affine* v. *amphirhynchus*)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
- Reference: Calado 1991 (as *Neidium affine* (Ehr.) Cleve var. *amphirhynchus* (Ehr.) Cleve)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Caldeirão
- References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.)); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.))

- Site: Cruz da Faia
Reference: Carvalho 1913(as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.))
- Site: Guarda
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.))
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.)); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.))
- Site: Nueme
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.))
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphirhynchus* (Ehr.))
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium affine* v. *amphirhynchus*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer v. *amphirhynchus* (Ehr.) Cleve)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
Reference: Gil et al. 1991 (as *Neidium affine* v. *amphirhynchus*)
- REGION: ALENTEJO
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Neidium amphirhyncus*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
References: Oliveira 1976 (as *Neidium amphirhyncus* (E.) Pfitz.);
Oliveira 1984a (as *Neidium amphirhyncus*)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Schodduyn 1927 (as *Navicula affinis* Ehr. var. *amphirhynchus* Grun.)

***Neidium alpinum* Hustedt 1943**, p. 139; fig. 48 [CAS ref. 001708]

Distribution (Fig. 820):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium alpinum* Hustedt)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium alpinum* Hustedt)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium alpinum* Hustedt)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium alpinum* Hustedt)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Neidium alpinum* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Neidium alpinum* Hustedt)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Neidium alpinum* Hustedt)
Municipality: Not Specified
Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Neidium alpinum* Hustedt)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Neidium alpinum* Hustedt)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Neidium alpinum* Hustedt)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Neidium alpinum* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Neidium alpinum* Hustedt)

***Neidium amphigomphus* (Ehrenberg) Pfitzer 1871**, p. 39 [CAS ref. 000754]

Basionym: *Navicula amphigomphus* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Navicula iridis* var. *amphigomphus* (Ehrenberg) Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 821):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Campelos, Ave River (Ave Basin)

Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.) V. H.)

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.) V. H.)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Quinta da Bandeira

Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.) V. H.)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))

Site: Caldeirão

- References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.)); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Cubo
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Diz River
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Meios
References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.)); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.)); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Porto da Carne
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Site: Vela
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.))
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Sobral do Campo
Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.) V. H.)
- Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Serra da Gardunha
Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.) V. H.)
- Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Santa Cruz
Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *amphigomphus* (Ehr.) V. H.)

***Neidium amphirhynchus* var. *majus* (major) (Cleve) F. Meister**
1912, p. 107; pl. 14, fig. 16 [CAS ref. 000642]

Basionym: *Neidium affine* var. *amphirhynchus* f. *major* Cleve [CAS ref. -]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Neidium amphirhynchus* (Ehrenberg)
Pfitzer var. *majus* (Cleve) Meister)

***Neidium amphirhynchus* var. *medium* (Cleve-Euler) Cleve-Euler**
1955, p. 114 [CAS ref. 001043]

Distribution (Fig. 822):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Neidium amphirhynchus* var.
medium A. Cl.)

***Neidium amphirhynchus* var. *undulatum* (Grunow) F. Meister**
1912, p. 107; pl. 14, fig. 18 [CAS ref. 000642]

Basionym: *Navicula affinis* var. *undulata* Grunow 1860 [CAS ref. 000427]

Nomenclatural synonym: *Navicula iridis* var. *undulata* (Grunow) Van Heurck
1885 [CAS ref. 001040]

Distribution (Fig. 823):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *undulata* Grun.)

***Neidium ampliatum* (Ehrenberg) Krammer in Krammer & Lange-Bertalot 1985**, p. 101; pl. 2, fig. 8, 9, pl. 3, fig. 4 [CAS ref. 006263]

Basionym: *Navicula ampliata* Ehrenberg 1854a [CAS ref. 000966]

Nomenclatural synonym: *Neidium iridis* var. *ampliata* (Ehrenberg) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 824):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Neidium ampliatum* (Ehrenberg) Krammer)

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Neidium ampliatum* (Ehrenberg) Krammer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)

Site: Redonda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Reference: Nunes 2007 (as *Neidium ampliatum* (Ehrenberg) Krammer)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)
 Site: Vagueira, Canal de Mira
 Reference: Resende et al. 2005 (as *Neidium ampliatum*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Neidium ampliatum* (Ehrenberg) Krammer)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *ampliata* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis* v. *ampliata*)
- Subregion: Not Specified
 Municipality: Not Specified

Site: Not Specified

References: Gil et al. 1991 (as *Neidium iridis* v. *ampliata*); Almeida 1998 (as *Neidium ampliatum* (Ehrenberg) Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Neidium ampliatum* (Ehrenberg) Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Neidium ampliatum* (Ehrenberg) Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Neidium ampliatum* (Ehrenberg) Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Neidium ampliatum* (Ehrenberg) Krammer)

***Neidium apiculatum* Reimer 1959**, p. 116; pl. 3, fig. 6 [CAS ref. 005250]

Distribution (Fig. 825):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Vagueira, Canal de Mira

Reference: Resende et al. 2005 (as *Neidium apiculatum*)

***Neidium binodis* (Ehrenberg) Hustedt 1945**, p. 933 [CAS ref. 000518]

Basionym: *Navicula binodis* Ehrenberg 1840a [CAS ref. 000293]

Distribution (Fig. 826):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Neidium binode*)

***Neidium bisulcatum* (Lagerstedt) Cleve 1894**, p. 68 [CAS ref. 000232]

Basionym: *Navicula bisulcata* Lagerstedt 1873 [CAS ref. 000597]

Distribution (Fig. 827):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Neidium bisulcatum* (Lagerstedt) Cleve); Gil et al. 1989-1990 (as *Neidium bisulcatum*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Neidium bisulcatum*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Neidium bisulcatum* (Lagerst.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

Site: Not Specified

Reference: Gonçalves 2008 (as *Neidium bisulcatum* (Lagerstedt) Cleve)

***Neidium densestriatum* (Østrup) Krammer in Krammer & Lange-Bertalot 1985**, p. 105-106; pl. 2, fig. 3-6 [CAS ref. 006263]

Basionym: *Caloneis ladogensis* var. *densestriata* Østrup 1910 [CAS ref. 000706]

Distribution (Fig. 828):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Neidium densestriatum* (Oestrup) Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Neidium densestriatum* (Oestrup) Krammer)

***Neidium dilatatum* (Ehrenberg) Cleve 1894**, p. 70 [CAS ref. 000232]

Basionym: *Navicula dilatata* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 829):

REGION: CENTRO

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

Reference: Santos et al. 2002 (as *Neidium dilatatum* (Ehr.) Cleve)

***Neidium dubium* (Ehrenberg) Cleve 1894**, p. 70 [CAS ref. 000232]

Basionym: *Navicula dubia* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Navicula iridis* var. *dubia* (Ehrenberg) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 830):

REGION: NORTE

Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)

Subregion: Grande Porto
Municipality: Maia (District: Porto)
Site: Parada
Reference: Silva 1950b (as *Neidium dubium* (Ehr.) Cleve)
Municipality: Porto (District: Porto)
Site: Porto
Reference: Tempère & Peragallo 1907-1915 (as *Navicula dubia*)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Neidium dubium* (Ehrenberg) Cleve)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Neidium dubium*)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Neidium dubium*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Alquerubim
Reference: Zimmermann 1910 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.) V. H.)
Site: Frossos, Carreira Creek (Mondego Basin)

- Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium dubium*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium dubium*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Neidium dubium*); Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium dubium*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium dubium*)
- Site: Vagueira, Canal de Mira
- Reference: Resende et al. 2005 (as *Neidium dubium*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium dubium*)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
- Site: Perrães, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Neidium dubium*); Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Neidium dubium*)
- Site: Vila Verde, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Neidium dubium* (Ehrenberg) Cleve)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfarazes
- Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
- Site: Caldeirão
- References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.)); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
- Site: Cruz da Faia
- Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
- Site: Cubo
- Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))

Site: Diz River
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
Site: Lameirinhas
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
Site: Porto da Carne
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
Site: Vela
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *dubia* (Ehr.))
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Neidium dubium* (Ehr.) Cleve)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Frade 1961 (as *Neidium dubium* (Ehr.))
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Neidium dubium* (Ehr.) Cleve)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
Reference: Oliveira 1984a (as *Neidium dubium*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Neidium dubium*)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Neidium dubium* (Ehrenberg) Cleve)

***Neidium hercynicum* Ant. Mayer 1917a**, p. 30; pl. 3, fig. 2-4 [CAS ref. 000636]

Distribution (Fig. 831):

REGION: CENTRO

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium hercynicum* Mayer)

***Neidium iridis* (Ehrenberg) Cleve 1894**, p. 69 [CAS ref. 000232]

Basionym: *Navicula iridis* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 832):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Neidium iridis* (Ehrenberg) Cleve)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Neidium iridis* (Ehrenberg) Cleve)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido
Reference: Silva 1950b (as *Neidium iridis* (Ehr.) Cleve)
Municipality: Porto (District: Porto)
Site: Requezende
Reference: Silva 1950b (as *Neidium iridis* (Ehr.) Cleve)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Neidium iridis*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Neidium iridis*)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*); Almeida 1998 (as *Neidium iridis* (Ehrenberg) Cleve)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium iridis* (Ehrenberg) Cleve)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium iridis* (Ehrenberg) Cleve)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Municipality: Aveiro (District: Aveiro)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium iridis* (Ehrenberg) Cleve)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Neidium iridis* (Ehrenberg) Cleve)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula iridis* Ehr.)
- Site: Diz River
Reference: Carvalho 1913 (as *Navicula iridis* Ehr.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula iridis* Ehr.)
- Site: Meios
References: Carvalho 1913 (as *Navicula iridis* Ehr.); Santos & Carvalho 2001 (as *Navicula iridis* Ehr.)
- Site: Porto da Carne
Reference: Carvalho 1913 (as *Navicula iridis* Ehr.)
- Site: Vela
Reference: Carvalho 1913 (as *Navicula iridis* Ehr.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula iridis* Ehr.)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
- Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Neidium iridis*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Site: Varzielas, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Neidium iridis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve); Gil et al. 1989-1990 (as *Neidium iridis*)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Neidium iridis* (Ehr.) Cleve)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Neidium iridis* (Ehr.) Cleve)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Neidium iridis*); Cerqueira da Silva et al. 1993 (as *Neidium iridis*); Cerqueira da Silva 1994 (as *Neidium iridis*)
 Site: Not Specified
 References: Calado 1990 (as *Neidium iridis* (Ehrenberg) Cleve); Gil et al. 1991 (as *Neidium iridis*)
- REGION: ALENTEJO
- Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Neidium iridis*)
- Subregion: Lezíria do Tejo
 Municipality: Alpiarça (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Neidium iridis* (Ehr.) Cleve, fossil)
- Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Neidium iridis*)
- Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Navicula iridis* (?))

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Neidium iridis* (Ehrenberg) Cleve)

Municipality: Not Specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Neidium iridis* (Ehrenberg) Cleve)

***Neidium iridis* var. *amphigomphus* (Ehrenberg) Ant. Mayer 1917**
[CAS ref. -]

Distribution (Fig. 833):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer); Gil et al. 1989-1990 (as *Neidium iridis* v. *amphigomphus*)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer); Gil et al. 1989-1990 (as *Neidium iridis* v. *amphigomphus*)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Neidium iridis* v. *amphigomphus*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve v. *amphigomphus* (Ehr.) Mayer); Gil et al. 1989-1990 (as *Neidium iridis* v. *amphigomphus*)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- References: Calado 1990 (as *Neidium iridis* (Ehrenberg) Cleve v. *amphigomphus* (Ehrenberg) Mayer); Gil et al. 1991 (as *Neidium iridis* v. *amphigomphus*)

***Neidium iridis* var. *firma* (*firmum*) (Kützing) Ant. Mayer 1913, p. 114; pl. 11, fig. 17 [CAS ref. 000551]**

Basionym: *Navicula firma* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Navicula iridis* var. *firma* (Kützing) Van Heurck 1896 [CAS ref. 000897]

Distribution (Fig. 834):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Celho

Reference: Zimmermann 1914 (as *Navicula firma* Kuetz.)

Subregion: Minho-Lima

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1914 (as *Navicula firma* Kuetz.)

Subregion: Tâmega

Municipality: Felgueiras (District: Porto)

Site: Pedreira, Sousa River (Douro Basin)

Reference: Zimmermann 1914 (as *Navicula firma* Kuetz.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1914 (as *Navicula firma* Kuetz.)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *firma* Kuetz.)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *firma* Kuetz.);

Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *firma* Kuetz.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *firma* Kuetz.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula iridis* Ehr. var. *firma* Kuetz.);

Zimmermann 1914 (as *Navicula firma* Kuetz.); Santos & Carvalho 2001 (as *Navicula iridis* Ehr. var. *firma* Kuetz.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Navicula iridis* Ehr. var. *firma* Kuetz.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1909b (as *Navicula firma* Kuetz.)

Site: Sobral do Campo

Reference: Zimmermann 1914 (as *Navicula firma* Kuetz.)
Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Castelo Novo, Alpreade Stream (Tagus Basin)
Reference: Zimmermann 1914 (as *Navicula firma* Kuetz.)
Site: Serra da Gardunha
Reference: Zimmermann 1914 (as *Navicula firma* Kuetz.)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1909b (as *Navicula firma* Kuetz.); Zimmermann
1914 (as *Navicula firma* Kuetz.)

***Neidium longiceps* (W. Gregory) Cleve-Euler 1955**, v. 5(4): p. 112
[CAS ref. 001043]

Basionym: *Navicula longiceps* W. Gregory 1856 [CAS ref. 000397]

Nomenclatural synonym: *Neidium affine* (*affinis*) var. *longiceps* (W. Gregory)
Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 835):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps*
(Greg.) Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps*
(Greg.) Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps*
(Greg.) Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps*
(Greg.) Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps*
(Greg.) Cleve); Gil et al. 1989-1990 (as *Neidium affine* v. *longiceps*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps*
(Greg.) Cleve)

Site: Redonda, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve); Gil et al. 1989-1990 (as *Neidium affine* v. *longiceps*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve); Gil et al. 1989-1990 (as *Neidium affine* v. *longiceps*)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Neidium affine* (Ehr.) Pfitzer var. *longiceps* (Greg.) Cleve); Gil et al. 1989-1990 (as *Neidium affine* v. *longiceps*)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- References: Gil et al. 1991 (as *Neidium affine* v. *longiceps*); Almeida 1998 (as *Neidium affine* (Ehrenberg) Pfitzer var. *longiceps* (Gregory) Cleve)

***Neidium productum* (W. Smith) Cleve 1894**, p. 69 [CAS ref. 000232]

Basionym: *Navicula producta* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 836):

REGION: NORTE

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Neidium productum* (W. Smith) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium productum* Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Neidium productum* Cleve); Gil et al. 1989-1990 (as *Neidium productum*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium productum* Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Neidium productum* Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Neidium productum* Cleve); Gil et al. 1989-1990 (as *Neidium productum*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Neidium productum* Cleve); Gil et al. 1989-1990 (as *Neidium productum*)

Municipality: Mealhada (District: Aveiro)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Neidium productum*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Neidium productum* (W. Smith) Cleve)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Neidium productum* Cleve)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium productum* Cleve)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Neidium productum* Cleve)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium productum* Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Neidium productum* Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Gil et al. 1991 (as *Neidium productum*); Almeida 1998 (as *Neidium productum* (W. Smith) Cleve)

***Neidium septentrionalis* Cleve-Euler 1939**, p. 23; fig. 62 [CAS ref. 000250]

Distribution (Fig. 837):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Neidium septentrionale* Cleve-Euler)
Site: Not Specified
Reference: Gonçalves 2008 (as *Neidium septentrionale* Cleve-Euler)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Neidium septentrionalis* Cleve-Euler)

***Neidium vernale* (Reichelt ex Hustedt) Metzeltin & Lange-Bertalot 2007**, p. 183 [CAS ref. 012938]

Basionym: *Neidium iridis* f. *vernalis* Reichelt ex Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 838):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
Site: Avelal de Baixo, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt);
 Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt);
 Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt);
 Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
 River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt);
 Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
 River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt);
 Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt);
 Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt);
 Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Neidium iridis* f. *vernalis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Neidium iridis* (Ehr.) Cleve f. *vernalis* Reichelt)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Neidium iridis* f. *vernalis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Neidium iridis* (Ehr.) Cleve fo. *vernalis* Reichelt); Bourrelly & Manguin 1946a (as *Neidium iridis* (Ehr.) Cleve fo. *vernalis* Reichelt)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Neidium iridis* (Ehr.) Cleve fo. *vernalis* Reichelt); Bourrelly & Manguin 1946a (as *Neidium iridis* (Ehr.) Cleve fo. *vernalis* Reichelt)

***Neidium* sp.**

Distribution (Fig. 839):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Neidium* sp.)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Neidium* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Neidium* sp.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Neidium* sp.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Neidium* sp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1987 (as *Neidium* sp.)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Neidium* sp.)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Neidium* sp.)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Neidium* spp.)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Neidium* sp.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Neidium* sp.)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Neidium* sp.)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Neidium* spp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Neidium* sp.)

***Nitzschia* Hassall 1845, p. 435**
[CAS ref. 000469]

***Nitzschia abbreviata* Hustedt in Schmidt 1924a, pl. 349, fig. 46-48**
[CAS ref. 012508]

Synonym: *Nitzschia inconspicua* Grunow 1862 [CAS ref. 000428], according to
Krammer & Lange-Bertalot 1988, p. 95

Distribution (Fig. 840):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Nitzschia abbreviata*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Nitzschia abbreviata*)

Municipality: Not Specified

Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Nitzschia abbreviata* Hustedt)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia abbreviata* Hustedt)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Nitzschia abbreviata* Hustedt)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Nitzschia abbreviata* Hustedt)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Nitzschia abbreviata* Hustedt)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia abbreviata* Hustedt)
Site: São Miguel Island (middle and downstream sites)
Reference: Gonçalves et al. 2008 (as *Nitzschia abbreviata*)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia abbreviata* Hustedt in Schmidt et al.)

***Nitzschia acicularioides* Hustedt 1959c**, p. 415; fig. 22-24 [CAS ref. 000536]

Distribution:

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Nitzschia acicularioides* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia acicularioides* Hustedt)

***Nitzschia acicularis* (Kützing) W. Smith 1853**, p. 43; pl. 15, fig. 122 [CAS ref. 000863]

Basionym: *Synedra acicularis* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 841):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Melgaço (District: Viana do Castelo)
 Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia acicularis*)

Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia acicularis*)

Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia acicularis*)

Municipality: Not Specified
 Site: Ínsua do Ranhão, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia acicularis*)
 Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Nitzschia acicularis*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia acicularis* W. Smith)

Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia acicularis*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia acicularis*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia acicularis*); Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia acicularis*)

Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia acicularis* W. Smith)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia acicularis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia acicularis*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)

- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia acicularis*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia acicularis* (Kützing) W. Smith)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia acicularis* W. Smith)
- Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Nitzschia acicularis*)
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia acicularis*)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia acicularis*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Nitzschia acicularis*)
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Nitzschia acicularis* W. Sm.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia acicularis* W. Sm.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia acicularis* W. Sm.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia acicularis* W. Sm.)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia acicularis*)
- Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Nitzschia acicularis*)
 Site: Varatojo, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Nitzschia acicularis*)

Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia acicularis*)
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia acicularis*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia acicularis*)
Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia acicularis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Nitzschia acicularis* W. Smith); Gil et al. 1991 (as *Nitzschia acicularis*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Nitzschia acicularis*); Rodrigues & Moita 1979b (as *Nitzschia acicularis*); Fernandes et al. 1987 (as *Nitzschia acicularis*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Nitzschia acicularis*); Oliveira 1984b (as *Nitzschia acicularis*); Oliveira 1987 (as *Nitzschia acicularis* W. Sm.)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Nitzschia acicularis*); Oliveira 1996 (as *Nitzschia acicularis*)
Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Nitzschia acicularis* W. Smith)
Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia acicularis*)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)

- References: Oliveira 1984a (as *Nitzschia acicularis*); Oliveira 1987 (as *Nitzschia acicularis* W. Sm.)
- Municipality: Not Specified
 Site: Sado Estuary (Sado Basin)
 Reference: Oliveira & Coutinho 1992 (as *Nitzschia acicularis*)
 Site: Sado River (Sado Basin)
 Reference: Monteiro et al. 1995 (as *Nitzschia acicularis*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Nitzschia acicularis*)
- Municipality: Castelo de Vide (District: Portalegre)
 Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Nitzschia acicularis*)
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Nitzschia acicularis* W. Sm.); Fernandes et al. 1987 (as *Nitzschia acicularis*)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Nitzschia acicularis*)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia acicularis*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Nitzschia acicularis* W. Sm.); Fernandes et al. 1987 (as *Nitzschia acicularis*)
- Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Nitzschia acicularis*)
- Subregion: Baixo Alentejo
- Municipality: Aljustrel (District: Beja)
 Site: Água Forte, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia acicularis* (Kützing) W. M. Smith)
 Site: Porto de Beja, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia acicularis* (Kützing) W. M. Smith)
 Site: Porto Ferreira, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia acicularis* (Kützing) W. M. Smith)
 Site: Roxo Reservoir, Roxo Stream (Sado Basin)
 References: Oliveira 1976 (as *Nitzschia acicularis* W. Sm.); Oliveira 1984a (as *Nitzschia acicularis*)
- Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia acicularis*)
Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia acicularis*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia acicularis*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia acicularis*)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Nitzschia acicularis*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia acicularis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Guadiana River (Guadiana Basin)
Reference: Oliveira 1991 (as *Nitzschia acicularis*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia acicularis*)

REGION: ALGARVE
Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
References: Oliveira 1984a (as *Nitzschia acicularis*); Oliveira 1987 (as *Nitzschia acicularis* W. Sm.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Calheta (São Jorge Island)
Site: Pico do Calheta
Reference: Mölder 1947 (as *Nitzschia acicularis* Smith)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Mölder 1947 (as *Nitzschia acicularis* Smith)
Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Nitzschia acicularis* Smith); Oliveira 1989 (as *Nitzschia acicularis*)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
Reference: Mölder 1947 (as *Nitzschia acicularis* Smith)
Municipality: Not Specified
Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia acicularis* (Kützing) W. Smith)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Nitzschia acicularis* (Kützing) W. Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia acicularis* (Kützing) W. Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Nitzschia acicularis*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia acicularis* (Kützing) W.M. Smith)

***Nitzschia acicularis* var. *reversa* [CAS ref. -]**

Distribution (Fig. 842):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia acicularis* var. *reversa*)

***Nitzschia acidoclinata* Lange-Bertalot 1976, p. 253-308; fig. 1-2 [CAS ref. 008460]**

Distribution (Fig. 843):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia acidoclinata* Lange-Bertalot)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Nitzschia acidoclinata* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Nitzschia acidoclinata*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acidoclinata* Lange-Bertalot)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acidoclinata* Lange-Bertalot)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acidoclinata* Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acidoclinata* Lange-Bertalot)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia acidoclinata* Lange-Bertalot)

***Nitzschia actinastroides* (Lemmermann) van Goor 1925**, p. 320;
text fig. 1-2 [CAS ref. 002601]

Basionym: *Synedra actinastroides* Lemmermann 1900a [CAS ref. 002757]

Distribution (Fig. 844):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)
Site: Seixas, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Nitzschia actinastroides*)
Municipality: Melgaço (District: Viana do Castelo)
Site: Melgaço, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Nitzschia actinastroides*)
Site: São Gregório, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Nitzschia actinastroides*)
Municipality: Monção (District: Viana do Castelo)
Site: Monção, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Nitzschia actinastroides*)
Municipality: Valença (District: Viana do Castelo)
Site: Valença, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Nitzschia actinastroides*)
Municipality: Not Specified
Site: Ínsua do Ranhão, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Nitzschia actinastroides*)

Site: Minho River (Minho Basin)
Reference: Cerqueira da Silva & Cunha 1992 (as *Nitzschia actinastroides*)

Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Nitzschia actinastroides*)

Subregion: Not Specified

Municipality: Not Specified

Site: Ave Reservoirs, Ave River (Ave Basin)
References: Branco et al. 1991a (as *Synedra actinastroides*); Branco et al. 1991b (as *Synedra actinastroides*)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Pego, Tagus River (Tagus Basin)
Reference: Cerqueira da Silva 1989 (as *Nitzschia actinastroides*)

Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)

Municipality: Torres Novas (District: Santarém)

Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Nitzschia actinastroides* (Lemm.) van Goor)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Nitzschia actinastroides*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Synedra actinastroides*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*); Oliveira et al. 1989 (as *Nitzschia actinastroides*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra actinastroides*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Synedra actinastroides*); Brito & Andrade 1992 (as *Synedra actinastroides*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Synedra actinastroides*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Nitzschia actinastroides*)

***Nitzschia acula (acuta)* Hantzsch ex Cleve & Grunow 1880, p. 90**
[CAS ref. 000241]

Distribution (Fig. 845):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia acula* Hantzsch)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia acuta* Hantzsch)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia acuta* Hantzsch)

- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia acuta* Hantzsch)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia acuta* Hantzsch)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia acuta*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia acuta*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia acuta*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia acuta* Hantzsch)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia acuta*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia acuta*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia acuta*)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia acuta* Hantzsch)
- Subregion: Dão-Lafões
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia acuta* Hantzsch)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Nitzschia acula* Hantzsch)
- REGION: AUTONOMOUS REGION OF AZORES**
- Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Nitzschia acuta* Hantzsch)
- Municipality: Corvo (Corvo Island)
Site: Not Specified
Reference: Mölder 1947 (as *Nitzschia acuta* Hantzsch)
- Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Nitzschia acuta* Hantzsch)
- Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified

Reference: Mölder 1947 (as *Nitzschia acuta* Hantzsch)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acula* Hantzsch)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acula* Hantzsch)
Site: São Jorge Island
References: Johansson 1977 (as *Nitzschia acuta* Hantzsch); Gonçalves et al. 2010 (as *Nitzschia acula* Hantzsch)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acula* Hantzsch)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Nitzschia acula* Hantzsch)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Nitzschia acuta* Hantzsch)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Nitzschia acuta* Hantzsch)

***Nitzschia agnita* Hustedt 1957**, p. 347; fig. 51 [CAS ref. 000532]

Distribution (Fig. 846):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia agnita* Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia agnita* Hustedt)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia agnita* Hustedt)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia agnita* Hustedt)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia agnita* Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia agnita* Hustedt)

***Nitzschia alpina* Hustedt 1943**, p. 232; fig. 60-65 [CAS ref. 001708]

Distribution (Fig. 847):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia alpina* Hustedt)

***Nitzschia amphibia* Grunow 1862**, p. 574; pl. 28/12, fig. 23 [CAS ref. 000428]

Distribution (Fig. 848):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Nitzschia amphibia* Grunow)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia amphibia* Grunow)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Site: Águeda, Águeda River (Vouga Basin)
References: : Gil 1988 (as *Nitzschia amphibia* Grunow); Almeida 1998 (as *Nitzschia amphibia* Grunow)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia amphibia* Grunow)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia amphibia*); Almeida 1998 (as *Nitzschia amphibia* Grunow)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Nitzschia amphibia* Grunow)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
 Site: Vagueira, Canal de Mira
 Reference: Resende et al. 2005 (as *Nitzschia amphibia*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)

Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia amphibia*); Almeida 1998 (as *Nitzschia amphibia* Grunow)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia amphibia*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia amphibia* Grunow)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia amphibia* Grunow)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Nitzschia amphibia* Grun.)
Site: Guarda
Reference: Carvalho 1913 (as *Nitzschia amphibia* Grun.)
Site: Vela
Reference: Carvalho 1913 (as *Nitzschia amphibia* Grun.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia amphibia* Grunow)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Nitzschia amphibia* Grun.)
Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Nitzschia amphibia* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Nitzschia amphibia* Grunow); Gil et al. 1991 (as *Nitzschia amphibia*); Almeida & Gil 2001 (as *Nitzschia amphibia* Grunow)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Not Specified
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Nitzschia amphibia*)
Subregion: Alto Alentejo
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Nitzschia amphibia*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Nitzschia amphibia* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Nitzschia amphibia* Grun.)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Nitzschia amphibia* Grun.)
Municipality: Povoação (São Miguel Island)
Site: Furnas
References: Holmboe 1901 (as *Nitzschia amphibia* Grun.); Mölder 1947 (as *Nitzschia amphibia* Grun.)
Site: Lagoa das Furnas
References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.)
Site: Pico da Vara
References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.)
Site: Ribeira Quente

References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.); Mölder 1947 (as *Nitzschia amphibia* Grun.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Nitzschia amphibia*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Nitzschia amphibia*)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.)

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Nitzschia amphibia* Grunow)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia amphibia* Grunow)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Nitzschia amphibia* Grunow)

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Nitzschia amphibia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun.)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Nitzschia amphibia* Grunow)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia amphibia* Grunow)

Site: São Jorge Island

References: Johansson 1977 (as *Nitzschia amphibia* Grun.); Gonçalves et al. 2010 (as *Nitzschia amphibia* Grunow)

Site: São Miguel Island (middle and downstream sites)

Reference: Gonçalves et al. 2008 (as *Nitzschia amphibia*)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Nitzschia amphibia* Grunow)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia amphibia* Grunow)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Tanque nos Estanquinhos
Reference: Zimmermann 1910-1911 (as *Nitzschia amphibia* Grun.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Nitzschia amphibia* Grun.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Nitzschia amphibia* Grun.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia amphibia* Grunow f. *amphibia*)

***Nitzschia amphibia* f. *abbreviata* Manguin 1942**, p. 153; pl. 4, fig. 73
[CAS ref. 000623]

Distribution (Fig. 849):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Nitzschia amphibia* Grun. fo. *abbreviata* Manguin); Bourrelly & Manguin 1946a (as *Nitzschia amphibia* Grun. fo. *abbreviata* Manguin)

***Nitzschia amphibioides* Hustedt 1942c**, p. 132; fig. 283-288 [CAS ref. 000516]

Distribution (Fig. 850):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia amphibioides* Hustedt)
Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia amphibioides* Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia amphibioides* Hustedt)

***Nitzschia archibaldii* Lange-Bertalot 1980c**, p. 44-45; fig. 14-18,
115-121 [CAS ref. 008464]

Distribution (Fig. 851):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia archibaldii* Lange-Bertalot)

***Nitzschia aurariae* Cholnoky 1965**, v. 8(2): p. 165; fig. 9-11, 15-18
[CAS ref. 003665]

Distribution (Fig. 852):

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia aurariae* Cholnoky)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia aurariae* Cholnoky)

***Nitzschia bacillum* Hustedt 1921**, p. 149; pl. 10, fig. 51-52 [CAS ref. 000495]

Distribution (Fig. 853):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Nitzschia bacillum* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia bacillum* Hustedt)

Nitzschia bergii Cleve-Euler 1952, p. 89; fig. 1501 [CAS ref. 001044]

Distribution (Fig. 854):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia bergii* A. Cleve)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia bergii* A. Cleve)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia bergii* A. Cleve)

Nitzschia bilobata W. Smith 1853, p. 42; pl. 15, fig. 113 [CAS ref. 000863]

Distribution (Fig. 855):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia bilobata* W. M. Smith)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia bilobata* W. M. Smith)

Nitzschia brevissima Grunow in Van Heurck 1881, pl. 67, fig. 4 [CAS ref. 001035]

Basionym: *Nitzschia obtusa* var. *brevissima* Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 856):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia brevissima* Grunow)

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia brevissima* Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia brevissima* Hustedt)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

References: Nunes 2007 (as *Nitzschia brevissima* Grunow); Ferreira da Silva et al. 2009 (as *Nitzschia brevissima* Grunow)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia brevissima* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia obtusa* W. Sm. var. *brevissima* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia obtusa* W. Sm. var. *brevissima* Grun.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Nitzschia brevissima/terrestris* ?)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia brevissima* Grunow)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Nitzschia brevissima* Grunow)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Nitzschia brevissima* Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia brevissima* Grunow)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia cf. brevissima* Grunow)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia brevissima* Grunow)

***Nitzschia bryophila* (Hustedt) Hustedt 1943**, p. 232; fig. 66-71 [CAS ref. 001708]

Basionym: *Nitzschia frustulum* var. *bryophila* Hustedt 1937 [CAS ref. 000510]

Distribution (Fig. 857):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia bryophila* (Hustedt) Hustedt)

***Nitzschia capitata* Østrup 1913**, p. 35; pl. 1, fig. 27 [CAS ref. 000708]

Distribution (Fig. 858):

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia capitata* Østrup)

***Nitzschia capitellata* Hustedt in Schmidt 1922**, pl. 348; 57-58 [CAS ref. 012507]

Distribution (Fig. 859):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia capitellata* Hustedt in A. Schmidt & al.)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia capitellata* Hustedt in A. Schmidt & al.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia capitellata* Hustedt)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia capitellata* Hustedt)
 Site: Vila Verde, Levira River (Vouga Basin)
 References: Almeida 1998 (as *Nitzschia capitellata* Hustedt); Almeida
 2001 (as *Nitzschia capitellata* Hustedt)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia capitellata* Hustedt in A. Schmidt &
 al.)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Almeida & Gil 2001 (as *Nitzschia capitellata* Hustedt)

REGION: ALENTEJO

Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Forte, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia capitellata* Hustedt in A.
 Schmidt et al.)
 Site: Porto de Beja, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia capitellata* Hustedt in A.
 Schmidt et al.)
 Site: Porto Ferreira, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia capitellata* Hustedt in A.
 Schmidt et al.)
 Municipality: Mértola (District: Beja)
 Site: Acid mine drainage of the São Domingos mine
 Reference: Gerhardt et al. 2008 (as *Nitzschia capitellata* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Nitzschia capitellata* Hust.)

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Nitzschia capitellata* Hust.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Nitzschia capitellata* Hust.)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Nitzschia capitellata* Hust.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Nitzschia capitellata* Hust.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Nitzschia capitellata*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia capitellata* Hustedt)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Nitzschia capitellata* Hustedt)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Nitzschia capitellata* Hustedt)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia capitellata* Hustedt)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Nitzschia capitellata* Hustedt)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia capitellata* Hustedt)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Nitzschia capitellata* Hustedt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia capitellata* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia capitellata* Hustedt in A. Schmidt & al.)

***Nitzschia capitellata* var. *tenuirostris* (Grunow in Van Heurck)
Bukhtiyarova 1995, v. 5(4): p. 422 [CAS ref. 008000]**

Basionym: *Nitzschia palea* var. *tenuirostris* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 860):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith var. *tenuirostris* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *tenuirostris*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith var. *tenuirostris* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *tenuirostris*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *tenuirostris*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith var. *tenuirostris* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith var. *tenuirostris* Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *tenuirostris*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *tenuirostris*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *tenuirostris*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Nitzschia palea* (Kg.) W. Sm. var. *tenuirostris* Grunow)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith var. *tenuirostris* Grunow)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith var. *tenuirostris* Grunow)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith var. *tenuirostris* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Nitzschia palea* (Kütz.) W. Sm. fo. ad. var. *tenuirostris* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia palea* (Kütz.) W. Sm. fo. ad. var. *tenuirostris* Grun.)

***Nitzschia circumscuta* (J.W. Bailey) Grunow 1878**, p. 118 [CAS ref. 000439]

Basionym: *Surirella circumscuta* J.W. Bailey 1851 [CAS ref. 000119]

Distribution (Fig. 861):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia circumscuta*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia circumscuta*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Nitzschia circumscuta* (Bailey) Grunow)

***Nitzschia clausii* Hantzsch 1860**, p. 40; pl. 6, fig. 7 [CAS ref. 002258]

Distribution (Fig. 862):

REGION: NORTE

Subregion: Entre Douro e Vouga

- Municipality: Arouca (District: Aveiro)
 Site: Serra da Freita, Arões, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia clausii* Hantzsch); Nunes 2007 (as *Nitzschia clausii* Hantzsch); Ferreira da Silva et al. 2009 (as *Nitzschia clausii* Hantzsch)
- Municipality: Oliveira de Azeméis (District: Aveiro)
 Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia clausii* Hantzsch); Nunes 2007 (as *Nitzschia clausii* Hantzsch)
- Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Nitzschia clausii* Hantzsch)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia clausii* Hantzsch)
- Subregion: Grande Porto
 Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Nitzschia clausii*)
- Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Sains, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Nitzschia clausii*)

REGION: CENTRO

- Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Nitzschia clausii* Hantzsch); Ferreira da Silva et al. 2009 (as *Nitzschia clausii* Hantzsch)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia clausii* Hantzsch)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia clausii* Hantzsch)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes et al. 2003 (as *Nitzschia clausii* Hantzsch)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia clausii* Hantzsch)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

- References: Nunes 2007 (as *Nitzschia clausii* Hantzsch); Ferreira da Silva et al. 2009 (as *Nitzschia clausii* Hantzsch)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia clausii*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia clausii*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
 Site: Vagueira, Canal de Mira
 Reference: Mendes et al. 2009 (as *Nitzschia clausii*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia clausii* Hantzsch)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia clausii*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia clausii*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia clausii*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia clausii*)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia clausii* Hantzsch)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia clausii* Hantzsch)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia clausii* Hantzsch); Nunes 2007 (as *Nitzschia clausii* Hantzsch)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Nitzschia clausii*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia clausii*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Nitzschia clausii* Hantzsch); Almeida & Gil
2001 (as *Nitzschia clausii* Hantzsch)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia clausii* Hantzsch)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia clausii* Hantzsch)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Nitzschia clausii* Hantz.); Bourrelly &
Manguin 1946a (as *Nitzschia clausii* Hantz.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia clausii* Hantzsch)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia clausii* Hantzsch)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia clausii* Hantzsch)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia clausii* Hantzsch)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia clausii* Hantzsch)

***Nitzschia clausii* f. *curvirostrata* Manguin 1942**, p. 155; pl. 4, fig. 81
[CAS ref. 000623]

Distribution (Fig. 863):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Nitzschia clausii* Hantz. fo. *curvirostrata* Manguin); Bourrelly & Manguin 1946a (as *Nitzschia clausii* Hantz. fo. *curvirostrata* Manguin)

***Nitzschia closterium* (Ehrenberg) W. Smith 1853**, p. 42; pl. 15, fig. 120 [CAS ref. 000863]

Basionym: *Ceratoneis closterium* Ehrenberg 1839b [CAS ref. 000291]

Distribution (Fig. 864):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Not Specified

Site: Lima River (Lima Basin)

Reference: Cerqueira da Silva 1990 (as *Nitzschia closterium*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia closterium* (Ehr.) W. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia closterium* (Ehr.) W. Smith)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia closterium*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia closterium*)

***Nitzschia coarctata* Grunow 1880**, p. 69 [CAS ref. 009613]

Distribution:

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Nitzschia coarctata* Grunow)

***Nitzschia communis* Rabenhorst in Grunow 1862**, p. 561, 578; pl. 12[18], fig. 18 [CAS ref. 000428]

Distribution (Fig. 865):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: Izeda

Reference: Zimmermann 1910 (as *Nitzschia communis* Rabenh.)

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Campelos, Ave River (Ave Basin)

Reference: Zimmermann 1910 (as *Nitzschia communis* Rabenh.)

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Not Specified

Reference: Zimmermann 1910 (as *Nitzschia communis* Rabenh.)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

References: Henriques 1884 (as *Nitzschia communis* Rabenh.); Sampaio 1950 (as *Nitzschia communis* Rabenh.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)

- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia communis*)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Nitzschia communis* Rabenh.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Nitzschia communis* Rabenh.); Santos & Carvalho 2001 (as *Nitzschia communis* Rabenh.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Nitzschia communis* Rabenh.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Nitzschia communis* Rabenh.)
 Site: Guarda
 References: Zimmermann 1910 (as *Nitzschia communis* Rabenh.); Carvalho 1913 (as *Nitzschia communis* Rabenh.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Nitzschia communis* Rabenh.); Santos & Carvalho 2001 (as *Nitzschia communis* Rabenh.)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Nitzschia communis* Rabenh.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia communis* Rabenhorst)
- Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Nitzschia communis* Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia communis* Rabenhorst)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia communis* Rabenhorst)

***Nitzschia communis* var. *obtusa* Grunow in Cleve & Grunow 1880,**
p. 98 [CAS ref. 000241]

Distribution (Fig. 866):

REGION: NORTE

Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Cerreiros
Reference: Zimmermann 1914 (as *Nitzschia communis* Rabenh. var. *obtusa* Grun.)

REGION: CENTRO

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Nitzschia communis* Rabenh. var.? *obtusa* Grun.)
Site: Cubo
Reference: Carvalho 1913 (as *Nitzschia communis* Rabenh. var.? *obtusa* Grun.)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Nitzschia communis* Rabenh. var.? *obtusa* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Nitzschia communis* v. *obtusa* Grun.)
Site: Ribeira Quente

References: Manguin 1942 (as *Nitzschia communis* Rabh. var. *obtusa* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia communis* Rabh. var. *obtusa* Grun.)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Nitzschia communis* v. *obtusa* Grun., fossil)

***Nitzschia commutata* Grunow in Cleve & Grunow 1880, p. 79 [CAS ref. 000241]**

Distribution (Fig. 867):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Nitzschia commutata* Grunow)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Nitzschia commutata* Grunow)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia commutata* Grunow)

***Nitzschia commutatoides* Lange-Bertalot in Lange-Bertalot & Krammer 1987, v. 15: p. 11; pl. 21, fig. 5-7 [CAS ref. 006173]**

Distribution (Fig. 868):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Nitzschia commutatoides* Lange-Bertalot)

***Nitzschia dissipata* (Kützing) Grunow 1862, p. 561 [CAS ref. 000428]**

Basionym: *Synedra dissipata* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 869):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Nitzschia dissipata* (Kützing) Grunow);

Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia dissipata* (Kützing) Grunow)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 2001 (as *Nitzschia dissipata* (Kützing) Grunow);

Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow); Nunes 2007 (as

Nitzschia dissipata (Kützing) Grunow)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al.

1989-1990 (as *Nitzschia dissipata*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al.

1989-1990 (as *Nitzschia dissipata*); Almeida 1998 (as *Nitzschia dissipata*

(Kützing) Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al.

1989-1990 (as *Nitzschia dissipata*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al.

1989-1990 (as *Nitzschia dissipata*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes et al. 2003 (as *Nitzschia dissipata* (Kützing) Grunow)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Nitzschia dissipata*); Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Nitzschia dissipata* (Koetz.) Grunow)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Perrães, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Nitzschia dissipata*); Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia dissipata*)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dissipata* (Kützing) Grunow)

Municipality: Sever do Vouga (District: Aveiro)

- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia dissipata* (Kützing) Grunow);
 Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia dissipata* (Kützing) Grunow);
 Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia dissipata* (Kützing) Grunow);
 Nunes 2007 (as *Nitzschia dissipata* (Kützing) Grunow)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia dissipata* (Kützing) Grunow)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Nitzschia dissipata* (Kützing) Grunow)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Nitzschia dissipata*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia dissipata* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Nitzschia dissipata*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Nitzschia dissipata*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia dissipata*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia dissipata*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia dissipata*)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Nitzschia dissipata* (Kützing) Grunow)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Nitzschia dissipata* (Kützing) Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Nitzschia dissipata* (Kützing) Grunow); Gil et al. 1991 (as *Nitzschia dissipata*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia dissipata*)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Nitzschia dissipata* (Kützing) Grunow)
Municipality: Not Specified
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Nitzschia dissipata*)
Subregion: Alto Alentejo
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia dissipata*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia dissipata*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Nitzschia dissipata*)
Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
 Site: Ponte do Curval, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia dissipata* (Kützing) Grunow)

Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Nitzschia dissipata*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia dissipata*)

Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia dissipata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)
 Site: Not Specified
 Reference: Mölder 1947 (as *Nitzschia dissipata* (Kütz.) Grun.)

Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Nitzschia dissipata* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Nitzschia dissipata* (Kütz.) Grun.)

Municipality: Santa Cruz das Flores (Flores Island)
 Site: Ribeira Grande
 References: Manguin 1942 (as *Nitzschia dissipata* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Nitzschia dissipata* (Kütz.) Grun.)

Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: São Jorge Island
 References: Johansson 1977 (as *Nitzschia dissipata* (Kütz.) Grun.);
 Gonçalves et al. 2010 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Nitzschia dissipata* (Kützing) Grunow)

Site: Not Specified
 Reference: Gonçalves 2008 (as *Nitzschia dissipata* (Kützing) Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus and Sado Sedimentary Deposits

Reference: Morais et al. 2009 (as *Nitzschia dissipata* (Kützing) Grunow var. *dissipata*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia dissipata* (Kützing) Grunow var. *dissipata*)

***Nitzschia dissipata* var. *media* (Hantzsch) Grunow in Van Heurck 1881**, (p. 178); pl. 63, fig. 2-3 [CAS ref. 001035]

Basionym: *Nitzschia media* Hantzsch 1860 [CAS ref. 002258]

Distribution (Fig. 870):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Nitzschia dissipata* (Kuetz.) Grun. var. *media* (Hantzsch.))

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Nitzschia dissipata* (Kuetz.) Grun. var. *media* (Hantzsch.))

Site: Cubo

Reference: Carvalho 1913 (as *Nitzschia dissipata* (Kuetz.) Grun. var. *media* (Hantzsch.))

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Nitzschia dissipata* (Kuetz.) Grun. var. *media* (Hantzsch.)); Santos & Carvalho 2001 (as *Nitzschia dissipata* (Kuetz.) Grun. var. *media* (Hantzsch.))

Site: Vela

Reference: Carvalho 1913 (as *Nitzschia dissipata* (Kuetz.) Grun. var. *media* (Hantzsch.))

Site: Vila Patrício

Reference: Carvalho 1913 (as *Nitzschia dissipata* (Kuetz.) Grun. var. *media* (Hantzsch.))

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia dissipata* (Kützing) Grunow var. *media* (Hantzsch.) Grunow)

Nitzschia dubia W. Smith 1853, p. 41; pl. 13, fig. 112 [CAS ref. 000863]

Distribution (Fig. 871):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia dubia*)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dubia* W. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dubia* W. Smith)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dubia* W. Smith)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dubia* W. Smith)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dubia* W. Smith)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dubia* W. Smith)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia dubia*)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia dubia* W. Smith)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001 (as *Nitzschia dubia* W. Smith)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia dubia* W. M. Smith)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia dubia* W. M. Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia dubia* W. M. Smith)

***Nitzschia dubia* var. *latestriata* Østrup 1910**, p. 150; pl. 4, fig. 95
[CAS ref. 000706]

Distribution (Fig. 872):

REGION: CENTRO

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia dubia* W. Smith var. *latestriata* Østrup)

***Nitzschia epithemiformis* Lange-Bertalot 1980c**, p. 45-46; fig. 105-109 [CAS ref. 008464]

Synonym: *Nitzschia epithemoides* var. *disputata* (J.R. Carter) Lange-Bertalot in Lange-Bertalot & Krammer 1987 [CAS ref. 006173], according to Krammer & Lange-Bertalot 1988, p. 51

Distribution (Fig. 873):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Nitzschia epithemiformis* Lange-Bertalot)

***Nitzschia epithemoides* var. *disputata* (J.R. Carter) Lange-Bertalot in Lange-Bertalot & Krammer 1987**, p. 16-17 [CAS ref. 006173]

Basionym: *Nitzschia disputata* J.R. Carter 1971 [CAS ref. 008094]

Synonym: *Nitzschia epithemiformis* Lange-Bertalot 1980c [CAS ref. 008464], according to Krammer & Lange-Bertalot 1988, p. 51

Distribution (Fig. 874):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Valmaior, mouth of Filvida River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia disputata* Carter)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia disputata* Carter)
Site: Silva Escura (upstream of the Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia disputata* Carter)

Subregion: Not Specified
Municipality: Not Specified
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Nitzschia epithemioides* Grunow var. *disputata* (Carter) Lange-Bertalot)

***Nitzschia filiformis* (W. Smith) Van Heurck 1896**, p. 406; pl. 33, fig. 882 [CAS ref. 000897]

Basionym: *Homoeocladia filiformis* W. Smith [CAS ref. 001007]

Distribution (Fig. 875):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia filiformis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia filiformis*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia filiformis*)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia filiformis*)

Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia filiformis* (W. Smith) Van Heurck)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia filiformis* (W. Smith) Van Heurck)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia filiformis* (W. Smith) Van Heurck)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia filiformis* (W. Smith) Van Heurck)

Municipality: Mealhada (District: Aveiro)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia filiformis*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia filiformis* (W. Smith) Van Heurck)

Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia filiformis*); Almeida 1998 (as *Nitzschia filiformis* (W. Smith) Van Heurck)

Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia filiformis*)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia filiformis* (W. Smith) Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Nitzschia filiformis* (W. Smith) Hustedt); Gil et al. 1991 (as *Nitzschia filiformis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Nitzschia filiformis* (Smith) Hust.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia filiformis* (W. Smith) Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia filiformis* (W.M. Smith) Van Heurck var. *filiformis*)

***Nitzschia filiformis* var. *conferta* (P.G. Richter) Lange-Bertalot in Lange-Bertalot & Krammer 1987, p. 18 [CAS ref. 006173]**

Basionym: *Homoeocladia conferta* P.G. Richter 1879 [CAS ref. 002139]

Distribution (Fig. 876):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia filiformis* var. *conferta* (Richert) Lange-Bertalot)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia filiformis* var. *conferta* (Richert) Lange-Bertalot)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia filiformis* (W. Smith) Van Heurck var. *conferta* (Richter) Lange-Bertalot)

***Nitzschia fonticola* (Grunow) Grunow in Van Heurck 1881**, pl. 69, figs. 15-20 [CAS ref. 001035]

Basionym: *Nitzschia palea* var. *fonticola* Grunow 1880 [CAS ref. 009613]

Synonym: *Nitzschia romana* Grunow in Van Heurck 1881 [CAS ref. 001035], according to Krammer & Lange-Bertalot 1988, p. 103

Distribution (Fig. 877):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia fonticola* Grunow)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia fonticola* Grunow); Almeida 1998 (as *Nitzschia fonticola* Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia fonticola*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia fonticola*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia fonticola*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia fonticola*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia fonticola*); Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia fonticola*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Nitzschia fonticola* Grunow)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia fonticola*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia fonticola*); Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia fonticola* Grunow)
 Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia fonticola* Grunow in Cleve & Möller)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia fonticola* Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Nitzschia fonticola* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Nitzschia fonticola*, fossil)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia fonticola* Grun.); Bourrelly &

Manguin 1946a (as *Nitzschia fonticola* Grun.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Nitzschia fonticola* Grun.); Bourrelly &

Manguin 1946a (as *Nitzschia fonticola* Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia fonticola* Grunow in Cleve & Möller, fossil)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia fonticola* Grunow in Cleve & Möller, fossil)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Nitzschia fonticola* Grunow in Cleve & Möller, fossil)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia fonticola* Grunow in Cleve & Möller, fossil)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Nitzschia fonticola* Grunow in Cleve & Möller, fossil)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia fonticola* Grunow in Cleve & Möller)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia fonticola* Grunow in Cleve et Müller)

***Nitzschia fontifuga* Cholnoky 1962**, p. 54; fig. 76, 77 [CAS ref. 000211]

Distribution (Fig. 878):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia fontifuga* (aff.) Cholnoky)

***Nitzschia frustulum* (Kützing) Grunow in Cleve & Grunow 1880**, p. 98 [CAS ref. 000241]

Basionym: *Synedra frustulum* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 879):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia frustulum* (Kützing) Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Nitzschia frustulum* (Koetz.) Rabh.)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)

- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia frustulum*); Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia frustulum*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia frustulum* (Kützing) Grunow)
- Subregion: Dão-Lafões
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia frustulum* (Kütz.) Grunow)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Gil et al. 1991 (as *Nitzschia frustulum*); Almeida & Gil 2001 (as *Nitzschia frustulum* (Kützing) Grunow)
- REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Oliveira & Monteiro 1995 (as *Nitzschia frustulum*); Oliveira 1996 (as *Nitzschia frustulum*)
- Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia frustulum* (Kützing) Grunow)
Municipality: Not Specified
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Nitzschia frustulum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Nitzschia frustulum*)

Municipality: Not Specified

Site: São Miguel Island (middle and downstream sites)

Reference: Gonçalves et al. 2008 (as *Nitzschia frustulum*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia frustulum* (Kützing) Grunow)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Nitzschia frustulum* (Kützing) Grunow)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Nitzschia frustulum* (Kützing) Grunow)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia frustulum* (Kützing) Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia frustulum* (Kützing) Grunow)

Site: Not Specified

References: Gonçalves 2008 (as *Nitzschia cf. frustulum* (Kützing) Grunow); Gonçalves 2008 (as *Nitzschia frustulum* (Kützing) Grunow);

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus and Sado Sedimentary Deposits

Reference: Morais et al. 2009 (as *Nitzschia frustulum* (Kützing) Grunow var. *frustulum*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia frustulum* (Kützing) Grunow var. *frustulum*)

***Nitzschia frustulum* var. *subsalina* Hustedt 1930, p. 415; fig. 796
[CAS ref. 000502]**

Distribution (Fig. 880):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia frustulum* v. *subsalina*)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia frustulum* v. *subsalina*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia frustulum* v. *subsalina*)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia frustulum* v. *subsalina*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia frustulum* v. *subsalina*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia frustulum* v. *subsalina*)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia frustulum* v. *subsalina*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Nitzschia frustulum* Kütz. var. *subsalina* Hust.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Nitzschia frustulum* Kütz. var. *subsalina* Hust.)

***Nitzschia fruticosa* Hustedt 1957**, p. 349; fig. 81-82 [CAS ref. 000532]

Distribution (Fig. 881):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia fruticosa* Hustedt)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Nitzschia fruticosa*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia fruticosa*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Nitzschia fruticosa* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia fruticosa* Hustedt)

***Nitzschia graciliformis* Lange-Bertalot & Simonsen 1978**, v. 1: p. 33-34; fig. 214, 215 [CAS ref. 008476]

Distribution (Fig. 882):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)

- Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
 Site: Vila Verde, Levira River (Vouga Basin)
 References: Almeida 1998 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen); Almeida 2001 (as *Nitzschia graciliformis* L.-Bertalot & Simonsen)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)
- REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: INAG I.P. 2008 (as *Nitzschia graciliformis* Lange-Bertalot & Simonsen)

***Nitzschia gracilis* Hantzsch 1860**, p. 40; pl. 6, fig. 8 [CAS ref. 002258]

Distribution (Fig. 883):

REGION: NORTE
 Subregion: Alto Trás-os-Montes

- Municipality: Montalegre (District: Vila Real)
 Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
 Reference: Oliveira 1982a (as *Nitzschia gracilis*)
- Subregion: Entre Douro e Vouga
 Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Nitzschia gracilis* Hantzsch)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 References: Almeida 1998 (as *Nitzschia gracilis* Hantzsch); Almeida 2001 (as *Nitzschia gracilis* Hantzsch)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia gracilis* Hantzsch)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)

REGION: CENTRO

- Subregion: Baixo Mondego
 Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: Abrantes et al. 2006 (as *Nitzschia gracilis*)
- Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Marsh near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Nitzschia gracilis* Hantzsch)
- Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia gracilis* Hantzsch); Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia gracilis*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia gracilis* Hantzsch)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
 Site: Tamengos, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Nitzschia gracilis*)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia gracilis* Hantzsch)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia gracilis* Hantzsch)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia gracilis* Hantzsch)
Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 1998 (as *Nitzschia gracilis* Hantzsch); Almeida 2001 (as *Nitzschia gracilis* Hantzsch)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia gracilis* Hantzsch)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia gracilis* Hantzsch)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Nitzschia gracilis*)
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Nitzschia gracilis* Hantz.)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Nitzschia gracilis* Hantzsch)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Nitzschia gracilis* Hantzsch)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1987 (as *Nitzschia gracilis* Hantzsch.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Gadiana Basin)

References: Oliveira & Monteiro 1995 (as *Nitzschia gracilis*); Oliveira 1996 (as *Nitzschia gracilis*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia gracilis* Hantzsch)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Nitzschia gracilis*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Nitzschia gracilis* Hantzsch)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Gadiana Basin)

Reference: Oliveira 1984a (as *Nitzschia gracilis*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Nitzschia gracilis*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Nitzschia gracilis* Hantzsch.)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Nitzschia gracilis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada
Reference: Mölder 1947 (as *Nitzschia gracilis* Hantzsch)
Municipality: Calheta (São Jorge Island)
Site: Pico do Calheta
Reference: Mölder 1947 (as *Nitzschia gracilis* Hantzsch)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Mölder 1947 (as *Nitzschia gracilis* Hantzsch)
Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Nitzschia gracilis* Hantzsch)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Nitzschia gracilis* Hantzsch)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Nitzschia gracilis* Hantz.); Bourrelly & Manguin 1946a (as *Nitzschia gracilis* Hantz.)
Site: Not Specified
Reference: Mölder 1947 (as *Nitzschia gracilis* Hantzsch)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Nitzschia gracilis* Hantzsch)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia gracilis* Hantzsch)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Nitzschia gracilis* Hantzsch)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Nitzschia gracilis* Hantzsch)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia gracilis* Hantzsch)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Nitzschia gracilis* Hantzsch)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia gracilis* Hantzsch)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia gracilis* Hantzsch)

***Nitzschia hantzschiana* Rabenhorst 1860b**, p. 40; pl. 6, fig. 6 [CAS ref. 002557]

Distribution (Fig. 884):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst); Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hantzschiana* Rabenhorst)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hantzschiana* Rabenhorst)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia hantzschiana*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia hantzschiana*)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Nitzschia hantzschiana*)
Site: Not Specified
References: Calado 1990 (as *Nitzschia hantzschiana* Rabenhorst); Gil et al. 1991 (as *Nitzschia hantzschiana*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia hantzschiana* Rabenhorst)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia hantzschiana* Rabenhorst)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia hantzschiana* Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas

References: Manguin 1942 (as *Nitzschia hantzschiana* Rabh.); Bourrelly & Manguin 1946a (as *Nitzschia hantzschiana* Rabh.)

Site: Pico da Vara

References: Manguin 1942 (as *Nitzschia hantzschiana* Rabh.); Bourrelly & Manguin 1946a (as *Nitzschia hantzschiana* Rabh.)

Site: Ribeira Quente

References: Manguin 1942 (as *Nitzschia hantzschiana* Rabh.); Bourrelly & Manguin 1946a (as *Nitzschia hantzschiana* Rabh.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia hantzschiana* Rabenhorst)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia hantzschiana* Rabenhorst)

***Nitzschia harderi* Hustedt in Brendemühl 1949, p. 441; fig. 8 [CAS ref. 002205]**

Distribution (Fig. 885):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)

Site: Raivo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia harderi* Hustedt); Gil et al. 1989-1990 (as *Nitzschia harderi*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia harderi* Hustedt)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Nitzschia harderi*)

***Nitzschia heufleriana* Grunow 1862, p. 575 [CAS ref. 000428]**

Distribution (Fig. 886):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Nitzschia heufleriana* Grun.)

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia heufleriana* Grunow)

***Nitzschia hybrida* Grunow in Cleve & Grunow 1880**, p. 79; pl. 5,
fig. 95 [CAS ref. 000241]

Distribution (Fig. 887):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Nitzschia hybrida* Grun.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia hybrida* Grunow)

***Nitzschia ignorata* Krasske 1929**, p. 355; fig. 23 [CAS ref. 000582]

Synonym: *Nitzschia nana* Grunow in Van Heurck 1881 [CAS ref. 001035],
according to Krammer & Lange-Bertalot 1988, p. 26

Distribution (Fig. 888):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia ignorata*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia ignorata*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia ignorata*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia ignorata*)

Municipality: Not Specified

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia ignorata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Nitzschia ignorata* Krasske)

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Nitzschia ignorata* Krasske)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Nitzschia ignorata* Krasske); Bourrelly &

Manguin 1946a (as *Nitzschia ignorata* Krasske)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia ignorata* Krasske); Bourrelly &

Manguin 1946a (as *Nitzschia ignorata* Krasske)

Site: Not Specified

Reference: Mölder 1947 (as *Nitzschia ignorata* Krasske)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Nitzschia ignorata* Krasske)

***Nitzschia incognita* Legler & Krasske 1940**, p. 343; pl. 11, fig. 3 a-b
[CAS ref. 006296]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia* cf. *incognita* Legler et Krasske)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia incognita* Legler et Krasske)

***Nitzschia inconspicua* Grunow 1862**, p. 579; pl. 28/12, fig. 25 [CAS
ref. 000428]

Synonym: *Nitzschia abbreviata* Hustedt in Schmidt 1924a [CAS ref. 012508],
according to Krammer & Lange-Bertalot 1988, p. 95

Distribution (Fig. 889):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia inconspicua* Grunow)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia inconspicua* Grunow)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Nitzschia inconspicua*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Nitzschia inconspicua*)

Subregion: Not Specified

Municipality: Not Specified

Site: Impacted site after BKME discharge, Vouga River (Vouga Basin)

Reference: Ferreira et al. 2002 (as *Nitzschia inconspicua*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia inconspicua* Grunow)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia inconspicua* Grunow)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia inconspicua* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia inconspicua* Grunow)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia inconspicua* Grunow)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço

Reference: Zimmermann 1909a (as *Nitzschia inconspicua* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia inconspicua* Grunow)

***Nitzschia intermedia* Hantzsch ex Cleve & Grunow 1880, p. 95
[CAS ref. 000241]**

Distribution (Fig. 890):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia intermedia* Hantzsch)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Nitzschia intermedia* Hantzsch)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Nitzschia intermedia* Hantzsch)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia intermedia* Hantzsch ex Cleve & Grunow)

***Nitzschia kuetzingiana* Hilse 1860, p. 67 [CAS ref. 002263]**

Synonym: *Nitzschia pusilla* (Kützing) Lange-Bertalot 1976 [CAS ref. 008460], according to Krammer & Lange-Bertalot 1988, p. 111

Distribution (Fig. 891):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Nitzschia kutzingiana*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Nitzschia kutzingiana*)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Nitzschia kutzingiana*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Nitzschia kutzingiana*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia kutzingiana*)

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia kutzingiana*)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia kutzingiana*)

Subregion: Pinhal Interior Sul

Municipality: Mação (District: Santarém)

Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia kutzingiana*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Nitzschia kutzingiana*); Oliveira 1987 (as *Nitzschia kützingiana* Hilse)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia kützingiana* Hilse)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Nitzschia kützingiana* Hilse)

Municipality: Not Specified
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Nitzschia kützingiana*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Nitzschia kützingiana*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Nitzschia kützingiana* Hilse)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Nitzschia kützingiana* Hilse)

REGION: ALGARVE

Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1987 (as *Nitzschia kützingiana* Hilse)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)
Site: Not Specified
Reference: Mölder 1947 (as *Nitzschia kützingiana* Hilse)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Nitzschia kützingiana* Hilse)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Nitzschia kützingiana*)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Nitzschia kützingiana* Hilse)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Nitzschia kützingiana* Hilse)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Nitzschia kützingiana* Hilse)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Nitzschia kützingiana* Hilse); Bourrelly & Manguin 1946a (as *Nitzschia kützingiana* Hilse)
Municipality: Not Specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Nitzschia kützingiana* Hilse); Bourrelly & Manguin 1946a (as *Nitzschia kützingiana* Hilse)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Nitzschia kützingiana* Hilse)

***Nitzschia lacuum* Lange-Bertalot 1980c**, p. 49-50; fig. 91-97, 138-141 [CAS ref. 008464]

Distribution (Fig. 892):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Nitzschia lacuum* Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Nitzschia lacuum* Lange-Bertalot, fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Nitzschia lacuum* Lange-Bertalot)

***Nitzschia liebethruthii* Rabenhorst 1864**, p. 157 [CAS ref. 000775]

Distribution (Fig. 893):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia libertruthii* Rabenhorst)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia liebethruthii* Rabenhorst var. *liebethruthii*)

Nitzschia linearis (C. Agardh) W. Smith 1853, p. 39; pl. 13, fig. 110
[CAS ref. 000863]

Basionym: *Frustulia linearis* C. Agardh fide W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 894):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Nitzschia linearis* (Ag.) W. Sm.)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith var. *linearis*); Ferreira da Silva et al. 2009 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *linearis*)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia linearis* (Agardh) W. Smith)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Prelada

Reference: Silva 1950b (as *Nitzschia linearis* W. Sm.)

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Nitzschia linearis*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia linearis* (Agardh) W. Smith)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia linearis* (Agardh) W. Smith)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Nitzschia linearis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia linearis*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia linearis* W. Smith); Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia linearis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia linearis*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia linearis*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia linearis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia linearis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Nitzschia linearis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia linearis*)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith var. *linearis*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)

- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia linearis* (Agardh) W.M.Smith); Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith); Ferreira da Silva et al. 2009 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *linearis*)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia linearis*)
- Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia linearis*)
- Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia linearis*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia linearis*); Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
- Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia linearis*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Nitzschia linearis* W. Smith)
- Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
- Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia linearis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia linearis*)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia linearis*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia linearis*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia linearis*)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia linearis*); Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia linearis*)
Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 2001 (as *Nitzschia linearis* (Agardh) W. Smith); Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Smith)

Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
References: Nunes et al. 2003 (as *Nitzschia linearis* (Agardh) W.M.Smith); Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M.Smith)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Nitzschia linearis* (Agardh) W.M.Smith)

Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia linearis* W. Smith)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Nitzschia linearis* (Ag.) W. Sm.)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)
Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia linearis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia linearis*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia linearis* W. Smith); Gil et al. 1989-1990 (as *Nitzschia linearis*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Nitzschia linearis* (Agardh) W. Smith)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia linearis* W. Smith)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia linearis*)
 Municipality: Torres Novas (District: Santarém)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia linearis* (Ag.) W. Sm.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia linearis* (Ag.) W. Sm.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia linearis* (Ag.) W. Sm.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia linearis* (Ag.) W. Sm.)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Nitzschia linearis*)
 Site: Runa, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Nitzschia linearis*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Vouga Basin
 Reference: Almeida & Gil 2000 (as *Nitzschia linearis* (Agardh) W. Smith)
 Site: Not Specified
 References: Calado 1990 (as *Nitzschia linearis* W. Smith); Gil et al. 1991 (as *Nitzschia linearis*); Almeida & Gil 2001 (as *Nitzschia linearis* (Agardh) W. Smith)

REGION: LISBOA
 Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Nitzschia linearis*)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia linearis*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia linearis*)

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia linearis*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia linearis*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia linearis* (Agardh) W.M. Smith)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia linearis* (Agardh) W.M. Smith)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
References: Oliveira 1976 (as *Nitzschia linearis* (Ag.) W. Sm.); Oliveira 1984a (as *Nitzschia linearis*)

Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia linearis*)

Subregion: Lezíria do Tejo

Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia linearis*)

Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia linearis*)

Subregion: Not Specified

Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia linearis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)
Site: Flamengos
Reference: Holmboe 1901 (as *Nitzschia linearis* (Ag.) W. Sm.)

Site: Not Specified
 Reference: Johansson 1977 (as *Nitzschia linearis* W. Smith)
 Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa das Sete Cidades
 Reference: Holmboe 1901 (as *Nitzschia linearis* (Ag.) W. Sm.)
 Municipality: Povoação (São Miguel Island)
 Site: Furnas
 References: Holmboe 1901 (as *Nitzschia linearis* (Ag.) W. Sm.); Mölder 1947 (as *Nitzschia linearis* Smith)
 Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
 Reference: Holmboe 1901 (as *Nitzschia linearis* (Ag.) W. Sm.)
 Site: Lagoa das Furnas
 References: Chaves 1908 (as *Nitzschia linearis* Sm.); Manguin 1942 (as *Nitzschia linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Nitzschia linearis* W. Sm.)
 Site: Ribeira Quente
 References: Manguin 1942 (as *Nitzschia linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Nitzschia linearis* W. Sm.); Mölder 1947 (as *Nitzschia linearis* Smith)
 Municipality: Santa Cruz da Graciosa (Graciosa Island)
 Site: Barreiro
 Reference: Azevedo et al. 2005 (as *Nitzschia linearis*)
 Site: Fundão, Caldeira
 Reference: Azevedo et al. 2005 (as *Nitzschia linearis*)
 Municipality: Vila Franca do Campo (São Miguel Island)
 Site: Lagoa do Congro
 References: Manguin 1942 (as *Nitzschia linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Nitzschia linearis* W. Sm.)
 Municipality: Vila do Porto (Santa Maria Island)
 Site: Not Specified
 References: Manguin 1942 (as *Nitzschia linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Nitzschia linearis* W. Sm.)
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Nitzschia linearis* (Agardh) W.M. Smith)
 Municipality: Not Specified
 Site: Faial Island
 Reference: Gonçalves et al. 2010 (as *Nitzschia linearis* (Agardh) W. Smith)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Nitzschia linearis* (Agardh) W. Smith)
 Site: Graciosa Island
 Reference: Gonçalves et al. 2010 (as *Nitzschia linearis* (Agardh) W. Smith)
 Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia linearis* (Agardh) W. Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia linearis* (Agardh) W. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Porto Santo

Reference: Zimmermann 1910-1911 (as *Nitzschia linearis* (Ag.) W. Sm.)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Nitzschia linearis* Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *linearis*)

***Nitzschia linearis* var. *subtilis* Hustedt 1923**, pl. 9, fig. 11 [CAS ref.-]
]

Distribution (Fig. 895):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W. M. Smith var. *subtilis* (Grunow) Hustedt)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W. M. Smith var. *subtilis* (Grunow) Hustedt)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W. M. Smith var. *subtilis* (Grunow) Hustedt)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W. M. Smith var. *subtilis* (Grunow) Hustedt)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W. M. Smith var. *subtilis* (Grunow) Hustedt)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W. M. Smith var. *subtilis* (Grunow) Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia linearis* (Agardh) W. M. Smith var. *subtilis* (Grunow) Hustedt)

***Nitzschia linearis* var. *tenuis* (W. Smith) Grunow in Cleve & Grunow 1880, p. 93 [CAS ref. 000241]**

Basionym: *Nitzschia tenuis* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 896):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *tenuis* (W. Smith) Grunow); Ferreira da Silva et al. 2009 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *tenuis* (W. Smith) Grunow)

Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *tenuis* (W. Smith) Grunow)

Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Sm. var. *tenuis* (W. Smith) Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Sm. var. *tenuis* (W. Smith) Grunow)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Sm. var. *tenuis* (W. Smith) Grunow)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia linearis* (Agardh) W. Sm. var. *tenuis* (W. Smith) Grunow)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *tenuis* (W. Smith) Grunow)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *tenuis* (W. Smith) Grunow)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *tenuis* (W. Smith) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Nitzschia tenuis* Sm.)

Site: Ribeira Quente

References: Manguin 1942 (as *Nitzschia linearis* W. Sm. var. *tenuis* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as *Nitzschia linearis* W. Sm. var. *tenuis* (W. Sm.) Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia linearis* (Agardh) W.M. Smith var. *tenuis* (W. Smith) Grunow)

***Nitzschia longissima* (Brébisson in Kützing) Grunow 1862, p. 581 [CAS ref. 000428]**

Basionym: *Ceratoneis longissima* Brébisson ex Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 897):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia longissima* (Bréb.) Ralfs)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia longissima*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Nitzschia longissima*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Nitzschia longissima*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia longissima*)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia longissima*)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia longissima*)

***Nitzschia lorenziana* Grunow in Cleve & Möller 1879, No. 208-210
[CAS ref. 001977]**

Distribution (Fig. 898):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia lorenziana* Gregory)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia lorenziana* Grunow)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia lorenziana* Grunow)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia lorenziana* Grunow)

***Nitzschia macaronesica* Lange-Bertalot 1993**, p. 148; pl. 112, fig. 6-10, pl. 113, fig. 6 [CAS ref. 008467]

Distribution:

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Not Specified
Site: Not Specified
Reference: Lange-Bertalot 1993 (as *Nitzschia macaronesica* Lange-Bertalot)

***Nitzschia macilenta* W. Gregory in Greville 1859**, p. 83; pl. 6, fig. 8-9 [CAS ref. 000405]

Distribution (Fig. 899):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Nitzschia macilenta* Gregory)

***Nitzschia microcephala* Grunow 1880**, p. 96 [CAS ref. 009613]

Distribution (Fig. 900):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Bragança (District: Bragança)
Site: Izeda
Reference: Zimmermann 1910 (as *Nitzschia microcephala* Grun.)
Municipality: Not Specified
Reference: Zimmermann 1914 (as *Nitzschia microcephala* Grun.)
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Nitzschia microcephala* Grunow); Nunes 2007 (as *Nitzschia microcephala* Grunow in Cleve & Moller)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Nitzschia microcephala* Grunow); Gil et al. 1989-1990 (as *Nitzschia microcephala*); Almeida 1998 (as *Nitzschia microcephala* Grunow)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Nitzschia microcephala* Grunow); Gil et al. 1989-1990 (as *Nitzschia microcephala*)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia microcephala*); Almeida 1998
 (as *Nitzschia microcephala* Grunow)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Nitzschia microcephala* Grunow)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
 River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
 River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia microcephala* Grunow); Gil et al.
 1989-1990 (as *Nitzschia microcephala*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia microcephala*); Almeida 1998
 (as *Nitzschia microcephala* Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia microcephala*)

Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia microcephala* Grunow)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia microcephala* Grunow)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia microcephala* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Nitzschia microcephala* Grunow); Gil et al. 1991 (as *Nitzschia microcephala*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia microcephala* Grunow in Cleve et Möller)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia microcephala* Grunow in Cleve et Möller)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia microcephala* Grunow in Cleve et Möller)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Nitzschia microcephala* Grun.)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Nitzschia microcephala* Grun.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified

References: Manguin 1942 (as *Nitzschia microcephala* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia microcephala* Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia microcephala* Grunow in Cleve & Moller)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia microcephala* Grunow in Cleve & Moller)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia microcephala* Grunow in Cleve & Moller)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia microcephala* Grunow in Cleve & Moller)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Caminho do Meio

Reference: Zimmermann 1909a (as *Nitzschia microcephala* Grun.)

Site: Santa Luzia Stream

Reference: Zimmermann 1909a (as *Nitzschia microcephala* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia microcephala* Grunow in Cleve & Möller)

***Nitzschia minutissima* W. Smith 1853**, p. 41; pl. 13, fig. 107 [CAS ref. 000863]

Distribution (Fig. 901):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Nitzschia minutissima* Sm.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Nitzschia minutissima* Sm., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia minutissima* W. Smith)

***Nitzschia minutula* Grunow in Van Heurck 1881**, pl. 69, fig. 5
[CAS ref. 001035]

Synonym: *Nitzschia perminuta* (Grunow in Van Heurck) Peragallo 1903 [CAS ref. 001463], according to Krammer & Lange-Bertalot 1988, p. 99

Distribution (Fig. 902):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia minutula* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia minutula* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia minutula*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia minutula* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia minutula*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia minutula*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia minutula*)

- Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia minutula*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia minutula* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia minutula*)
- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia minutula*)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia minutula*)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia minutula* Grunow)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia minutula* Grunow)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia minutula* Grunow)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia minutula* Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Nitzschia minutula*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia minutula* Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia minutula* Grunow); Gil et al. 1989-1990 (as *Nitzschia minutula*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Nitzschia minutula* Grunow); Gil et al. 1991 (as *Nitzschia minutula*)

Nitzschia monguilloni Manguin 1942, p. 154; pl. 4, fig. 76 [CAS ref. 000623]

Distribution (Fig. 903):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Nitzschia monguilloni* Manguin);
Bourrelly & Manguin 1946a (as *Nitzschia monguilloni* Manguin)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia monguilloni* Manguin);
Bourrelly & Manguin 1946a (as *Nitzschia monguilloni* Manguin)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia monguilloni* Manguin)

Site: Not Specified

Reference: Bourrelly & Manguin 1946b (as *Nitzschia monguilloni*)

Nitzschia nana Grunow in Van Heurck 1881, pl. 67, fig. 3 [CAS ref. 001035]

Synonym: *Nitzschia ignorata* Krasske 1929 [CAS ref. 000582], according to Krammer & Lange-Bertalot 1988, p. 26

Distribution (Fig. 904):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia nana* Grunow)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia nana* Grunow)

Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Nitzschia nana* Grunow)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia nana* Grunow)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Nitzschia nana* Grunow)

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia nana* Grunow in Van Heurck)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia nana* Grunow in Van Heurck)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Nitzschia nana* Grunow in Van Heurck)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia nana* Grunow in Van Heurck)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia nana* Grunow in Van Heurck)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Nitzschia nana* Grunow in Van Heurck)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia nana* Grunow in Van Heurck)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia nana* Grunow in Van Heurck)

***Nitzschia obtusa* W. Smith 1853**, p. 39; pl. 13, fig. 109 [CAS ref. 000863]

Distribution (Fig. 905):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia obtusa* W. Smith)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia obtusa* W. Smith); Gil et al. 1989-1990 (as *Nitzschia obtusa*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Nitzschia obtusa* W. Smith)
 Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia obtusa* W. Smith); Gil et al. 1989-1990 (as *Nitzschia obtusa*)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia obtusa* W. Smith)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)

Site: Vila Patrício
Reference: Carvalho 1913 (as *Nitzschia obtusa* W. Sm.)
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Nitzschia obtusa* W. Smith)

REGION: ALENTEJO
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Nitzschia obtusa*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia obtusa*)

REGION: ALGARVE
Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Nitzschia obtusa*)
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Nitzschia obtusa*)

***Nitzschia palea* (Kützing) W. Smith 1856**, p. 89 [CAS ref. 001007]

Basionym: *Synedra palea* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 906):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

- Reference: Oliveira 1982a (as *Nitzschia palea*)
- Subregion: Cávado
- Municipality: Braga (District: Braga)
- Site: Padim da Graça, Cávado River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Nitzschia palea*)
- Municipality: Not Specified
- Site: Entrepontes, Cávado River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Nitzschia palea*)
- Site: Homem River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Nitzschia palea*)
- Subregion: Entre Douro e Vouga
- Municipality: Arouca (District: Aveiro)
- Site: Serra da Freita, Arões, Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith);
Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith); Ferreira da Silva et al.
2009 (as *Nitzschia palea* (Kütz.) W. Smith)
- Municipality: Oliveira de Azeméis (District: Aveiro)
- Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith);
Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Municipality: São João da Madeira (District: Aveiro)
- Site: Ui River (Vouga Basin)
- Reference: Resende et al. 2009 (as *Nitzschia palea* (Kützing) W. Smith)
- Municipality: Vale de Cambra (District: Aveiro)
- Site: Barbeito, Caima River (Vouga Basin)
- References: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith);
Almeida 2001 (as *Nitzschia palea* (Kütz.) W. Smith); Nunes et al. 2003
(as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea*
(Kütz.) W. Smith)
- Site: São Pedro de Castelões, Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith);
Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Vale de Cambra, Caima River (Vouga Basin)
- Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
- Subregion: Grande Porto
- Municipality: Porto (District: Porto)
- Site: Not Specified
- Reference: Colmeiro 1889 (as *Nitzschia palea* W. Sm.)
- Municipality: Vila Nova de Gaia (District: Porto)
- Site: Febros River (Douro Basin)
- Reference: Cerqueira da Silva 1993 (as *Nitzschia palea*)
- Subregion: Minho-Lima
- Municipality: Monção (District: Viana do Castelo)
- Site: Monção, Minho River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Nitzschia palea*)
- Municipality: Not Specified

- Site: Ínsua do Ranhão, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia palea*)
- Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Nitzschia palea*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Tâmega River (Douro Basin)
 Reference: Cerqueira da Silva & Cunha 1992 (as *Nitzschia palea*)
- REGION: CENTRO
- Subregion: Baixo Mondego
 Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: de Figueiredo et al. 2006 (as *Nitzschia palea* (Kützing) W. Smith)
- Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Oliveira 1971a (as *Nitzschia palea*)
- Municipality: Soure (District: Coimbra)
 Site: Irrigation channel near Soure
 Reference: Santos et al. 2002 (as *Nitzschia palea* (Kützing) W. Smith)
- Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*); Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia palea*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)

- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Nitzschia palea* (Kützing) W. Smith); Ferreira da Silva et al. 2009 (as *Nitzschia palea* (Kütz.) W. Smith)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith); Ferreira da Silva et al. 2009 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
- Site: Ribeira de Fráguas (downstream of the Caima paper factory) Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes et al. 2002 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith); Ferreira da Silva et al. 2009 (as *Nitzschia palea* (Kütz.) W. Smith)

- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith); Ferreira da Silva et al. 2009 (as *Nitzschia palea* (Kütz.) W. Smith)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia palea*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia palea*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia palea*)
Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia palea*); Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia palea*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Nitzschia palea* (Koetz.) W. Smith)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia palea*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia palea*)

- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia palea*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia palea*); Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia palea*)
 Site: Vila Verde, Levira River (Vouga Basin)
 References: Almeida 1998 (as *Nitzschia palea* (Kützing) W. Smith); Almeida 2001 (as *Nitzschia palea* (Kütz.) W. Smith)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia palea* (Kützing) W. Smith); Nunes 2007 (as *Nitzschia palea* (Kütz.) W. Smith)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia palea* (Kützing) W. Smith)
- Subregion: Beira Interior Norte
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.)

- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.); Santos & Carvalho 2001 (as *Nitzschia palea* (Kuetz.) W. Sm.)
- Site: Vela
Reference: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Nitzschia palea* (Kuetz.) W. Sm.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Nitzschia palea* (Kuetz.) W. Sm.)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia palea*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Nitzschia palea* (Kützing) W. Smith)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Nitzschia palea*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith); Gil et al. 1989-1990 (as *Nitzschia palea*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia palea*)
- Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia palea*)
- Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia palea*)

- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Nitzschia palea*); Ferreira 1986 (as *Nitzschia palea*); Brito & Andrade 1992 (as *Nitzschia palea*)
- Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1970 (as *Nitzschia palea* (Kütz.) W. Sm.)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia palea* (Kg.) W. Sm.)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia palea* (Kg.) W. Sm.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia palea* (Kg.) W. Sm.)
 Site: Ribeira Branca, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia palea* (Kg.) W. Sm.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia palea*)
- Subregion: Oeste
- Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Nitzschia palea*)
 Site: Runa, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Nitzschia palea*)
 Site: Varatojo, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Nitzschia palea*)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
 Reference: Oliveira 1982b (as *Nitzschia palea*)
- Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Nitzschia palea*)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Nitzschia palea*)
- Subregion: Pinhal Interior Sul
- Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Nitzschia palea*)
- Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Nitzschia palea*)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Nitzschia palea* (Kützing) W. Smith)

Subregion: Not Specified
Municipality: Not Specified
Site: Impacted site after BKME discharge, Vouga River (Vouga Basin)
Reference: Ferreira et al. 2002 (as *Nitzschia palea*)
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Nitzschia palea*)
Site: Not Specified
References: Calado 1990 (as *Nitzschia palea* (Kützing) W. Smith); Gil et al. 1991 (as *Nitzschia palea*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Nitzschia palea*)
Municipality: Sintra (District: Lisboa)
Site: Mula Reservoir, Mula Stream (Western Streams Basin)
Reference: Ferreira 1986 (as *Nitzschia palea*)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Nitzschia palea*); Rodrigues & Moita 1979b (as *Nitzschia palea*); Fernandes et al. 1987 (as *Nitzschia palea*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Nitzschia palea*); Oliveira 1984b (as *Nitzschia palea*); Oliveira 1987 (as *Nitzschia palea* (Kz.) W. Sm)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
Reference: Andrade & Brito 1995 (as *Nitzschia palea*)
Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia palea*)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1984a (as *Nitzschia palea*)
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia palea*)
Subregion: Alto Alentejo

- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Nitzschia palea*)
- Municipality: Castelo de Vide (District: Portalegre)
 Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Nitzschia palea*)
- Municipality: Elvas, Portalegre (District: Portalegre)
 Site: Caia Reservoir, Caia River (Guadiana Basin)
 Reference: Oliveira 1984a (as *Nitzschia palea*)
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Nitzschia palea* (Kg.) W. Sm); Fernandes et al. 1987 (as *Nitzschia palea*)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Nitzschia palea*)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia palea*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Nitzschia palea* (Kg.) W. Sm); Fernandes et al. 1987 (as *Nitzschia palea*)
- Subregion: Baixo Alentejo
- Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia palea* (Kützing) W. Smith)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Nitzschia palea* (Kützing) W. Smith)
 Site: Roxo Reservoir, Roxo Stream (Sado Basin)
 References: Oliveira 1976 (as *Nitzschia palea* (Kg.) W. Sm); Oliveira 1984a (as *Nitzschia palea*)
- Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Nitzschia palea*)
- Municipality: Ferreira do Alentejo (District: Beja)
 Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Nitzschia palea*)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia palea*)
- Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia palea*)
- Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Nitzschia palea*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Nitzschia palea*); Brito & Andrade
1992 (as *Nitzschia palea*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia palea*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Nitzschia palea*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Nitzschia palea* (Kütz.) Smith)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Nitzschia palea* (Kützing) W. Smith)
Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Nitzschia palea* (Kütz.) Smith)
Municipality: Corvo (Corvo Island)
Site: Not Specified
Reference: Mölder 1947 (as *Nitzschia palea* (Kütz.) Smith)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Nitzschia palea* (Kütz.) Smith)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Nitzschia palea* Ktz.); Mölder 1947 (as
Nitzschia palea (Kütz.) Smith); Gonçalves 1997 (as *Nitzschia palea*)
Site: Pico da Vara
Reference: Mölder 1947 (as *Nitzschia palea* (Kütz.) Smith)
Site: Ribeira Quente
References: Manguin 1942 (as *Nitzschia palea* (Kütz.) W. Sm.);
Bourrelly & Manguin 1946a (as *Nitzschia palea* (Kütz.) W. Sm.); Mölder
1947 (as *Nitzschia palea* (Kütz.) Smith)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Nitzschia palea* (Kützing) W. Smith)
Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande
References: Manguin 1942 (as *Nitzschia palea* (Kütz.) W. Sm.);
Bourrelly & Manguin 1946a (as *Nitzschia palea* (Kütz.) W. Sm.)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Nitzschia palea*)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Nitzschia palea*)
Site: Tanque
Reference: Azevedo et al. 2005 (as *Nitzschia palea*)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Nitzschia palea* (Kütz.) W. Sm.);
Bourrelly & Manguin 1946a (as *Nitzschia palea* (Kütz.) W. Sm.)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: São Jorge Island
References: Johansson 1977 (as *Nitzschia palea* (Kütz.) W. Smith);
Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: São Miguel Island (middle and downstream sites)
Reference: Gonçalves et al. 2008 (as *Nitzschia palea*)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Nitzschia palea* (Kützing) W. Smith)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia palea* (Kützing) W. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Nitzschia palea* (Kütz.) Smith)
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Nitzschia palea* (Kuetz.) W. Sm.)
Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava

Reference: Mölder 1947 (as *Nitzschia palea* (Kütz.) Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia palea* (Kützing) W. Smith)

***Nitzschia palea* var. *debilis* (Kützing) Grunow in Cleve & Grunow 1880, p. 96 [CAS ref. 000241]**

Basionym: *Synedra debilis* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 907):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *debilis*)

- Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *debilis*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *debilis*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia palea* v. *debilis*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia palea* (Kütz.) W. Smith v. *debilis* (Kütz.) Grunow)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Nitzschia palea* var. *debilis* (Kützing) Grunow)
- Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Nitzschia palea* var. *debilis* (Kützing) Grunow)
- REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: INAG I.P. 2008 (as *Nitzschia palea* (Kützing) W. Smith var. *debilis* (Kützing) Grunow in Van Heurck)

***Nitzschia palea* f. *dubia* Manguin 1942**, p. 155; pl. 4, fig. 78 [CAS ref. 000623]

Distribution (Fig. 908):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia palea* (Kütz.) W. Sm. fo. dubia Manguin); Bourrelly & Manguin 1946a (as *Nitzschia palea* (Kütz.) W. Sm. fo. dubia Manguin)

***Nitzschia paleacea* Grunow in Van Heurck 1881**, pl. 68, fig. 9-10
[CAS ref. 001035]

Nomenclatural synonym: *Nitzschia subtilis* var. *paleacea* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 909):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia paleacea* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*); Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia paleacea* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia paleacea* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia paleacea* Grunow)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)

Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia paleacea* Grunow)

Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)

Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)

Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)

Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia paleacea*); Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)

Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Nitzschia paleacea* Grunow)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

- References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia paleacea*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia paleacea* Grunow); Almeida 2001 (as *Nitzschia paleacea* Grunow)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia paleacea* Grunow)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Cubo
 Reference: Carvalho 1913 (as *Nitzschia subtilis* (Kuetz.?) Grun. var. *paleaceae* Grun.)
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Nitzschia paleacea* Grunow)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia paleacea* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Nitzschia paleacea* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia paleacea* Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia paleacea* Grunow); Gil et al. 1989-1990 (as *Nitzschia paleacea*)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Nitzschia paleacea*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Nitzschia paleacea*)
 Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Nitzschia subtilis* var. *paleacea* Grun.)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Nitzschia paleacea* Grunow)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Nitzschia paleacea* Grunow)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Nitzschia paleacea* Grunow); Gil et al. 1991 (as *Nitzschia paleacea*)
 REGION: ALENTEJO
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia paleacea* Grunow in van Heurck)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Nitzschia paleacea*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia paleacea* (Grunow) Grunow in van Heurck)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia paleacea* (Grunow) Grunow in van Heurck)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia paleacea* (Grunow) Grunow in van Heurck)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Nitzschia paleacea* (Grunow) Grunow)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia paleacea* (Grunow) Grunow in van Heurck)

***Nitzschia paleaeformis* Hustedt 1950**, p. 439; pl. 39, fig. 6-14 [CAS ref. 000522]

Distribution (Fig. 910):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia paleaeformis* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia paleaeformis* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Nitzschia paleaeformis*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia paleaeformis* Hustedt)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Nitzschia paleaeformis* Hustedt)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Nitzschia paleaeformis* Hustedt)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia paleaeformis* Hustedt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia paleaeformis* Hustedt)

***Nitzschia parvula* W. Smith 1853**, p. 41; pl. 13, fig. 106 [CAS ref. 000863]

Distribution (Fig. 911):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)

Municipality: Estarreja (District: Aveiro)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia parvula* W. Smith)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia parvula* W. Smith)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia parvula*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia parvula*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia parvula*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia parvula* Lewis nec W. Smith)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Nitzschia parvula*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia parvula*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia parvula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Nitzschia parvula* Sm.)

Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Nitzschia parvula* W. Smith 1853 non Lewis 1862)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia parvula* W. Smith)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Nitzschia parvula* W. Smith)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Zimmermann 1906 (as *Nitzschia parvula* W. Sm.)

***Nitzschia pecten* Brun 1880**, p. 109; pl. 5, fig. 30, pl. 9, fig. 27 [CAS ref. 000174]

Distribution (Fig. 912):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Nitzschia pecten*, fossil)

***Nitzschia perminuta* (Grunow in Van Heurck) Peragallo 1903**, p. 672 [CAS ref. 001463]

Basionym: *Nitzschia frustulum* var. *perminuta* Grunow in Van Heurck 1881 [CAS ref. 001035]

Synonym: *Nitzschia minutula* Grunow in Van Heurck 1881 [CAS ref. 001035], according to Krammer & Lange-Bertalot 1988, p. 99

Distribution (Fig. 913):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Arouca (District: Aveiro)
Site: Serra da Freita, Arões, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Nitzschia perminuta* (Grunow) M. Peragallo); Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo);

- Ferreira da Silva et al. 2009 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
- Municipality: Oliveira de Azeméis (District: Aveiro)
 Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
- Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Nitzschia perminuta* (Grunow) Peragallo)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 References: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo);
 Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)

REGION: CENTRO

Subregion: Baixo Mondego

- Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Nitzschia perminuta* (Grunow) M. Peragallo)

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 References: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo);
 Ferreira da Silva et al. 2009 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Nitzschia perminuta* (Grunow) M. Peragallo);
 Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
- References: Nunes et al. 2002 (as *Nitzschia perminuta* (Grunow) M. Peragallo); Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo); Ferreira da Silva et al. 2009 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Nitzschia perminuta* (Grunow) M. Peragallo); Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo); Ferreira da Silva et al. 2009 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia perminuta* (Grunow) Peragallo)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia perminuta* (Grunow) M. Peragallo)
Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia perminuta* (Grunow) M. Peragallo)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia perminuta* (Grunow) M. Peragallo)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia perminuta* (Grunow) M. Peragallo)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia perminuta* (Grunow) M. Peragallo)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia perminuta* (Grunow) M. Peragallo)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia perminuta* (Grunow) Peragallo)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia perminuta* (Grunow) M. Peragallo)

Nitzschia perspicua Cholnoky 1960, p. 262; fig. 36 [CAS ref. 000209]

Distribution (Fig. 914):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia perspicua* Cholnoky)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia perspicua* Cholnoky)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia perspicua* Cholnoky)

Nitzschia pseudoamphioxys Hustedt 1942c, p. 135; fig. 301-308 [CAS ref. 000516]

Distribution (Fig. 915):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Nitzschia pseudoamphioxys* Hust.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Nitzschia pseudoamphioxys* Hust.)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Coutada, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Nitzschia pseudoamphioxys*)

Site: Runa, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Nitzschia pseudoamphioxys*)

Site: Varatojo, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Nitzschia pseudoamphioxys*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia pseudoamphioxys* Hustedt)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Nitzschia pseudoamphioxys*)

Nitzschia pseudofonticola Hustedt 1942a, p. 209; fig. 4-5 [CAS ref. 000517]

Distribution (Fig. 916):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Nitzschia pseudofonticola* Hustedt)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia pseudofonticola* Hustedt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia pseudofonticola* Hustedt)

Nitzschia pumila Hustedt 1954b, p. 480; fig. 67-69 [CAS ref. 000529]

Distribution (Fig. 917):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pumila* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Nitzschia pumila*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia pumila* Hustedt)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Nitzschia pumila* Hustedt)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia pumila* Hustedt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia pumila* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia pumila* Hustedt)

***Nitzschia pusilla* (Kützing) Lange-Bertalot 1976**, v. 28: p. 300; pl. 7, fig. 1-10 [CAS ref. 008460]

Synonym: *Nitzschia kuetzingiana* Hilse 1860 [CAS ref. 002263], according to Krammer & Lange-Bertalot 1988, p. 111

Distribution (Fig. 918):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia pusilla* (Kützing) Grunow)
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia pusilla* Grunow)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia pusilla*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia pusilla*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia pusilla* (Kützing) Grunow)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia pusilla* (Kützing) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Tanque
Reference: Azevedo et al. 2005 (as *Nitzschia pusilla*)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Nitzschia pusilla* (Kützing) Grunow)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia pusilla* (Kützing) Grunow)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Nitzschia pusilla* (Kützing) Grunow)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Nitzschia pusilla* (Kützing) Grunow)

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Nitzschia pusilla* (Kützing) Grunow)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia pusilla* (Kützing) Grunow)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia pusilla* (Kützing) Grunow)

***Nitzschia recta* Hantzsch ex Rabenhorst 1862b**, No. 1283 [CAS ref. 011631]

Nomenclatural synonym: *Nitzschia vitrea* var. *recta* (Hantzsch ex Rabenhorst) Van Heuck 1885 [CAS ref. 001040]

Distribution (Fig. 919):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia recta* Hantzsch)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Nitzschia recta* Hantzsch); Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia recta* Hantzsch)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*); Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia recta*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia recta* Hantzsch)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)
 Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia recta*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia recta*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia recta*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia recta*)
 Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Nitzschia recta* Hantzsch)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia recta* Hantzsch)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)

Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia recta*)

Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia recta*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia recta*)

Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia recta*); Almeida 1998 (as *Nitzschia recta* Hantzsch)

Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia recta*)

Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Nitzschia recta* Hantzsch ex Rabenhorst)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)

- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Nitzschia vitrea* Norm. var. *recta* (Hantzsch.)); Santos & Carvalho 2001 (as *Nitzschia vitrea* Norm. var. *recta* (Hantzsch.))
- Site: Vela
Reference: Carvalho 1913 (as *Nitzschia vitrea* Norm. var. *recta* (Hantzsch.))
- Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Nitzschia recta*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia recta* Hantzsch)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia recta* Hantzsch)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Nitzschia recta* Hantzsch)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Nitzschia recta*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia recta* Hantzsch)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia recta* Hantzsch); Gil et al. 1989-1990 (as *Nitzschia recta*)
- Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Nitzschia recta*)
- Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia recta*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

References: Calado 1990 (as *Nitzschia recta* Hantzsch); Gil et al. 1991 (as *Nitzschia recta*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia recta* Hantzsch.)

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Nitzschia recta* Hantzsch)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia recta* Hantzsch in Rabenhorst)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia recta* Hantzsch in Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia* cf. *recta* Hantzsch in Rabenhorst)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia recta* Hantzsch in Rabenhorst)

***Nitzschia reversa* W. Smith 1853**, p. 43; pl. 15, fig. 121 [CAS ref. 000863]

Nomenclatural synonym: *Nitzschia longissima* var. *reversa* Grunow in Cleve & Grunow 1880, p. 100 [CAS ref. 000241]

Distribution (Fig. 920):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia reversa* W. Smith)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Nitzschia reversa* W. Smith)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia reversa* W. Smith)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia reversa* W. Smith)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia reversa* W. Smith)
Subregion: Not Specified
Municipality: Not Specified
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Nitzschia reversa* W. Smith)
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Nitzschia reversa* W. Smith)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia longissima* var. *reversa*)

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia longissima* var. *reversa*)

***Nitzschia romana* Grunow in Van Heurck 1881**, pl. 69, fig. 12-13
[CAS ref. 001035]

Nomenclatural synonym: *Nitzschia palea* var. *romana* Grunow 1880 [CAS ref. 009613]

Synonym: *Nitzschia fonticola* (Grunow) Grunow in Van Heurck 1881 [CAS ref. 001035], according to Krammer & Lange-Bertalot 1988, p. 103

Distribution (Fig. 921):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia romana* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia romana* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia romana* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Site: Raivo, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Nitzschia romana*)
 Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Nitzschia romana*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
- Reference: Calado 1991 (as *Nitzschia romana* Grunow)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Nitzschia romana* Grunow)
- REGION: AUTONOMOUS REGION OF AZORES**
 Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Achada
 Reference: Mölder 1947 (as *Nitzschia romana* Grun.)
 Municipality: Calheta (São Jorge Island)
 Site: Pico do Calheta

Reference: Mölder 1947 (as *Nitzschia romana* Grun.)
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
Reference: Mölder 1947 (as *Nitzschia romana* Grun.)
Municipality: Praia da Vitória (Terceira Island)
Site: Fonduras
Reference: Mölder 1947 (as *Nitzschia romana* Grun.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Not Specified
Reference: Mölder 1947 (as *Nitzschia romana* Grun.)

***Nitzschia rosenstockii* Lange-Bertalot 1980c**, p. 52-53; fig. 30-33,
133-136 [CAS ref. 008464]

Distribution (Fig. 922):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia rosenstockii* Lange-Bertalot)

***Nitzschia rostellata* Hustedt 1956**, p. 127; fig. 69-70 [CAS ref.
000531]

Distribution (Fig. 923):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Anadia (District: Aveiro)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia rostellata*)

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Mértola (District: Beja)
Site: Reservoir in the abandoned São Domingos mine
Reference: Gerhardt et al. 2008 (as *Nitzschia rostellata* Hustedt)

***Nitzschia ruttneri* Hustedt 1937c**, p. 477; pl. 41, fig. 13-16 [CAS ref.
001013]

Distribution (Fig. 924):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Nitzschia ruttneri* Hust.); Bourrelly & Manguin 1946a (as *Nitzschia ruttneri* Hust.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Nitzschia ruttneri* Hust.); Bourrelly & Manguin 1946a (as *Nitzschia ruttneri* Hust.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Nitzschia ruttneri* Hust.); Bourrelly & Manguin 1946a (as *Nitzschia ruttneri* Hust.)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia ruttneri* Hust.); Bourrelly & Manguin 1946a (as *Nitzschia ruttneri* Hust.)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Nitzschia ruttneri* Hust.); Bourrelly & Manguin 1946a (as *Nitzschia ruttneri* Hust.)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Nitzschia ruttneri* Hust.); Bourrelly & Manguin 1946a (as *Nitzschia ruttneri* Hust.)

Site: Not Specified

Reference: Bourrelly & Manguin 1946b (as *Nitzschia ruttneri*)

***Nitzschia scalpelliformis* Grunow in Cleve & Grunow 1880, p. 92
[CAS ref. 000241]**

Nomenclatural synonym: *Nitzschia obtusa* var. *scalpelliformis* (Grunow) Grunow
in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 925):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia scalpelliformis* (Grunow))

REGION: CENTRO

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow); Gil et al. 1989-1990 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow); Gil et al. 1989-1990 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Municipality: Anadia (District: Aveiro)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow); Gil et al. 1989-1990 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia obtusa* v. *scalpelliformis*)

- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Nitzschia obtusa* W. Sm. v. *scalpelliformis* Grun.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Nitzschia obtusa* W. Sm. v. *scalpelliformis* Grun.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow); Gil et al. 1989-1990 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow); Gil et al. 1989-1990 (as *Nitzschia obtusa* v. *scalpelliformis*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Nitzschia obtusa* W. Smith v. *scalpelliformis* Grunow); Gil et al. 1991 (as *Nitzschia obtusa* v. *scalpelliformis*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Nitzschia obtusa* Smith. var. *scalpelliformis* Grun.)
- Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário

Reference: Mölder 1947 (as *Nitzschia obtusa* Smith. var. *scalpelliformis* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Nitzschia obtusa* Smith. var. *scalpelliformis* Grun.)

Municipality: Not Specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Nitzschia scalpelliformis* (Grunow) Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia scalpelliformis* (Grunow) Grunow)

***Nitzschia sigma* (Kützing) W. Smith 1853**, p. 39; pl. 13, fig. 108
[CAS ref. 000863]

Distribution (Fig. 926):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia sigma* (Kützing) W. Smith)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia sigma* (Kützing) W. Smith)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigma*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Nitzschia sigma* (Koetz.) W. Smith)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sigma* (Kützing) W. Smith)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sigma* (Kützing) W. Smith)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sigma* (Kützing) W. Smith)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sigma* (Kützing) W. Smith)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sigma* (Kützing) W. Smith)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigma*)
Subregion: Beira Interior Sul
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Nitzschia sigma*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Nitzschia sigma* W. Smith)
Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia sigma*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia sigma*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia sigma*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Nitzschia sigma* (Kütz.) W. Smith)
Site: Ribeira Quente
Reference: Mölder 1947 (as *Nitzschia sigma* (Kütz.) W. Smith)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Nitzschia sigma* (Kütz.) W. Sm.);
Bourrelly & Manguin 1946a (as *Nitzschia sigma* (Kütz.) W. Sm.)
Municipality: Not Specified
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Nitzschia sigma* (Kützing) W. Smith)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia sigma* (Kützing) W. Smith)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia sigma* (Kützing) W.M. Smith)

***Nitzschia sigma* var. *rigidula* (H. Peragallo & Peragallo) Grunow
in Van Heurck 1881, p. 179; pl. 66, fig. 8 [CAS ref. 001035]**

Distribution (Fig. 927):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cubo
Reference: Carvalho 1913 (as *Nitzschia sigma* (Kuetz.) W. Sm. var.
rigidula Grun.)
Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)
Site: Coutada, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Nitzschia sigma* var. *rigidula*)
Site: Runa, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Nitzschia sigma* var. *rigidula*)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Nitzschia sigma* var. *rigidula*)

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia sigma* var. *rigidula*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Nitzschia sigma* var. *rigidula*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Nitzschia sigma* (Kütz.) W. Sm. var. *rigidula* Grun.)
Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Nitzschia sigma* var. *rigidula*)

***Nitzschia sigmoidea* (Nitzsch) W. Smith 1853**, p. 38; pl. 13, fig. 104
[CAS ref. 000863]

Basionym: *Bacillaria sigmoidea* Nitzsch 1817 [CAS ref. 000684]

Distribution (Fig. 928):

REGION: NORTE
Subregion: Cávado
Municipality: Braga (District: Braga)
Site: Padim da Graça, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Nitzschia sigmoidea*)
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)

Subregion: Minho-Lima

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Nitzschia sigmoidea*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)

Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Nitzschia sigmoidea*); Almeida 1998 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia sigmoidea*); Almeida 1998 (as
Nitzschia sigmoidea (Nitzsch) W. Smith)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia sigmoidea*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Nitzschia sigmoidea* (Nitzsch) W. M. Smith)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga
 Basin)
 Reference: Nunes 2007 (as *Nitzschia sigmoidea* (Nitzsch) W. M. Smith)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia sigmoidea* (Ehrenberg) W. Smith)
 Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Zimmermann 1909b (as *Nitzschia sigmoidea* (Nitzsch) W.
 Sm.)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Nitzschia sigmoidea*); Cerqueira
 da Silva et al. 1993 (as *Nitzschia sigmoidea*)
 Site: Not Specified
 Reference: Almeida & Gil 2001 (as *Nitzschia sigmoidea* (Nitzsch) W.
 Smith)

REGION: LISBOA

Subregion: Grande Lisboa
 Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Nitzschia sigmoidea*)

REGION: ALENTEJO

Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Nitzschia sigmoidea*)

Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia sigmoidea*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Nitzschia sigmoidea* (Ehr.) Smith)
Municipality: Not Specified
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia sigmoidea* (Nitzsch) W. Smith)

***Nitzschia sinuata* (Thwaites in Smith) Grunow in Cleve & Grunow 1880, p. 82 [CAS ref. 000241]**

Basionym: *Denticula sinuata* Thwaites in Smith 1856 [CAS ref. 001007]

Distribution (Fig. 929):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia sinuata* W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia sinuata* (Thwaites) Grunow)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia sinuata* (Thwaites) Grunow)

***Nitzschia sinuata* var. *delognei* (Grunow in Van Heurck) Lange-Bertalot 1980c, p. 54-55; fig. 77-86, 155, 156 [CAS ref. 008464]**

Basionym: *Nitzschia denticula* (*denticulata*) var. *delognei* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 930):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Nitzschia denticula* Grun. var. *delognei* Grun.)

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia sinuata* var. *delognei* (Grunow) Lange-Bertalot)

***Nitzschia sociabilis* Hustedt 1957**, p. 354; fig. 91-94 [CAS ref. 000532]

Synonym: *Nitzschia subtubicola* H. Germain 1981 CAS ref. 009183], according to Krammer & Lange-Bertalot 1988, p. 119

Distribution (Fig. 931):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sociabilis* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sociabilis* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sociabilis* Hustedt)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (*Nitzschia sociabilis* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sociabilis* Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia sociabilis* Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: Calado 1990 (as *Nitzschia sociabilis* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia sociabilis* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia sociabilis* Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia sociabilis* Hustedt)

***Nitzschia solgensis* Cleve-Euler 1952**, p. 67; fig. 1451 c, d [CAS ref. 001044]

Distribution (Fig. 932):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia solgensis* Cleve-Euler)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia solgensis* Cleve-Euler)

***Nitzschia solita* Hustedt 1953**, p. 152; fig. 3, 4 [CAS ref. 000526]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia solita* Hustedt)

***Nitzschia stagnorum* Rabenhorst 1848-1860**, no. 625 [CAS ref. 000771]

Distribution (Fig. 933):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia stagnorum*)

Municipality: Ovar (District: Aveiro)

Reference: Zimmermann 1910 (as *Nitzschia stagnorum* Rabenh.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst); Gil et al. 1989-1990 (as *Nitzschia stagnorum*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Nitzschia stagnorum* Rabenhorst); Gil et al. 1989-1990 (as *Nitzschia stagnorum*)

***Nitzschia subacicularis* Hustedt in Schmidt 1922**, pl. 348, fig. 76
[CAS ref. 012507]

Distribution (Fig. 934):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subacicularis* Hustedt)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subacicularis* Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subacicularis* Hustedt)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subacicularis* Hustedt)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subacicularis* Hustedt)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subacicularis* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia subacicularis* Hustedt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia subacicularis* Hustedt in A. Schmidt *et al.*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia subacicularis* Hustedt in A. Schmidt *et al.*)

***Nitzschia subcapitellata* Hustedt 1939**, p. 633; fig. 109 [CAS ref. 000514]

Distribution (Fig. 935):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia subcapitellata*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia subcapitellata*)

Municipality: Mealhada (District: Aveiro)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia subcapitellata*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia subcapitellata*)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia subcapitellata*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia subcapitellata*)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Nitzschia subcapitellata* Hustedt)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Nitzschia subcapitellata*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Nitzschia subcapitellata*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Nitzschia subcapitellata* Hustedt)

Nitzschia sublinearis Hustedt in Schmidt 1921, pl. 334, fig. 27-29
[CAS ref. 012504]

Distribution (Fig. 936):

REGION: CENTRO

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Nitzschia sublinearis* Hustedt)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Nitzschia sublinearis*); Oliveira
1996 (as *Nitzschia sublinearis*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia sublinearis* Hustedt)

Subregion: Baixo Alentejo

Municipality: Mértola (District: Beja)

Site: Acid mine drainage of the São Domingos mine

Reference: Gerhardt et al. 2008 (as *Nitzschia sublinearis* Hustedt)

Site: Reservoir in the abandoned São Domingos mine

Reference: Gerhardt et al. 2008 (as *Nitzschia sublinearis* Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana
Basin)

Reference: Gerhardt et al. 2008 (as *Nitzschia sublinearis* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Nitzschia sublinearis* Hust.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia sublinearis* Hustedt)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Nitzschia sublinearis* Hustedt)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Nitzschia sublinearis* Hust.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Nitzschia sublinearis* Hust.)

***Nitzschia subtilis* (Kützing) Grunow in Cleve & Grunow 1880, p. 95 [CAS ref. 000241]**

Basionym: *Synedra subtilis* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 937):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)
Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Nitzschia subtilis*)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Nitzschia subtilis*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)
Site: Salamonde Reservoir, Cávado River (Cávado Basin)
Reference: Oliveira 1982a (as *Nitzschia subtilis*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)

Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia subtilis* Grunow)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Nitzschia subtilis* (Kuetz.?) Grun.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Nitzschia subtilis* (Kuetz.?) Grun.); Santos & Carvalho 2001 (as *Nitzschia subtilis* (Kuetz.?) Grun.)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Nitzschia subtilis*)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Runa, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Nitzschia subtilis*)
Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia subtilis*)
Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia subtilis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Nitzschia subtilis* Grunow)
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Nitzschia subtilis* Grunow)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Nitzschia subtilis*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Nitzschia subtilis*); Oliveira 1984b (as *Nitzschia subtilis*); Oliveira 1987 (as *Nitzschia subtilis* (Kz.) Grun.)

- Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Oliveira & Monteiro 1995 (as *Nitzschia subtilis*); Oliveira 1996 (as *Nitzschia subtilis*)
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
 Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Nitzschia subtilis* Grunow)
 Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
- Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
- Municipality: Santiago do Cacém (District: Setúbal)
 Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Nitzschia subtilis*)
- Municipality: Castelo de Vide (District: Portalegre)
 Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
- Municipality: Gavião (District: Portalegre)
 Site: Belder Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Nitzschia subtilis* (Kütz.) Grun.)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Nitzschia subtilis*)
- Municipality: Nisa (District: Portalegre)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Nitzschia subtilis* (Kütz.) Grun.)
- Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
- Subregion: Baixo Alentejo
- Municipality: Ferreira do Alentejo (District: Beja)
 Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
- Municipality: Ourique (District: Beja)
 Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
 Reference: Oliveira 1984a (as *Nitzschia subtilis*)
- Subregion: Lezíria do Tejo
- Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Nitzschia subtilis*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)

Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Nitzschia subtilis*)

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Nitzschia subtilis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Nitzschia subtilis*)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia subtilis* (Kützing)
Grunow)

***Nitzschia subtubicola* H. Germain 1981**, p. 349; pl. 131, fig. 12-15,
pl. 166, fig. 2, 3 [CAS ref. 009183]

Synonym: *Nitzschia sociabilis* Hustedt 1957 [CAS ref. 000532], according to
Krammer & Lange-Bertalot 1988, p. 119

Distribution (Fig. 938):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)

Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia subtubicola* Germain)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia subtubicola*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Nitzschia subtubicola*)

***Nitzschia suchlandtii* Hustedt 1943**, p. 233; fig. 53-56 [CAS ref. 001708]

Distribution (Fig. 939):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia suchlandtii* Hustedt)

***Nitzschia supralitorea* Lange-Bertalot 1979a**, p. 215; fig. 25-27, 76-78 [CAS ref. 008463]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Nitzschia supralitorea* Lange-Bertalot)

***Nitzschia tabellaria* (Grunow) Grunow in Cleve & Grunow 1880**, p. 82 [CAS ref. 000241]

Basionym: *Denticula tabellaria* Grunow 1862 [CAS ref. 000428]

Nomenclatural synonym: *Nitzschia sinuata* var. *tabellaria* (Grunow) Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 940):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Nitzschia sinuata* var. *tabellaria* Grun.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Nitzschia sinuata* var. *tabellaria* Grun.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Nitzschia sinuata* var. *tabellaria*)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia sinuata* (Thwaites) Grunow var. *tabellaria* Grunow)

***Nitzschia terrestris* (J.B. Petersen) Hustedt 1934, p. 396 [CAS ref. 000508]**

Basionym: *Nitzschia vermicularis* var. *terrestris* J.B. Petersen 1928a [CAS ref. 000742]

Distribution (Fig. 941):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia terrestris* (Petersen) Hustedt)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Nitzschia terrestris* (Petersen) Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia terrestris* (Petersen) Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Nitzschia terrestris* (Petersen) Hustedt)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia terrestris* (Petersen) Hustedt)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia terrestris* (Petersen) Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia* cf. *terrestris* (Petersen) Hustedt)

***Nitzschia thermalis* (Ehrenberg) Auerswald in Rabenhorst 1861-1882, Nos. 1064, 1266 [CAS ref. 000773]**

Basionym: *Pinnularia thermalis* Ehrenberg 1840a [CAS ref. 000293]

Synonym: *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot 1978 [CAS ref. 008462], according to Krammer & Lange-Bertalot 1988, p. 65

Distribution (Fig. 942):

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia thermalis* (Kützing) Auerswald)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia thermalis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Nitzschia thermalis* (Kütz.) Grun.)
Municipality: Not Specified

Site: São Jorge Island
Reference: Johansson 1977 (as *Nitzschia thermalis* Kütz.)

***Nitzschia thermalis* var. *intermedia* Grunow in Van Heurck 1881,**
(p. 175); pl. 59, fig. 15-19 [CAS ref. 001035]

Distribution (Fig. 943):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Nitzschia thermalis* (Ehr.) Auersw. var. *intermedia*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Nitzschia thermalis* (Ehr.) Auersw. fo. *ad* var. *intermedia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia thermalis* (Ehr.) Auersw. fo. *ad* var. *intermedia* Grun.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Nitzschia thermalis* (Ehr.) Auersw. fo. *ad* var. *intermedia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia thermalis* (Ehr.) Auersw. fo. *ad* var. *intermedia* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Nitzschia thermalis* (Ehr.) Auersw. fo. *ad* var. *intermedia* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia thermalis* (Ehr.) Auersw. fo. *ad* var. *intermedia* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Tanque nos Estanquinhos

Reference: Zimmermann 1910-1911 (as *Nitzschia thermalis* (Ehr.) Auersw. var. *intermedia*)

***Nitzschia thermaloides* Hustedt 1955,** p. 44; pl. 15, ig. 13-15 [CAS ref. 000530]

Distribution (Fig. 944):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia thermaloides* Hustedt)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia thermaloides* Hustedt)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia thermaloides* Hustedt)

***Nitzschia tubicola* Grunow in Cleve & Grunow 1880, p. 97 [CAS ref. 000241]**

Distribution (Fig. 945):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia tubicola* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia tubicola* Grunow)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia* cf. *tubicola* Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia tubicola* Grunow)

***Nitzschia umbonata* (Ehrenberg) Lange-Bertalot 1978**, p. 648-650;
Taf. 1, 2, 4 [CAS ref. 008462]

Basionym: *Navicula umbonata* Ehrenberg 1837b [CAS ref. 000286]

Synonym: *Nitzschia thermalis* (Ehrenberg) Auerswald in Rabenhorst 1861-1882
[CAS ref. 000773], according to Krammer & Lange-Bertalot 1988, p. 65

Distribution (Fig. 946):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Nitzschia umbonata* (Ehrenberg)
Lange-Bertalot)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-
Bertalot)
Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Nitzschia umbonata* (Ehr.) Lange-
Bertalot)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-
Bertalot)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-
Bertalot)
Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 1998 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot); Almeida 2001 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia umbonata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia umbonata* (Ehrenberg) Lange-Bertalot)

***Nitzschia valdecostata* Lange-Bertalot & Simonsen 1978**, p. 58; fig. 260-263, 269, 270 [CAS ref. 008476]

Distribution (Fig. 947):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia valdecostata* Lange-Bertalot & Simonsen)

Nitzschia valdestrata Aleem & Hustedt 1951, p. 19; fig. 5 a-b [CAS ref. 000107]

Distribution (Fig. 948):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia valdestrata* Aleem & Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia valdestrata* Aleem & Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia valdestrata* Aleem & Hustedt)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia valdestrata* Aleem & Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia valdestrata* Aleem & Hustedt)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia valdestrata* Aleem & Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia valdestrata*)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia valdestrata*)

Subregion: Dão-Lafões

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia valdestrata* Aleem & Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia valdestrata* Aleem & Hustedt)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia valdestrata* Aleem & Hustedt)

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia valdestrata* Aleem & Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia valdestriata* Aleem & Hustedt)

***Nitzschia vermicularis* (Kützing) Hantzsch in Rabenhorst 1848-1860**, Alg. Sach. Nr. 889 [CAS ref. 000771]

Basionym: *Frustulia vermicularis* Kützing 1833 [CAS ref. 000594]

Distribution (Fig. 949):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
Reference: Oliveira 1982a (as *Nitzschia vermicularis*)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Nauwerck 1962 (as *Nitzschia vermicularis* (Kg.) Grun.)

Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Nitzschia vermicularis*)

Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Nitzschia vermicularis*)

Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia vermicularis*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Nitzschia vermicularis*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Nitzschia vermicularis*)
Municipality: Torres Novas (District: Santarém)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Nitzschia vermicularis* (Kütz.) Grun.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia vermicularis*)

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia vermicularis*)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia vermicularis*)

Subregion: Pinhal Interior Sul

Municipality: Mação (District: Santarém)

Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia vermicularis*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Nitzschia vermicularis*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984a (as *Nitzschia vermicularis*); Oliveira 1984b (as *Nitzschia vermicularis*); Oliveira 1987 (as *Nitzschia vermicularis* (Kz.) Grun.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Nitzschia vermicularis*); Oliveira 1996 (as *Nitzschia vermicularis*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Nitzschia vermicularis* (Kützing) Grunow)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Nitzschia vermicularis* (Kz.) Grun.)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Nitzschia vermicularis*)

Municipality: Not Specified

Site: Sado Estuary (Sado Basin)

Reference: Oliveira & Coutinho 1992 (as *Nitzschia vermicularis*)

Site: Sado River (Sado Basin)

Reference: Monteiro et al. 1995 (as *Nitzschia vermicularis*)

- Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Nitzschia vermicularis*)
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Nitzschia vermicularis*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Nitzschia vermicularis* (Kütz.) Grun.)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia vermicularis*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Nitzschia vermicularis* (Kütz.) Grun.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Nitzschia vermicularis*)
- Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Nitzschia vermicularis* (Kütz.) Grun.)
Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia vermicularis*)
- Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Nitzschia vermicularis* (Kütz.) Hantz., fossil)
- Subregion: Not Specified
Municipality: Not Specified
Site: Guadiana River (Guadiana Basin)
Reference: Oliveira 1991 (as *Nitzschia vermicularis*)

REGION: ALGARVE

Subregion: Algarve

- Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1987 (as *Nitzschia vermicularis* (Kz.) Grun.)

***Nitzschia vermicularis* var. *flexa* (Schumann) Cleve-Euler 1952, p. 73 [CAS ref. 001044]**

Basionym: *Nitzschia flexa* Schumann 1862 [CAS ref. 000813]

Distribution (Fig. 950):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia flexa* Schumann)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia flexa* Schumann)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia flexa* Schumann)

***Nitzschia vitrea* G. Norman 1861**, p. 7; pl. 2, fig. 4 [CAS ref. 000686]

Distribution (Fig. 951):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia vitrea*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Nitzschia vitrea* Norman)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Nitzschia vitrea* G. Norman)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia vitrea* G. Norman)

***Nitzschia vitrea* var. *salinarum* Grunow 1880**, p. 94 [CAS ref. 009613]

Distribution (Fig. 952):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Nitzschia vitrea* Norm. var. *salinarum* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia vitrea* Norm. var. *salinarum* Grun.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Nitzschia vitrea* Norm. var. *salinarum* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia vitrea* Norm. var. *salinarum* Grun.)

***Nitzschia* sp.**

Distribution (Fig. 953):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)

Reference: Geraldès & Boavida 2005 (as *Nitzschia* sp.)

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira et al. 1985 (as *Nitzschia* spp.)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Nitzschia* sp.); Oliveira 1985 (as *Nitzschia* spp.)

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Nitzschia* spp.)

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1985 (as *Nitzschia* spp.)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia* sp.)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia* sp.)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia* sp.)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia* sp.)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Nitzschia* sp.)
 Site: Homem River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Nitzschia* sp.)
 Subregion: Douro
 Municipality: Armamar (District: Viseu)
 Site: Queimadela, Vizela River (Ave Basin)
 Reference: Fidalgo 1990 (as *Nitzschia* spp.)
 Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Gondar Stream (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Nitzschia* sp.)
 Site: Sains, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Nitzschia* sp.)
 Site: Tourim, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Nitzschia* sp.)
 Site: Seixas, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia* sp.)
 Municipality: Melgaço (District: Viana do Castelo)
 Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia* sp.)
 Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia* sp.)
 Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia* sp.)
 Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: Alhada, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Nitzschia* sp.)
 Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
 Site: Barragem de Covas, Coura River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia* sp.)
 Municipality: Not Specified
 Site: Ínsua do Ranhão, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Nitzschia* sp.)

REGION: CENTRO

Subregion: Baixo Mondego
 Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Oliveira 1971a (as *Nitzschia* spp.)
 Subregion: Baixo Vouga
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Nitzschia* sp. A. H. Hassal)
 Municipality: Aveiro (District: Aveiro)

- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia* sp. A. H. Hassal)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia* sp. A. H. Hassal)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia* sp. A. H. Hassal)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia* sp. A. H. Hassal)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Caldeirão Reservoir, Caldeirão Stream
Reference: MAOT 2002 (as *Nitzschia* sp.)
- Subregion: Beira Interior Sul
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia* spp.)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Nitzschia* spp.)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia* spp.)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Nitzschia* spp.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia* spp.)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Nitzschia* spp.)
- Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia* sp.)
- Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Nitzschia* sp.); Cerqueira da Silva et al. 1993 (as *Nitzschia* sp.); Cerqueira da Silva 1994 (as *Nitzschia* sp.)
Site: Not Specified
References: Almeida & Gil 2001 (as *Nitzschia* sp.); Feio et al. 2007 (as *Nitzschia* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Nitzschia* sp.)
 Subregion: Grande Lisboa
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 References: Rodrigues & Moita 1979a (as *Nitzschia* spp.); Rodrigues & Moita 1979b (as *Nitzschia* spp.); Fernandes et al. 1987 (as *Nitzschia* spp.)

REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 Reference: Oliveira 1987 (as *Nitzschia* spp.)
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 Reference: Andrade & Brito 1995 (as *Nitzschia* sp.)
 Subregion: Alentejo Litoral
 Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1987 (as *Nitzschia* spp.)
 Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Nitzschia* sp.)
 Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia* spp.)
 Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Nitzschia* spp.)
 Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia* spp.)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia* spp.)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Nitzschia* spp.)
 Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Nitzschia* sp.)
 Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Nitzschia* spp.); Oliveira et al. 1989 (as *Nitzschia* spp.)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Nitzschia* spp.)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Nitzschia* spp.); Brito & Andrade 1992 (as *Nitzschia* spp.)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia* spp.)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1987 (as *Nitzschia* spp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Nitzschia* sp.)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Nitzschia* sp.)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Nitzschia* sp.)

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Nitzschia* sp.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia* species)

***Nupela Vyverman & Compère 1991*, p. 175**

[CAS ref. 006335]

***Nupela imperfecta* (Schimanski) Lange-Bertalot & Genkal 1999**, p. 80 [CAS ref. 009014]

Basionym: *Achnanthes imperfecta* Schimanski [CAS ref. 008766]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Nupela imperfecta* (Schimanski) Lange-Bertalot, fossil)

***Nupela impexiformis* (Lange-Bertalot in Lange-Bertalot & Krammer) Lange-Bertalot 1999a, p. 280 [CAS ref. 012674]**

Basionym: *Achnanthes impexiformis* Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 954):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nupela impexiformis* (Lange-Bertalot) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes impexiformis* Lange-Bertalot)

***Nupela lapidosa* (Krasske) Lange-Bertalot 1999a, p. 280 [CAS ref. 012674]**

Basionym: *Achnanthes lapidosa* Krasske 1929 [CAS ref. 000582]

Distribution (Fig. 955):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lapidosa* Krasske)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lapidosa* Krasske)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes lapidosa* Krasske)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes lapidosa* Krasske)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes lapidosa* Krasske)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lapidosa* Krasske)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lapidosa* Krasske)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Achnanthes lapidosa*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes lapidosa* Krasske var. *lapidosa* Krasske)

***Nupela silvahercynia* (Lange-Bertalot) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 97; pl. 22, fig. 55-56, pl. 118, fig. 1 [CAS ref. 007048]

Basionym: *Achnanthes silvahercynia* Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes silvahercynia* Lange-Bertalot)

***Opephora* P. Petit 1888, p. 130**
[CAS ref. 000751]

***Opephora mutabilis* (Grunow) Sabbe & Vyverman 1995, p. 241;**
fig. 13-28, 61-65 [CAS ref. 008745]

Basionym: *Sceptroneis mutabilis* Grunow in Cleve & Möller 1879 [CAS ref. 001978]

Distribution (Fig. 956):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Opephora mutabilis* (Grunow) Sabbe & Vyverman)

***Orthosira* W. Smith 1855, p. 8**
[CAS ref. 000864]

***Orthosira orichalcea* W. Smith 1856, p. 61; pl. 53, fig. 337 [CAS ref. 001007]**

Distribution (Fig. 957):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Melosira orichalcea* Sm.)

***Orthosira roeseana* (Rabenhorst) O'Meara 1876**, p. 255 [CAS ref. 000694]

Basionym: *Melosira roeseana* Rabenhorst 1853 [CAS ref. 000772]

Distribution (Fig. 958):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Melosira roeseana*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga, mouth of Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Orthoseira roseana* (Rabenhorst) O'Meara)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.)

Site: Diz River

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.); Santos & Carvalho 2001 (as *Melosira roeseana* Rabenh.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Melosira roeseana* Rabenh., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)
Site: Calheta
Reference: Mölder 1947 (as *Melosira roeseana* Rabenhorst)
Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Melosira roeseana* Rabenhorst)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Melosira roeseana* Rabenhorst)
Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Melosira roeseana* Rabenhorst)
Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Melosira roeseana* Rabenhorst)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Melosira roeseana* Rabenhorst); Bourrelly & Manguin 1946a (as *Melosira roeseana* Rabenhorst)
Municipality: Not Specified
Site: Pico Island
Reference: Johansson 1977 (as *Melosira roeseana* Rabenhorst)
Municipality: Not Specified
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: Not Specified
Reference: Gonçalves 2008 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Schodduyn 1927

***Paralia Heiberg 1863*, p. 33**
[CAS ref. 000471]

***Paralia sulcata* (Ehrenberg) Cleve 1873**, p. 7 [CAS ref. 000220]

Basionym: *Gallionella* (*Gallionella*) *sulcata* Ehrenberg 1838 [CAS ref. 000288]

Nomenclatural synonym: *Melosira sulcata* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 959):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Melosira sulcata*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Gallionella sulcata*)

***Paralia sulcata* var. *coronata* (Ehrenberg) G.W. Andrews 1976**, v. 910: p. 9; pl. 1, fig. 7, 8 [CAS ref. 003359]

Basionym: *Gaillonella* (*Gaillonella*) *coronata* Ehrenberg 1845b [CAS ref. 000956]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Gaillonella coronata*)

***Parlibellus* E.J. Cox 1988**, p. 19
[CAS ref. 003173]

***Parlibellus crucicula* (W. Smith) Witkowski, Lange-Bertalot & Metzeltin 2000**, p. 321 [CAS ref. 009017]

Basionym: *Stauroneis crucicula* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 960):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Stauroneis crucicola*)

***Parlibellus protracta* (Grunow) Witkowski, Lange-Bertalot & Metzeltin 2000**, p. 324 [CAS ref. 009017]

Basionym: *Navicula protracta* (Grunow in Cleve & Grunow) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 961):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Parlibellus protracta* (Grunow)
Witkowski, Lange-Bertalot & Metzeltin)
Site: Not Specified
Reference: Gonçalves 2008 (as *Parlibellus protracta* (Grunow)
Witkowski, Lange-Bertalot & Metzeltin)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Navicula protracta* (Grunow) Cleve)

***Parlibellus protractus* var. *subcapitatus* (Wislouch & V.S. Poretzky) Aboal in Aboal et al. 2003, p. 392 [CAS ref. 012666]**

Basionym: *Navicula lundstroemii* var. *subcapitata* Wislouch & V.S. Poretzky in Poretzky 1924 [CAS ref. 002122]

Nomenclatural synonym: *Navicula protracta* f. *subcapitata* (Wislouch & V.S. Poretzky in Poretzky) Hustedt 1962 [CAS ref. 002277]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula protracta* fo. *subcapitata*
(Wislouch & Poretzky) Hustedt)

***Peronia Brébisson & Arnott ex Kitton 1868,*
p. 16 [CAS ref. 002059]**

***Peronia fibula* (Brébisson in Kützing) Ross 1956, p. 78 [CAS ref. 002576]**

Basionym: *Gomphonema fibula* Brébisson ex Kützing 1849 [CAS ref. 000596]

Nomenclatural synonym: *Peronia erinacea* Brébisson & Arnott ex Kitton 1868 [CAS ref. 002059]

Distribution (Fig. 962):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Peronia erinacea* Bréb et Arn.)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Peronia fibula* (Breb. ex Kutz.) Ross);

Ferreira da Silva et al. 2009 (as *Peronia fibula* (Breb. ex Kutz.) Ross)

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Peronia fibula* (Brébisson) Ross)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1910 (as *Peronia erinacea* Bréb et Arn.)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Peronia fibula* (Brébisson et Arnott) Ross);
Gil et al. 1991 (as *Peronia fibula*)

REGION: Not Specified
Municipality: Not Specified
Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Peronia fibula* (Kutz.) Ross)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Peronia fibula* (Bréb. ex Kütz.) Ross)

***Pinnularia Ehrenberg 1843b*, p. 45**
[CAS ref. 001183]

***Pinnularia acorica* Krammer & Metzeltin in Krammer 2000**, p. 173, 237; pl. 183, fig. 1-2 [CAS ref. 009351]

Distribution (Fig. 963):

Formatada: Inglês
Unido)

Código de campo a

Formatada: Inglês
Unido)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Krammer 2000 (as *Pinnularia acorica* Krammer & Metzeltin)

***Pinnularia acoricola* Hustedt 1935**, v. 14: p. 159; pl. 3, fig. 24a, b
[CAS ref. 000509]

Distribution (Fig. 964):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*); Almeida 1998 (as *Pinnularia acoricola* Hustedt)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)

Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)

Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)

Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)

Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Pinnularia acoricola*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Pinnularia acoricola*)

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Pinnularia acoricola* Hustedt)
Municipality: Mértola (District: Beja)
Site: Acid mine drainage of the São Domingos mine
Reference: Gerhardt et al. 2008 (as *Pinnularia acoricola* Hustedt)
Site: Reservoir in the abandoned São Domingos mine
Reference: Gerhardt et al. 2008 (as *Pinnularia acoricola* Hustedt)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia acoricola* Hustedt var. *acoricola*)

***Pinnularia acrosphaeria* (Brébisson) W. Smith 1853**, p. 58; pl. 19, fig. 183 [CAS ref. 000863]

Basionym: *Frustulia acrosphaeria* Brébisson 1838 [CAS ref. 000161]

Nomenclatural synonym: *Navicula acrosphaeria* (Brébisson) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 965):

REGION: NORTE
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Pinnularia acrosphaeria* Bréb.)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)

- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfrazes
Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
- Site: Caldeirão
References: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.); Santos & Carvalho 2001 (as *Navicula acrosphaeria* Bréb.)
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
- Site: Diz River
Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.); Santos & Carvalho 2001 (as *Navicula acrosphaeria* Bréb.)
- Site: Vela
Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia acrosphaeria* W. Smith)
Site: Not Specified
Reference: Gonçalves 2008 (as *Pinnularia acrosphaeria* W. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Navicula acrosphaeria*)

***Pinnularia acrosphaeria* Rabenhorst 1853**, p. 45; pl. 6, fig. 36 [CAS ref. 000772]

Basionym: *Frustulia acrosphaeria* Brébisson 1838 [CAS ref. 000161]

Distribution (Fig. 966):

REGION: NORTE

Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia acrosphaeria*)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)

- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia acrosphaeria*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia acrosphaeria*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia acrosphaeria*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia acrosphaeria* Rabenhorst)

***Pinnularia acuminata* W. Smith 1853**, p. 55; pl. 18, fig. 164 [CAS ref. 000863]

Distribution (Fig. 967):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Pinnularia acuminata* W. Smith, fossil)

***Pinnularia allorgei* Manguin 1942**, p. 146; pl. 3, fig. 60 [CAS ref. 000623]

Distribution (Fig. 968):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Pinnularia allorgei* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia allorgei* Manguin)

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia allorgei* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia allorgei* Manguin)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia allorgei* Manguin)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia allorgei* Manguin)

***Pinnularia alpina* W. Smith 1853**, p. 55; pl. 18, fig. 168 [CAS ref. 000863]

Distribution (Fig. 969):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia alpina* W. Smith)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia alpina* W. Smith)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia alpina* W. Smith)

***Pinnularia angulosa* Krammer 2000**, p. 27 [CAS ref. 009351]

Nomenclatural synonym: *Pinnularia borealis* var. *brevicostata* Hustedt 1914 [CAS ref. 000493]

Distribution (Fig. 970):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.)

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia angulosa* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia angulosa* Krammer)

***Pinnularia angusta* (Cleve) Krammer 1992**, p. 122; pl. 44, fig. 16-20 [CAS ref. 006262]

Basionym: *Pinnularia mesolepta* var. *angusta* Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 971):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia angusta* (Cleve) Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia angusta* (Cleve) Krammer)

***Pinnularia appendiculata* (C. Agardh) Cleve 1895**, p. 75 [CAS ref. 000949]

Basionym: *Frustulia appendiculata* C. Agardh 1827 [CAS ref. 000103]

Nomenclatural synonym: *Navicula appendiculata* (C. Agardh) Kützing 1844 [CAS ref. 000595]

Synonym: *Pinnularia kuetzingii* Krammer 1992 [CAS ref. 006262], according to Krammer 2000, p. 120

Distribution (Fig. 972):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia appendiculata*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia appendiculata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia appendiculata*)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
 Site: Meios
 References: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.);
 Santos & Carvalho 2001 (as *Navicula appendiculata* (Ag.) Kuetz.)
 Site: Mondego River (Mondego Basin)
 Reference: Zimmermann 1914 (as *Navicula appendiculata* Kuetz.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Torre, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula appendiculata* Kuetz.)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Serra da Gardunha
 Reference: Zimmermann 1914 (as *Navicula appendiculata* Kuetz.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Santa Cruz

Reference: Zimmermann 1914 (as *Navicula appendiculata* Kuetz.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Pinnularia appendiculata* (Agardh) Cleve);

Calado 1990 (as *Pinnularia appendiculata* (Agardh) Cleve)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Joanhina

Reference: Gonçalves 1996 (as *Pinnularia appendiculata* (Agardh) Cleve)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);

Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Pinnularia appendiculata* (Ag.) Cl.)

Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Holmboe 1901 (as *Pinnularia appendiculata* (Ag.) Cl.)
 Site: Lagoa das Furnas
 Reference: Chaves 1908 (as *Navicula appendiculata* Ktz.)
 Site: Pico da Vara
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve);
 Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)

Municipality: Praia da Vitória (Terceira Island)
 Site: Lagoa do Boi
 Reference: Gonçalves 1996 (as *Pinnularia appendiculata* (Agardh) Cleve)

Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)
 Site: Ribeira Grande
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)

Municipality: Vila Franca do Campo (São Miguel Island)
 Site: Lagoa do Congro
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)

Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: Lagoa de Cazador (São Miguel Island)
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)
 Site: Pico Island
 References: Johansson 1977 (as *Pinnularia* cfr. *appendiculata* (Ag.) Cleve); Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia appendiculata* (Agardh) Cleve var. *appendiculata*)

***Pinnularia appendiculata* f. *constricta* Manguin 1942**, p. 142; pl. 3, fig. 51 [CAS ref. 000623]

Distribution (Fig. 973):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin)

***Pinnularia bicapitata* (Lagerstedt) Cleve 1891**, p. 28 [CAS ref. 000229]

Basionym: *Navicula bicapitata* Lagerstedt 1873 [CAS ref. 000597]

Synonyms: *Pinnularia mesolepta* (Ehrenberg) W. Smith 1853 [CAS ref. 000863]

Pinnularia interrupta W. Smith 1853 [CAS ref. 000863]

Pinnularia biceps W. Gregory 1856 [CAS ref. 000397], according to Krammer & Lange-Bertalot 1986, p. 424

Distribution (Fig. 974):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)

Site: Cubo
Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)
Site: Guarda
Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula bicapitata* Lag.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia interrupta* W.M. Smith)

***Pinnularia biceps* W. Gregory 1856**, p. 8; pl. 1, fig. 28 alpha [CAS ref. 000397]

Synonyms: *Pinnularia mesolepta* (Ehrenberg) W. Smith 1853 [CAS ref. 000863]
Pinnularia interrupta W. Smith 1853 [CAS ref. 000863]
Pinnularia bicapitata (Lagerstedt) Cleve 1891 [CAS ref. 000229], according to Krammer & Lange-Bertalot 1986, p. 424

Distribution (Fig. 975):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia biceps* Gregory)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Pinnularia biceps* Gregory); Gil et al. 1991 (as *Pinnularia biceps*)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia biceps* W. Gregory)

***Pinnularia borealis* Ehrenberg 1843a**, p. 420 (132); pl. 1/2, fig. 6, pl. 4/1, fig. 5 [CAS ref. 000294]

Nomenclatural synonym: *Navicula borealis* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 976):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia borealis* Ehr.)

Municipality: Matosinhos (District: Porto)

Site: Not Specified

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Municipality: Porto (District: Porto)

Site: Carreiros

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

References: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.);

Sampaio 1950 (as *Navicula borealis* (Ehrenb.) Kütz.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: Abrantes et al. 2006 (as *Pinnularia borealis*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*); Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia borealis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia borealis*)
Municipality: Ovar (District: Aveiro)
Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia borealis*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia borealis* Ehrenberg)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula borealis* (Ehr.) Kuetz.)
Site: Mondego River (Mondego Basin)
References: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.);
Carvalho 1913 (as *Navicula borealis* (Ehr.) Kuetz.); Santos & Carvalho
2001 (as *Navicula borealis* (Ehr.) Kuetz.)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)
Site: Sobral do Campo
Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)
Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Casal da Serra, Serra da Gardunha
Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Pinnularia borealis*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Barro

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1991 (as *Pinnularia borealis*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia borealis* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia borealis* Ehr.)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Pinnularia borealis* Ehrenberg var. *borealis* Krammer & Lange-Bertalot)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Pinnularia borealis* Ehrenberg var. *borealis* Krammer & Lange-Bertalot)

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Pinnularia borealis* Ehr.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula borealis* Ehr.)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)

Site: Pico da Vara

Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Pinnularia borealis*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Pinnularia borealis*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)

Site: Not Specified

References: Manguin 1942 (as *Pinnularia borealis* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr.); Gonçalves 2008 (as *Pinnularia borealis* var. *borealis* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Curral dos Romeiros, João Gomes Stream

Reference: Zimmermann 1909 (as *Navicula borealis* (Ehr.) Kuetz.)

Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Navicula borealis* (Ehr.) Kuetz.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Pinnularia borealis*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia borealis* Ehrenberg var. *borealis*)

***Pinnularia borealis* f. *elongata* Manguin 1942**, p. 145; pl. 3, fig. 57
[CAS ref. 000623]

Distribution (Fig. 977):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust. fo. *elongata*); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust. fo. *elongata*)

***Pinnularia borealis* f. *rectangularis* G.W.F. Carlson 1913**, p. 21; pl. 3, fig. 15 [CAS ref. 000188]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia borealis* Ehrenberg f. *rectangularis* Carlson)

***Pinnularia borealis* var. *subislandica* Krammer 2000**, p. 25, 209; pl. 8, fig. 1-5, (?)6 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia borealis* var. *subislandica* Krammer)

***Pinnularia brauniana* (Grunow) Studnička 1888**, p. 737 [CAS ref. 005601]

Basionym: *Navicula brauniana* Grunow in Schmidt 1876 [CAS ref. 012450]

Synonym: *Navicula braunii* Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 416 and to Krammer 2000, p. 112

Distribution (Fig. 978):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia brauniana* (Grunow) Mills)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia brauniana* (Grunow) Mills)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia brauniana* (Grunow) Mills)

***Pinnularia braunii* (Grunow in Van Heurck) Cleve 1895**, p. 75 [CAS ref. 000949]

Basionym: *Navicula braunii* Grunow in Van Heurck 1880 [CAS ref. 000895]

Synonym: *Navicula brauniana* Grunow in Schmidt 1876 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 416 and to Krammer 2000, p. 112

Distribution (Fig. 979):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Pinnularia braunii* (Grunow) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Guarda

Reference: Carvalho 1913 (as *Navicula braunii* Grun.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Navicula braunii* Grun.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula braunii* Grun.); Santos & Carvalho 2001 (as *Navicula braunii* Grun.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Navicula braunii* Grun.)

Site: Vela

Reference: Carvalho 1913 (as *Navicula braunii* Grun.)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia braunii* (Grunow) Cleve)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Pinnularia braunii* (Grunow) Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Pinnularia braunii* (Grunow) Cleve)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia braunii* (Grunow) Cleve)

***Pinnularia braunii* var. *amphicephala* (Ant. Mayer) Hustedt 1930,**
p. 319; fig. 578 [CAS ref. 000502]

Basionym: *Pinnularia amphicephala* Ant. Mayer 1917b [CAS ref. 001027]

Distribution (Fig. 980):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Pinnularia braunii* (Grun.) Cleve var.
amphicephala (Mayer) Hust.)

***Pinnularia brebissonii* (Kützing) Rabenhorst 1864,** p. 222 [CAS ref.
000775]

Basionym: *Navicula brebissonii* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Pinnularia microstauron* var. *brebissonii* (Kützing)
Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 981):

REGION: NORTE
Subregion: Ave
Municipality: Guimarães (District: Braga)
Site: Rio Celho
Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)

- Subregion: Entre Douro e Vouga
 Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)
- Subregion: Grande Porto
 Municipality: Porto (District: Porto)
 Site: Carreiros
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
 Site: Lordelo
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
 Site: Vilarinho
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
- Subregion: Minho-Lima
 Municipality: Paredes de Coura (District: Viana do Castelo)
 Site: Insalde
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
- Subregion: Tâmega
 Municipality: Lousada (District: Porto)
 Site: Not Specified
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Serra do Gerês
 Reference: Silva 1950a (as *Pinnularia microstauron* (Ehr.) Cleve var. *brebissonii* (Kütz.) Hust.)

REGION: CENTRO

- Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Municipality: Anadia (District: Aveiro)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Vagueira, Canal de Mira
 Reference: Resende et al. 2005 (as *Pinnularia brebissonii*)
 Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfazazes
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Navicula brebissonii* Kuetz.); Santos & Carvalho 2001 (as *Navicula brebissonii* Kuetz.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
 Site: Gonçalves
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
 Site: Guarda
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula brebissonii* Kuetz.); Zimmermann 1914 (as *Navicula brebissonii* Kuetz.); Santos & Carvalho 2001 (as *Navicula brebissonii* Kuetz.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)

- Site: Vela
Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula brebissonii* Kuetz.)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Pinnularia brebissonii*)
- Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Castelo Novo, Alpreade Stream (Tagus Basin)
Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
- Site: Serra da Gardunha
Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- REGION: AUTONOMOUS REGION OF AZORES**
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula Brebissonii* Ktz.)
- Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Navicula Brebissonii* Ktz., fossil)
- Site: Tambores, Furnas
Reference: Chaves 1908 (as *Navicula Brebissonii* Ktz., fossil)
- Municipality: Not Specified
Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst)
Site: Not Specified
Reference: Gonçalves 2008 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst)

***Pinnularia brebissonii* var. *angusta* (Grunow) Rabenhorst 1864, p.
222 42 [CAS ref. 000775]**

Basionym: *Navicula brebissonii* var. *angusta* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 982):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Navicula brebissonii* Kuetz. var.
angusta Grun.)

***Pinnularia brebissonii* var. *diminuta* (Grunow in Van Heurck)
Cleve 1895, p. 78 [CAS ref. 000949]**

Basionym: *Navicula brebissonii* var. *diminuta* Grunow in Van Heurck 1880 [CAS
ref. 000895]

Distribution (Fig. 983):

REGION: NORTE
Subregion: Ave
Municipality: Vila Nova de Famalicão (District: Braga)
Site: Ribeirão de Famalicão
Reference: Zimmermann 1910 (as *Navicula brebissonii* Kuetz. var.
diminuta V. H.)
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing)
Rabenhorst var. *diminuta* (Grunow) Cleve)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Guarda

Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *diminuta*)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *diminuta*)

***Pinnularia brebissonii* var. *subproducta* (Grunow in Van Heurck)
Cleve-Euler 1932, p. 78; fig. 177 [CAS ref. 000248]**

Basionym: *Navicula brebissonii* var. *subproducta* Grunow in Van Heurck 1880
[CAS ref. 000895]

Distribution (Fig. 984):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *subproducta*); Santos & Carvalho 2001 (as *Navicula brebissonii* Kuetz. var. *subproducta*)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *subproducta*)

***Pinnularia brevicostata* Cleve 1891, p. 25; pl. 1, fig. 5 [CAS ref. 000229]**

Distribution (Fig. 985):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia brevicostata* Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia brevicostata* Cleve)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia brevicostata* Cleve)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia brevicostata* Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia brevicostata* Cleve)

***Pinnularia brevicostata* var. *intermedia* Manguin 1942**, p. 145; pl. 4, fig. 65 [CAS ref. 000623]

Distribution (Fig. 986):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia brevicostata* Cleve var. *intermedia* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia brevicostata* Cleve var. *intermedia* Manguin)

***Pinnularia caraccana* Ehrenberg ex Rabenhorst 1853**, p. 42 [CAS ref. 000772]

Nomenclatural synonym: *Navicula borealis* var. *caraccana* (Ehrenberg ex Rabenhorst) De Toni 1891 [CAS ref. 000271]

Distribution (Fig. 987):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: São Roque do Faial

Reference: Zimmermann 1909a (as *Navicula borealis* (Ehrenb.) Kützing var. *caraccana* (Ehr.) Brun.)

***Pinnularia dactylus* Ehrenberg 1843a**, p. 420 (132); pl. 4/1, fig. 3 [CAS ref. 000294]

Nomenclatural synonyms: *Navicula dactylus* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Navicula nobilis var. *dactylus* (Ehrenberg) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 988):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Borrageira (Serra do Gerês)

Reference: González-Guerrero 1950a (as *Pinnularia dactylus* Ehr.)

REGION: CENTRO

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Santa Cruz

Reference: Zimmermann 1910 (as *Navicula nobilis* (Ehr.) Kuetz. var. *dactylus* (Ehr.) V. H.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia dactylus* Ehr., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula dactylus* Ehr., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula dactylus* Ehr., fossil)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia dactylus* Ehr., fossil)

***Pinnularia decrescens* (Grunow) Krammer 2000**, p. 64 [CAS ref. 009351]

Basionym: *Navicula legumen* var. *decrescens* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 989):

Formatada: Inglês Unido

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia decrescens* (Grunow) Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia decrescens* (Grunow) Krammer)

***Pinnularia dicephala* (Ehrenberg) Ehrenberg 1843a**, pl. 2/1; fig. 29, pl. 2/2, fig. 5 [CAS ref. 00094]

Nomenclatural synonym: *Navicula dicephala* Ehrenberg 1837 [CAS ref. 001178]

Formatada: Francês

Distribution (Fig. 990):

Código de campo a

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: Izeda

Reference: Zimmermann 1910 (as *Navicula dicephala* Ehr.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula dicephala* W. Smith); Gil et al. 1989-1990 (as *Navicula dicephala*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Navicula dicephala* W. Smith); Gil et al. 1989-1990 (as *Navicula dicephala*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula dicephala*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula dicephala* W. Smith)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula dicephala* W. Smith)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula dicephala*)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula dicephala* Ehr.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Navicula dicephala* Ehr.)

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Navicula dicephala*)

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula dicephala*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula dicephala*)
- Municipality: Tomar (District: Santarém)
- Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Navicula dicephala*)
- Municipality: Torres Novas (District: Santarém)
- Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Navicula dicephala* W. Sm.)
- Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Navicula dicephala* W. Sm.)
- Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Navicula dicephala* W. Sm.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
- Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula dicephala*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula dicephala*)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
- Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula dicephala*)
- Municipality: Pedrógão Grande (District: Leiria)
- Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula dicephala*)
- REGION: LISBOA
- Subregion: Grande Lisboa
- Municipality: Mafra (District: Lisboa)
- Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Navicula dicephala*)
- Municipality: Sintra (District: Lisboa)
- Site: Mula Reservoir, Mula Stream (Western Streams Basin)

Reference: Ferreira 1986 (as *Navicula dicephala*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Navicula dicephala*); Oliveira 1987 (as *Navicula dicephala* (Ehr.) W. Sm.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

Reference: Oliveira & Monteiro 1995 (as *Navicula dicephala*); Oliveira 1996 (as *Navicula dicephala*)

Subregion: Alentejo Litoral

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Navicula dicephala*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Navicula dicephala*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula dicephala*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula dicephala*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Navicula dicephala* W.Sm.); Fernandes et al. 1987 (as *Navicula dicephala*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Navicula dicephala*)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Navicula dicephala*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula dicephala*)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula dicephala*)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Navicula dicephala*)

Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Navicula dicephala*); Brito & Andrade 1992 (as *Navicula dicephala*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula dicephala*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Navicula dicephala* Ktz.)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula dicephala* Ktz.)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Navicula dicephala* Ktz., fossil)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Placoneis dicephala* (W.M. Smith) Mereschkowsky)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Placoneis dicephala* (W.M. Smith) Mereschkowsky)
Site: Not Specified
Reference: Gonçalves 2008 (as *Placoneis dicephala* (W. Smith) Mereschkowsky)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Curral dos Romeiros, João Gomes Stream
Reference: Zimmermann 1909 (as *Navicula dicephala* Ehr.)
Site: Tanque nos Estanquinhos
Reference: Zimmermann 1910-1911 (as *Navicula dicephala* Ehr.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Navicula dicephala* (Ehr.) Smith)

***Pinnularia divergens* W. Smith 1853**, p. 57; pl. 18, fig. 177 [CAS ref. 000863]

Basionym: *Navicula divergens* (W. Smith) Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 991):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Pinnularia divergens*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia divergens*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia divergens*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia divergens*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia divergens*)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia divergens*)

Subregion: Not Specified

Municipality: Not Specified

Site: Ave River (Ave Basin)

Reference: Cerqueira da Silva 1991 (as *Pinnularia divergens*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1909b (as *Navicula divergens* (W. Sm.) Ralfs)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*); Almeida 1998 (as *Pinnularia divergens* W. Smith)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia divergens*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

References: Nunes 2007 (as *Pinnularia divergens* W. M. Smith var. *divergens*); Ferreira da Silva et al. 2009 (as *Pinnularia divergens* W. M. Smith var. *divergens*)

Municipality: Anadia (District: Aveiro)

- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia divergens*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia divergens*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia divergens* W. M. Smith)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia divergens* W. M. Smith)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia divergens* W. Smith)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1914 (as *Navicula divergens* (W. Sm.) Ralfs)
- Site: Sobral do Campo
Reference: Zimmermann 1914 (as *Navicula divergens* (W. Sm.) Ralfs)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)

Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia divergens* W. Smith)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Pinnularia divergens*)
Site: Not Specified
References: Calado 1990 (as *Pinnularia divergens* W. Smith); Gil et al. 1991 (as *Pinnularia divergens*)

REGION: LISBOA

Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Pinnularia divergens* W. Smith, fossil)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pinnularia divergens* (?))
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Pinnularia divergens* W. Sm., fossil)
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Pinnularia divergens* W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)
Site: Caldeira

Reference: Mölder 1947 (as *Pinnularia divergens* W. Smith)
Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

Reference: Mölder 1947 (as *Pinnularia divergens* W. Smith)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia divergens* W.M. Smith)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia divergens* W.M. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Pinnularia divergens* W. Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia divergens* W. M. Smith var. *divergens*)

***Pinnularia divergens* var. *undulata* (Peragallo & Héribaud in Héribaud) Hustedt 1914**, p. 145 (81); pl. 2, fig. 33 [CAS ref. 000493]

Basionym: *Navicula divergens* var. *undulata* Peragallo & Héribaud in Héribaud 1893 [CAS ref. 000481]

Distribution (Fig. 992):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Pinnularia divergens* W. Sm. var. *undulata* Hérib. et Perag.); Bourrelly & Manguin 1946a (as *Pinnularia divergens* W. Sm. var. *undulata* Hérib. et Perag.)

***Pinnularia divergentissima* (Grunow in Van Heurck) Cleve 1895**, p. 77 [CAS ref. 000949]

Basionym: *Navicula divergentissima* Grunow in Cleve & Möller 1879 [CAS ref. 001977]

Distribution (Fig. 993):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia divergentissima* (Grunow) Cleve)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Pinnularia divergentissima* (Grunow) Cleve)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia divergentissima* (Grunow)
Cleve var. *divergentissima*)

***Pinnularia dubitabilis* Hustedt 1949**, p. 105; pl. 6, fig. 11-13 [CAS
ref. 000521]

Distribution (Fig. 994):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia dubitabilis* Hustedt)

***Pinnularia erratica* Krammer 2000**, p. 96 [CAS ref. 009351]

Distribution (Fig. 995):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia erratica* Krammer)

***Pinnularia esox* Ehrenberg 1843a**, p. 420 (132); pl. 1/2, fig. 4 [CAS
ref. 000294]

Distribution (Fig. 996):

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
References: Silva 1946a (as *Pinnularia esox* Ehr., fossil); Silva 1946b (as *Pinnularia esox* Ehr., fossil)

***Pinnularia gentilis* (Donkin) Cleve 1891**, p. 21 [CAS ref. 000229]

Basionym: *Navicula gentilis* Donkin 1872 [CAS ref. 001167]

Nomenclatural synonym: *Navicula nobilis* var. *gentilis* (Donkin) Van Heurck 1896 [CAS ref. 000897]

Distribution (Fig. 997):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula nobilis* (Ehr.) Kuetz. var. *gentilis* Donk.); Santos & Carvalho 2001 (as *Navicula nobilis* (Ehr.) Kuetz. var. *gentilis* Donk.)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia gentilis* (Donkin) Cleve, fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia gentilis* (Donk.) Cleve, fossil)

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia gentilis* (Donk.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Pinnularia gentilis* (Donkin) Cleve)

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia gentilis* (Donkin?) Cleve);
Bourrelly & Manguin 1946a (as *Pinnularia gentilis* (Donkin?) Cleve)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia gentilis* (Donkin) Cleve)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia gentilis* (Donkin) Cleve)

***Pinnularia gibba* Ehrenberg 1843a**, p. 384 (96); pl. 2/1, fig. 24, pl. 3/1, fig. 4 [CAS ref. 000294]

Nomenclatural synonym: *Navicula gibba* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Synonym: *Pinnularia stauroptera* (Grunow) Rabenhorst 1864 [CAS ref. 000775], according to Krammer & Lange-Bertalot 1986, p. 423

Distribution (Fig. 998):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Campelos, Ave River (Ave Basin)

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Pinnularia gibba* Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Pinnularia gibba* Ehrenberg); Almeida 2001 (as *Pinnularia gibba* Ehrenberg); Nunes 2007 (as *Pinnularia gibba* Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Pinnularia gibba* Ehr.)

Municipality: Porto (District: Porto)

Site: Lordelo

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Municipality: Vila Nova de Gaia (District: Porto)

Site: Quinta da Bandeira
Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)
Subregion: Minho-Lima
Municipality: Paredes de Coura (District: Viana do Castelo)
Site: Insalde
Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)
Subregion: Tâmega
Municipality: Lousada (District: Porto)
Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*); Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Pinnularia gibba* Ehr.)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)

Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Pinnularia gibba* Ehrenberg)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula gibba* (Ehr.) Kuetz.); Santos & Carvalho 2001 (as *Navicula gibba* (Ehr.) Kuetz.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Campo da Moita, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Pinnularia gibba*)
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Pinnularia gibba*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Pinnularia gibba*); Brito & Andrade 1992 (as *Navicula gibba* (?))
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Pinnularia gibba*)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
 Site: Pond near Lagoa Comprida
 Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
- Subregion: Not Specified
- Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Pinnularia gibba*)
 Site: Not Specified
 References: Calado 1990 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1991 (as *Pinnularia gibba*)

REGION: ALENTEJO

- Subregion: Alentejo Central
- Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 References: Oliveira 1984b (as *Pinnularia gibba*); Oliveira 1987 (as *Pinnularia gibba* W. Sm.)
- Subregion: Alto Alentejo
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Pinnularia gibba* W. Sm.)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
- Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Pinnularia gibba*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Pinnularia gibba* Ehrenberg)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Pinnularia gibba* Ehrenberg)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Pinnularia gibba* Ehr., fossil)
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Pinnularia gibba*)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pinnularia gibba*)

REGION: ALGARVE

Subregion: Algarve
Municipality: Lagos (District: Faro)
Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Pinnularia gibba*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Pinnularia gibba* Ehr.)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Pinnularia gibba* Ehrenberg)
Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Pinnularia gibba* Ehr.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Pinnularia gibba*)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas

References: O'Meara 1874 (as *Pinnularia gibba*); Dyer 1875 (as *Pinnularia gibba* Ehr.); Holmboe 1901 (as *Pinnularia gibba* (Ehr.?) W. Sm.); Chaves 1908 (as *Navicula gibba* Ehr.); Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.); Gonçalves 1997 (as *Pinnularia gibba*)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula gibba* Ehr., fossil)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Pinnularia gibba* Ehrenberg)

Site: Lagoa do Negro

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Pinnularia gibba* Ehr.); Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: Pico Island

References: Johansson 1977 (as *Pinnularia gibba* Ehr.); Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia gibba* Ehrenberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia gibba* Ehrenberg)

***Pinnularia gibba* var. *linearis* Hustedt 1930**, p. 327; fig. 604 [CAS ref. 000502]

Distribution (Fig. 999):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *linearis* Hust.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *linearis* Hust.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *linearis* Hust.)

Municipality: Not Specified

Site: Pico Island

Reference: Johansson 1977 (as *Pinnularia gibba* v. *linearis* Hust.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia gibba* Ehrenberg var. *linearis* Hustedt)

***Pinnularia gibba* var. *mesogongyla* (Ehrenberg) Hustedt 1930**, p. 327; fig. 602 [CAS ref. 000502]

Basionym: *Pinnularia mesogongyla* Ehrenberg 1854a [CAS ref. 000966]

Distribution (Fig. 1000):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia gibba* Ehr. var. *mesogongyla* (Ehr.) Hust.)

REGION: CENTRO

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.)
Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.)
Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.)
Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.)
Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Pinnularia gibba* v. *mesogongyla*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Pinnularia gibba* Ehr. var. *mesogongyla*
(Ehr.) Hust., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.)
Hust.)

***Pinnularia gibba* f. *minutissima* Manguin 1942**, p. 145; pl. 3, fig. 58
[CAS ref. 000623]

Distribution (Fig. 1001):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Ribeira Quente
References: Manguin 1942 (as *Pinnularia gibba* Ehr. var. *pava* (Ehr.)
Grun. fo. *minutissima* Manguin); Bourrelly & Manguin 1946a (as
Pinnularia gibba Ehr. var. *pava* (Ehr.) Grun. fo. *minutissima* Manguin)
Municipality: Not Specified
Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Pinnularia gibba* Ehr. var. pava (Ehr.) Grun. fo. minutissima Manguin); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr. var. pava (Ehr.) Grun. fo. minutissima Manguin)

***Pinnularia gibba* var. *parva* (Grunow) Frenguelli 1933**, p. 395; pl. 3, fig. 7, 8 [CAS ref. 000356]

Basionym: *Navicula stauroptera* var. *parva* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 1002):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Pinnularia gibba* v. *parva* (Ehr.) Grun.)

***Pinnularia gibba* var. *sancta* (Grunow ex Cleve) F. Meister 1932**, p. 43; fig. 140 [CAS ref. 000644]

Basionym: *Pinnularia stauroptera* var. *sancta* Grunow ex Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 1003):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)

Site: São João da Azenha, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Pinnularia gibba* v. *sancta*)

***Pinnularia gibba* var. *subundulata* (Ant. Mayer ex Hustedt)
 Frenguelli 1933, p. 396 [CAS ref. 000356]**

Basionym: *Pinnularia gibba* f. *subundulata* Mayer in Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 1004):

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Pinnularia gibba* Ehr. fo. *subundulata* (Ehr.) Hust.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. for. *subundulata* Mayer)

Municipality: Povoação (São Miguel Island)

Site: Furnas
Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. for. *subundulata* Mayer)

***Pinnularia globiceps* W. Gregory 1856**, p. 10; pl. 1, fig. 34 [CAS ref. 000397]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia globiceps* Gregory var. *globiceps*)

***Pinnularia gracilis* Heiden & Kolbe 1928**, p. 598; pl. 2, fig. 46 [CAS ref. 000473]

Distribution (Fig. 1005):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)

***Pinnularia hemiptera* (Kützing) Rabenhorst 1853**, p. 42; pl. 6, fig. 17 [CAS ref. 000772]

Basionym: *Navicula hemiptera* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1006):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia hemiptera* (Kütz.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Reference: Trelease 1897 (as *Navicula hemiptera* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Chaves 1908 (as *Navicula hemiptera* Ktz.); Manguin 1942 (as *Pinnularia hemiptera* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Pinnularia hemiptera* (Kütz.) Cleve)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia hemiptera* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Pinnularia hemiptera* (Kütz.) Cleve)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia hemiptera* (Kützing) Rabenhorst)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia hemiptera* (Kützing) Rabenhorst)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia hemiptera* (Kützing) Rabenhorst)

***Pinnularia hilseana* C. Janisch in Hilse 1860**, p. 82 [CAS ref. 002263]

Nomenclatural synonym: *Pinnularia subcapitata* var. *hilseana* (C. Janisch in Hilse) O. Müller 1898 [CAS ref. 001398]

Synonym: *Pinnularia subcapitata* W. Gregory 1856 [CAS ref. 000397], according to Krammer & Lange-Bertalot 1986, p. 426 and to Krammer 2000, p. 117

Distribution (Fig. 1007):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

- Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)
- Municipality: Anadia (District: Aveiro)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia subcapitata* v. *hilseana*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia subcapitata* v. *hilseana*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Pinnularia subcapitata* v. *hilseana*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Pinnularia subcapitata* v. *hilseana*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Angra do Heroísmo (Terceira Island)
Site: Santa Bárbara
Reference: Mölder 1947 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Janisch) Müller)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Janisch) Müller)
Site: Lagoa das Furnas
References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.)
Site: Pico da Vara
References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.)

***Pinnularia humilis* Krammer & Lange-Bertalot in Lange-Bertalot & Genkal 1999**, p. 84; pl. 52b, figs. 8-14 [CAS ref. 009014]

Distribution (Fig. 1008):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia humilis* Krammer & Lange-Bertalot)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia humilis* Krammer & Lange-Bertalot)

***Pinnularia inflata* (Kützing) Rabenhorst 1853**, p. 44; pl. 5, fig. 10 c [CAS ref. 000772]

Basionym: *Frustulia inflata* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonym: *Navicula inflata* (Kützing) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1009):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1909b (as *Navicula inflata* Kuetz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula inflata* Ktz.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula inflata* Kützing)

***Pinnularia instabilis* (A.W.F. Schmidt) Metzeltin in Metzeltin & Lange-Bertalot 1998**, p. 178-179; pl. 194, fig. 1-3, pl. 205, fig. 4-5 [CAS ref. 007051]

Basionym: *Navicula instabilis* A.W.F. Schmidt in Schmidt 1876 [CAS ref. 012450]

Distribution (Fig. 1010):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula instabilis* As., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula instabilis* A. S., fossil)

***Pinnularia interrupta* W. Smith 1853**, p. 59; pl. 19, fig. 184 [CAS ref. 000863]

Synonyms: *Pinnularia mesolepta* (Ehrenberg) W. Smith 1853 [CAS ref. 000863]

Pinnularia biceps W. Gregory 1856 [CAS ref. 000397]

Pinnularia bicapitata (Lagerstedt) Cleve 1891 [CAS ref. 000229], according to Krammer & Lange-Bertalot 1986, p. 424

Distribution (Fig. 1011):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Pinnularia interrupta* W. Smith)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Pinnularia interrupta* W. Smith)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

- Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Pinnularia interrupta*)
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia interrupta* W. Smith)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Pinnularia interrupta*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Pinnularia interrupta* W. Smith)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Pinnularia interrupta* W. Smith)
- REGION: LISBOA
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Pinnularia interrupta* W. Smith, fossil)
- REGION: ALENTEJO
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Pinnularia interrupta*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Pinnularia interrupta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Pinnularia interrupta* Smith)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Pinnularia interrupta* W. Smith)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia interrupta* W.M. Smith)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia interrupta* W.M. Smith)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia interrupta* W.M. Smith)

***Pinnularia interrupta* f. *minutissima* (Hustedt) Hustedt 1930**, p. 317; fig. 574 [CAS ref. 000502]

Basionym: *Pinnularia interrupta* var. *minutissima* Hustedt 1924 [CAS ref. 000497]

Distribution (Fig. 1012):

REGION: NORTE
Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Prelada
Reference: Silva 1950b (as *Pinnularia interrupta* W. Smith fo. *minutissima* Hust.)

***Pinnularia interruptiformis* Krammer 2000**, p. 109 [CAS ref. 009351]

Nomenclatural synonyms: *Pinnularia interrupta* f. *minor* J.B. Petersen 1928a [CAS ref. 000742]
Pinnularia biceps f. *petersenii* Ross 1947 [CAS ref. 000796]

Distribution (Fig. 1013):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Pinnularia biceps* v. *petersenii*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Municipality: Povoação (São Miguel Island)
 Site: Lagoa das Furnas
 References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Site: Ribeira Quente
 References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia interruptiformis* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia interruptiformis* Krammer)

***Pinnularia joculata* (Manguin) Krammer 2000**, p. 116 [CAS ref. 009351]

Basionym: *Pinnularia interrupta* var. *joculata* Manguin in Bourrelly & Manguin 1952 [CAS ref. 000149]

Distribution (Fig. 1014):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Krammer 2000 (as *Pinnularia joculata* (Manguin) Krammer)

***Pinnularia johnsonii* W. Smith 1853**, p. 58; pl. 19, fig. 179 [CAS ref. 000863]

Nomenclatural synonym: *Navicula johnsonii* (W. Smith) O'Meara 1875 [CAS ref. 000694]

Distribution (Fig. 1015):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Navicula johnsonii* (W. Smith) O'Meara, fossil)

***Pinnularia karelica* Cleve 1891**, p. 28; pl. 1, fig. 6 [CAS ref. 000229]

Distribution (Fig. 1016):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelika* Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelika* Cleve)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzias, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelika* Cleve)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelika* Cleve)

***Pinnularia kuetzingii* Krammer 1992**, p. 104-105, 173; pl. 36, fig. 26-35 [CAS ref. 006262]

Synonym: *Pinnularia appendiculata* (C. Agardh) Cleve 1895 [CAS ref. 000949], according to Krammer 2000, p. 120

Distribution (Fig. 1017):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia kuetzingii* Krammer)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia kuetzingii* Krammer)

***Pinnularia lata* (Brébisson) W. Smith 1853**, p. 55; pl. 18, fig. 167 [CAS ref. 000863]

Basionym: *Frustulia lata* Brébisson 1838 [CAS ref. 000161]

Nomenclatural synonym: *Navicula lata* (Brébisson) Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 1018):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula lata* Bréb.)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula lata* Bréb.); Santos & Carvalho 2001 (as *Navicula lata* Bréb.)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula lata* Bréb.)
Site: Cubo
Reference: Carvalho 1913 (as *Navicula lata* Bréb.)
Site: Diz River
Reference: Carvalho 1913 (as *Navicula lata* Bréb.)
Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula lata* Bréb.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula lata* Bréb.); Santos & Carvalho 2001 (as *Navicula lata* Bréb.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia lata* (Bréb.) W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula lata*, fossil)

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Pinnularia lata* (Brébisson) Rabenhorst, fossil)

***Pinnularia legumen* Ehrenberg 1843a**, pl. 4/1, fig. 7 [CAS ref. 000294]

Nomenclatural synonym: *Navicula legumen* (Ehrenberg) Ehrenberg 1854a [CAS ref. 000966]

Distribution (Fig. 1019):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia legumen* Ehr.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia legumen* Ehrenberg); Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia legumen* Ehrenberg)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia legumen* Ehrenberg)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula legumen* Ehr.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Navicula legumen* Ehr.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula legumen*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia legumen* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia legumen* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia legumen* Ehr.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Comprida
References: Manguin 1942 (as *Pinnularia legumen* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia legumen* Ehr.)
Site: Ribeira Grande
References: Manguin 1942 (as *Pinnularia legumen* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia legumen* Ehr.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pinnularia legumen* Ehrenberg)

***Pinnularia lundii* Hustedt 1954b**, p. 474; fig. 61-63 [CAS ref. 000529]

Distribution (Fig. 1020):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Pinnularia lundii* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia lundii*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia lundii*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia lundii*)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Pinnularia lundii*); Almeida 1998 (as *Pinnularia lundii* Hustedt)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia lundii*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia lundii* Hustedt)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Reference: Krammer 1992 (as *Pinnularia lundii* Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia lundii* Hustedt var. *lundii*)

***Pinnularia lundii* var. *linearis* Krammer 2000**, p. 98, 222; pl. 72, fig. 1, pl. 75, fig. 1-6 [CAS ref. 009351]

Distribution (Fig. 1021):

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Not Specified

Reference: Krammer 2000 (as *Pinnularia lundii* var. *linearis* Krammer)

***Pinnularia major* (Kützing) Rabenhorst 1853**, p. 42; pl. 6, fig. 5 [CAS ref. 000772]

Basionym: *Frustulia major* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonyms: *Navicula major* (Kützing) Ehrenberg 1838 [CAS ref. 000288]

Navicula major (Kützing) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1022):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Celho

Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)

- Site: Homem River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)
- Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Lordelo
Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
Municipality: Matosinhos (District: Porto)
Site: Not Specified
Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
Municipality: Vila Nova de Gaia (District: Porto)
Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Pinnularia major*)
- Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia major*)
Municipality: Paredes de Coura (District: Viana do Castelo)
Site: Insalde
Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)

REGION: CENTRO

- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
 Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia major*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
 Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia major*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia major*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Pinnularia maior* (Kützing) Cleve)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Caldeirão

Reference: Carvalho 1913 (as *Navicula major* Kuetz.); Santos & Carvalho 2001 (as *Navicula major* Kuetz.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Navicula major* Kuetz.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula major* Kuetz.)
 Site: Guarda
 Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Campo das Naves
 Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula major* Kuetz.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Pinnularia major*); Brito & Andrade 1992 (as *Navicula major* (?))
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia major*)
 Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Pinnularia major*)
 Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1991 (as *Pinnularia major*); Cerqueira da Silva et al. 1993 (as *Pinnularia major*); Cerqueira da Silva 1994 (as *Pinnularia major*)

Site: Not Specified

References: Calado 1990 (as *Pinnularia major* (Kützing) Rabenhorst); Gil et al. 1991 (as *Pinnularia major*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia major* (Kütz.) Cleve, fossil)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Carvalhal diatomite

Reference: Silva 1949 (as *Pinnularia major* (Kütz.) Cleve, fossil)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia major* (Kütz.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Joanhina

Reference: Gonçalves 1996 (as *Pinnularia maior* (Kützing) Rabenhorst)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Pinnularia maior* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Pinnularia major*)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia major* (Kützing) Rabenhorst)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia major* (Kützing) Rabenhorst)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia maior* (Kützing) Rabenhorst)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal
Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Navicula major* Kuetz.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Pinnularia maior* Kütz.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia maior* (Kützing) Rabenhorst)

***Pinnularia major* var. *subacuta* (Ehrenberg) Cleve 1895**, p. 89
[CAS ref. 000949]

Basionym: *Pinnularia subacuta* Ehrenberg 1854a [CAS ref. 000966]

Nomenclatural synonym: *Navicula subacuta* (Ehrenberg) Ralfs in Pritchard 1861
[CAS ref. 001063]

Distribution (Fig. 1023):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Navicula subacuta* Ehr., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Navicula subacuta* Ehr., fossil)

***Pinnularia mayeri* Krammer 1992**, p. 115; pl. 42, fig. 2-4 [CAS ref. 006262]

Distribution (Fig. 1024):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia mayeri* Krammer)

***Pinnularia mesolepta* (Ehrenberg) W. Smith 1853**, p. 58; pl. 19, fig. 182 [CAS ref. 000863]

Basionym: *Navicula mesolepta* Ehrenberg 1843a [CAS ref. 000294]

Synonyms: *Pinnularia interrupta* W. Smith 1853 [CAS ref. 000863], according to Krammer & Lange-Bertalot 1986, p. 424

Pinnularia biceps W. Gregory 1856 [CAS ref. 000397], according to Krammer & Lange-Bertalot 1986, p. 424

Pinnularia bicapitata (Lagerstedt) Cleve 1891 [CAS ref. 000229], according to Krammer & Lange-Bertalot 1986, p. 424

Distribution (Fig. 1025):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula mesolepta* Ehr.); Santos & Carvalho 2001 (as *Navicula mesolepta* Ehr.)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula mesolepta* Ehr.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula mesolepta* Ehr.)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Pinnularia mesolepta* (Ehrenberg) W. Smith)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia mesolepta* (Ehr.) W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia mesolepta* (Ehr.) W. Smith)
Municipality: Calheta (São Jorge Island)
Site: Ribeira de São João
Reference: Mölder 1947 (as *Pinnularia mesolepta* (Ehr.) W. Smith)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Pinnularia mesolepta*)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Pinnularia mesolepta* (Ehr.) W. Smith)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula mesolepta* Ehr.)
Municipality: Not Specified
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Pinnularia mesolepta* (Ehrenberg)
W.M. Smith)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia mesolepta* (Ehrenberg)
W.M. Smith)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia mesolepta* (Ehrenberg)
W.M. Smith)

***Pinnularia mesolepta* var. *producta* (Grunow) Gutwinski 1891**, p. 80 [CAS ref. 002254]

Basionym: *Navicula mesolepta* var. *producta* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 1026):

REGION: NORTE

Subregion: Tâmega

Municipality: Felgueiras (District: Porto)

Site: Sousa River (Douro Basin)

Reference: Zimmermann 1910 (as *Navicula mesolepta* Ehr. var. *producta* Grun.)

***Pinnularia mesolepta* var. *termes* (Van Heurck) Mills 1934b**, p. 1294 [CAS ref. 006149]

Basionym: *Navicula mesolepta* var. *termes* (*thermes*) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1027):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehrenberg var. *thermes* (Ehr.))

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula mesolepta* Ehrenberg var. *thermes* (Ehr.)); Santos & Carvalho 2001 (as *Navicula mesolepta* Ehr. var. *thermes* (Ehr.))

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Navicula mesolepta* Ehr. var. *thermes* (Ehr.))

***Pinnularia metzeltinii* Krammer 2000**, p. 82, 219; pl. 59, fig. 8-16
[CAS ref. 009351]

Distribution (Fig. 1028):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Krammer 2000 (as *Pinnularia metzeltinii* Krammer)

***Pinnularia microstauron* (Ehrenberg) Cleve 1891**, p. 28 [CAS ref. 000229]

Basionym: *Stauroptera microstauron* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 1029):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Pinnularia microstauron* (Ehrenberg) Cleve); Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve); Ferreira da Silva et al. 2009 (as *Pinnularia microstauron* (Ehr.) Cleve var. *microstauron*)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Pinnularia microstauron* (Ehr.) Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Pinnularia microstauron* (Ehr.) Cleve)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Pinnularia microstauron* (Ehr.) Cleve)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve);
Ferreira da Silva et al. 2009 (as *Pinnularia microstauron* (Ehr.) Cleve var.
microstauron)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg)
Cleve)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga
Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River
(Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Municipality: Aveiro (District: Aveiro)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg)
Cleve)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)
References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et
al. 1989-1990 (as *Pinnularia microstauron*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

- References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia microstauron* (Ehr.) Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Pinnularia microstauron* (Ehrenberg) P. Cleve); Gil et al. 1991 (as *Pinnularia microstauron*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Pinnularia microstauron* (Ehr.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Achada
Reference: Mölder 1947 (as *Pinnularia microstauron* (Ehr.) Cleve)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
Municipality: Corvo (Corvo Island)
Site: Not Specified
Reference: Mölder 1947 (as *Pinnularia microstauron* (Ehr.) Cleve)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Pinnularia microstauron* Ehrb.)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Pinnularia microstauron* (Ehr.) Cleve)
Site: Pico da Vara
References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve);
Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve)
Site: Ribeira Grande
References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve);
Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Pinnularia microstauron*)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron*
(Ehrenberg) Cleve)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron*
(Ehrenberg) Cleve)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron*
(Ehrenberg) Cleve)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron*
(Ehrenberg) Cleve)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron*
(Ehrenberg) Cleve)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron*
(Ehrenberg) Cleve)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron*
(Ehrenberg) Cleve)
Site: Not Specified
Reference: Gonçalves 2008 (as *Pinnularia microstauron* (Ehrenberg)
Cleve)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia microstauron* (Ehr.) Cleve var.
microstauron)

***Pinnularia microstauron* var. *ambigua* F. Meister 1912**, p. 162; pl.
28, fig. 2 [CAS ref. 000642]

Distribution (Fig. 1030):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia microstauron* var. *ambigua* Meister, fossil)

***Pinnularia microstauron* f. *minutissima* Manguin 1942**, p. 144; pl. 3, fig. 55 [CAS ref. 000623]

Distribution (Fig. 1031):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Bourrelly et Manguin); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Bourrelly et Manguin)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Bourrelly et Manguin); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Bourrelly et Manguin)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Bourrelly et Manguin); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Bourrelly et Manguin)

***Pinnularia microstauron* var. *rostrata* Krammer 2000**, p. 74, 217; pl. 51, fig. 8-18 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia microstauron* var. *rostrata* Krammer)

***Pinnularia nobilis* (Ehrenberg) Ehrenberg 1843a**, p. 384 (96); pl. 2/1, fig. 25, pl. 2/2, fig. 3 [CAS ref. 000294]

Basionym: *Navicula nobilis* Ehrenberg 1840a [CAS ref. 000293]

Distribution (Fig. 1032):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia nobilis* Ehr.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1909b (as *Navicula nobilis* (Ehr.) Kuetz.)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia nobilis* Ehr., fossil)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Carvalhal diatomite

Reference: Silva 1949 (as *Pinnularia nobilis* Ehr., fossil)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia nobilis* Ehr., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula nobilis* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

- References: Manguin 1942 (as *Pinnularia nobilis* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia nobilis* Ehr.)
- Municipality: Lajes do Pico (Pico Island)
 Site: Lagoa do Caiado
 Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)
- Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)
- Site: Lagoa Grande
 References: Holmboe 1901 (as *Pinnularia nobilis* Ehr.); Mölder 1947 (as *Pinnularia nobilis* Ehr.)
- Site: Lagoa das Sete Cidades
 Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)
- Municipality: Povoação (São Miguel Island)
 Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
 Reference: Holmboe 1901 (as *Pinnularia nobilis* Ehr.)
- Site: Lagoa das Furnas
 Reference: Holmboe 1901 (as *Pinnularia nobilis* Ehr.)
- Site: Pico da Vara
 Reference: Holmboe 1901 (as *Pinnularia nobilis* Ehr.)
- Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Navicula nobilis*, fossil)
- Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)
- Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)
- Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)
- Site: Terceira Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)

***Pinnularia nodosa* (Ehrenberg) W. Smith 1856**, p. 96 [CAS ref. 001007]

Basionym: *Navicula nodosa* Ehrenberg 1838 [CAS ref. 000288]

Distribution (Fig. 1033):

REGION: CENTRO
 Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia nodosa* (Ehr.) W. Smith)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula nodosa* K. var.?)

***Pinnularia obscura* Krasske 1932**, p. 117; pl. 3, fig. 22 [CAS ref. 000583]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia obscura* Krasske)

***Pinnularia parva f. interrupta* J.B. Petersen 1928a**, p. 407; fig. 28 [CAS ref. 000742] as *Pinnularia parva* var. *lagerstedtii* f. *interrupta*

Distribution (Fig. 1034):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Lajes das Flores (Flores Island)
Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen)

***Pinnularia perirrorata* Krammer 2000**, p. 41, 211; pl. 17, fig. 11-22 [CAS ref. 009351]

Distribution (Fig. 1035):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia perirrorata* Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia perirrorata* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia perirrorata* Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia perirrorata* Krammer)

***Pinnularia polyonca* (Brébisson in Kützing) W. Smith 1856, p. 95**
[CAS ref. 001007]

Basionym: *Navicula polyonca* Brébisson in Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 1036):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel

Reference: Zimmermann 1910 (as *Navicula polyonca* Bréb.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Pinnularia polyonca*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Pinnularia polyonca* (Brébisson) W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Pinnularia polionca*)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia polyonca* (Bréb.) O. Müll.);

Bourrelly & Manguin 1946a (as *Pinnularia polyonca* (Bréb.) O. Müll.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia polyonca* (Brébisson) W.M. Smith)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia polyonca* (Brébisson)
W.M. Smith)

***Pinnularia pseudogibba* Krammer 1992**, p. 129, 174; pl. 48, fig. 8-14 [CAS ref. 006262]

Distribution (Fig. 1037):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia pseudogibba* Krammer)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia pseudogibba* Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia pseudogibba* Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia pseudogibba* var. *pseudogibba* Krammer)

***Pinnularia quadrifasciata* (Ehrenberg) Ehrenberg 1854a**, pl. 19, fig. 25 [CAS ref. 000966]

Basionym: *Navicula quadrifasciata* Ehrenberg 1840b [CAS ref. 000290]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Pinnularia quadrifasciata*)

***Pinnularia rabenhorstii* (Grunow) Krammer 2000**, p. 22 [CAS ref. 009351]

Basionym: *Navicula rabenhorstii* Grunow 1860 [CAS ref. 000427]

Nomenclatural synonym: *Pinnularia lata* var. *thuringiaca* (Rabenhorst; Rabenhorst) Ant. Mayer 1917a [CAS ref. 000636]

Distribution:

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Pinnularia lata* (Bréb.) W. Smith fo. *thuringiaca* (Rabh.) A. Mayer)

***Pinnularia rhombarea* Krammer in Metzeltin & Lange-Bertalot 1998**, p. 185-186; pl. 175, fig. 1-5 [CAS ref. 007051]

Distribution (Fig. 1038):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rhombarea* Krammer)

***Pinnularia rhombarea* var. *biundulata* (O. Müller) Krammer 2000**, p. 76 [CAS ref. 009351]

Basionym: *Pinnularia microstauron* var. *biundulata* O. Müller 1898 [CAS ref. 001398]

Nomenclatural synonym: *Pinnularia microstauron* f. *biundulata* (O. Müller) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 1039):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *biundulata* O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *biundulata* O. Müll.)

***Pinnularia rhomboelliptica* Krammer 2000**, p. 160-161, 233; pl. 149, fig. 4-9, pl. 159, fig. 1-5, pl. 194, fig. 2 [CAS ref. 009351]

Distribution (Fig. 1040):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rhomboelliptica* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rhomboelliptica* Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia rhomboelliptica* var. *rhomboelliptica* Krammer)

***Pinnularia rhomboelliptica* var. *inflata* Krammer 2000**, p. 161, 233; pl. 152, fig. 3-5, pl. 153, fig. 1-4 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia rhomboelliptica* var. *inflata* Krammer)

***Pinnularia rivularis* Hustedt 1935**, v. 14: p. 160; pl. 5, fig. 35 [CAS ref. 000509]

Distribution (Fig. 1041):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Pinnularia rivularis* Hust.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rivularis* Hustedt)

***Pinnularia rupestris* Hantzsch in Rabenhorst 1861c**, no. 1203 [CAS ref. 011628]

Nomenclatural synonym: *Navicula rupestris* (Hantzsch in Rabenhorst) A.W.F. Schmidt in Schmidt 1876 [CAS ref. 012450]

Distribution (Fig. 1042):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Pinnularia rupestris* Hantzsch)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia rupestris* Hantzsch in Rabenhorst 1861)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula rupestris* Hantzsch., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula rupestris* Hantzsch., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rupestris* Hantzsch)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rupestris* Hantzsch)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia rupestris* Hantzsch)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia rupestris* Hantzsch in Rabenhorst 1861)

***Pinnularia schroederi* (Hustedt) Cholnoky 1959**, p. 16 [CAS ref. 000206]

Basionym: *Caloneis schroederi* Hustedt 1922b [CAS ref. 001277]

Distribution (Fig. 1043):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Caloneis schröderi* Hust., fossil)

***Pinnularia septentrionalis* Krammer 2000**, p. 103 [CAS ref. 009351]

Basionym: *Navicula mesolepta* var. *stauroneiformis* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 1044):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)

Site: Guarda

Reference: Zimmermann 1910 (as *Navicula mesolepta* var. *stauroneiformis* Grun.)

Site: Vela

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)

***Pinnularia similis* Hustedt 1937a**, v. 15: p. 291; pl. 23, fig. 12-13 [CAS ref. 001012]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia similis* Hustedt)

***Pinnularia sinistra* Krammer 1992**, p. 105-106, 175-176; pl. 37, fig. 1-16 [CAS ref. 006262]

Distribution (Fig. 1045):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia* cf. *sinistra* Krammer)

***Pinnularia stauroptera* (Grunow) Rabenhorst 1864**, p. 222 [CAS ref. 000775]

Basionym: *Navicula stauroptera* Grunow 1860 [CAS ref. 000427]

Synonym: *Pinnularia gibba* Ehrenberg 1843a [CAS ref. 000294], according to Krammer & Lange-Bertalot 1986, p. 423

Distribution (Fig. 1046):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula stauroptera* Grun.); Santos & Carvalho 2001 (as *Navicula stauroptera* Grun.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula stauroptera* Grun.); Santos & Carvalho 2001 (as *Navicula stauroptera* Grun.)
Site: Porto da Carne
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Pinnularia stauroptera*)
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Navicula stauroptera* Grun.)
Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Pinnularia stauroptera*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Pinnularia stauroptera*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Pinnularia stauroptera* Grun.)

***Pinnularia stauroptera* var. *interrupta* Cleve 1895**, p. 83 [CAS ref. 000949]

Distribution (Fig. 1047):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Pinnularia stauroptera* Grun. var. *interrupta* Cl.)

***Pinnularia stomatophora* (Grunow in Schmidt 1876) Cleve 1895**, p. 83 [CAS ref. 000949]

Basionym: *Navicula stomatophora* Grunow in Schmidt 1876 [CAS ref. 012450]

Distribution (Fig. 1048):

REGION: NORTE

Subregion: Ave
Municipality: Vila Nova de Famalicão (District: Braga)
Site: Ribeirão de Famalicão
Reference: Zimmermann 1910 (as *Navicula stomatophora* Grun.)

Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Pinnularia stomatophora* Grunow)

Subregion: Tâmega
Municipality: Lousada (District: Porto)
Site: Not Specified
Reference: Zimmermann 1910 (as *Navicula stomatophora* Grun.)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia stomatophora* Grunow); Gil et al. 1989-1990 (as *Pinnularia stomatophora*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia stomatophora* Grunow); Gil et al. 1989-1990 (as *Pinnularia stomatophora*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Pinnularia stommatophora*)

- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel
 Reference: Zimmermann 1910 (as *Navicula stomatophora* Grun.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 References: Calado 1990 (as *Pinnularia stomatophora* Grunow); Gil et al. 1991 (as *Pinnularia stomatophora*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Calheta (São Jorge Island)
 Site: Pico do Calheta
 Reference: Mölder 1947 (as *Pinnularia stomatophora* Grun.)
- Municipality: Nordeste (São Miguel Island)
 Site: Serra Tronqueira
 References: Manguin 1942 (as *Pinnularia stomatophora* Grun.); Bourrelly & Manguin 1946a (as *Pinnularia stomatophora* Grun.)
- Municipality: Povoação (São Miguel Island)
 Site: Pico da Vara
 References: Manguin 1942 (as *Pinnularia stomatophora* Grun.); Bourrelly & Manguin 1946a (as *Pinnularia stomatophora* Grun.); Mölder 1947 (as *Pinnularia stomatophora* Grun.)
- Municipality: Not Specified
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia stomatophora* (Grunow) Cleve)
- Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia stomatophora* (Grunow) Cleve)
- Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Pinnularia stomatophora* Grun.);
Bourrelly & Manguin 1946a (as *Pinnularia stomatophora* Grun.)

***Pinnularia streptoraphe* Cleve 1891**, p. 23 [CAS ref. 000229]

Distribution (Fig. 1049):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia streptoraphe* Cleve)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia streptoraphe* Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia streptoraphe* Cleve var. *streptoraphe*)

***Pinnularia streptoraphe* f. *minor* Manguin 1942**, p. 146; pl. 3, fig. 61
[CAS ref. 000623]

Distribution (Fig. 1050):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia streptoraphe* Cleve fo. *minor* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia streptoraphe* Cleve fo. *minor* Manguin)

***Pinnularia subbrevistriata* Krammer 2000**, p. 94 [CAS ref. 009351]

Distribution (Fig. 1051):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subbrevisstriata* Krammer)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subbrevisstriata* Krammer)

***Pinnularia subcapitata* W. Gregory 1856**, p. 9; pl. 1, fig. 30 [CAS ref. 000397]

Basionym: *Navicula subcapitata* (W. Gregory) Ralfs in Pritchard 1861 [CAS ref. 001063]

Synonym: *Pinnularia hilseana* C. Janisch in Hilse 1860 [CAS ref. 002263], according to Krammer & Lange-Bertalot 1986, p. 426 and to Krammer 2000, p. 117

Distribution (Fig. 1052):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Pinnularia subcapitata*)

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula subcapitata* (Greg.) Ralfs.)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

- Site: Serra da Freita, Arões, Caima River (Vouga Basin)
References: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *subcapitata*); Ferreira da Silva et al. 2009 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Pinnularia subcapitata* Gregory)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
References: Almeida 1998 (as *Pinnularia subcapitata* Gregory); Almeida 2001 (as *Pinnularia subcapitata* Gregory); Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)
Site: São Pedro de Castelões, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
Subregion: Grande Porto
Municipality: Vila Nova de Gaia (District: Porto)
Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Pinnularia sub-capitata*)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia sub-capitata*)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia sub-capitata*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia sub-capitata*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Oliveira 1982a (as *Pinnularia subcapitata*)
- REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
Site: Águeda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*); Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory)

- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Pinnularia subcapitata* Gregory)
- Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Pinnularia subcapitata* Gregory)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfazazes
 Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)
 Site: Caldeirão
 References: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs);
 Santos & Carvalho 2001 (as *Navicula subcapitata* (Greg.) Ralfs)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)
 Site: Cubo
 Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)
 Site: Meios
 References: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs);
 Santos & Carvalho 2001 (as *Navicula subcapitata* (Greg.) Ralfs)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs);
 Santos & Carvalho 2001 (as *Navicula subcapitata* (Greg.) Ralfs)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)

- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia subcapitata* Gregory)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Pinnularia subcapitata*)
- Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Pinnularia subcapitata*)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)
- Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)
- Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)
- Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)
- Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Pinnularia subcapitata*)
Site: Not Specified
References: Calado 1990 (as *Pinnularia subcapitata* Gregory); Gil et al. 1991 (as *Pinnularia subcapitata*); Almeida & Gil 2001 (as *Pinnularia subcapitata* Gregory)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula subcapitata*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Pinnularia subcapitata*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia subcapitata* Gregory)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia subcapitata* Gregory)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Navicula subcapitata* Greg.)

Municipality: Mértola (District: Beja)

Site: Acid mine drainage of the São Domingos mine

Reference: Gerhardt et al. 2008 (as *Pinnularia subcapitata* Gregory)

Site: Reservoir in the abandoned São Domingos mine

Reference: Gerhardt et al. 2008 (as *Pinnularia subcapitata* Gregory)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia subcapitata* Greg.)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Pinnularia subcapitata* Gregory)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Pinnularia subcapitata* Gregory)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Krieger 1931 (as *Pinnularia subcapitata* Greg.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Navicula subcapitata* Ralfs, fossil)

Site: Tambores, Furnas
Reference: Chaves 1908 (as *Navicula subcapitata* Ralfs, fossil)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula subcapitata* Ralfs)
Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)
Site: Pico da Vara
Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Pinnularia subcapitata* Gregory)
Municipality: Ribeira Grande (São Miguel Island)
Site: Ribeira Grande
Reference: Gonçalves et al. 2008 (as *Pinnularia subcapitata*)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Pinnularia subcapitata*)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Pinnularia subcapitata*)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)

***Pinnularia subcapitata* var. *appendiculata* Willi Krieger 1930, p. 143; pl. 4, fig. 12 [CAS ref. 001736]**

Distribution (Fig. 1053):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Krieger 1931 (as *Pinnularia subcapitata* Greg. var. *appendiculata*)

***Pinnularia subcapitata* var. *azorica* Holmboe 1901**, v. 39: p. 274
[CAS ref. -]

Distribution (Fig. 1054):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg. var. *azorica*)

***Pinnularia subcapitata* var. *elongata* Krammer 1992**, p. 108, 176;
pl. 38, fig. 1-11, pl. 39, fig. 1-15 [CAS ref. 006262]

Distribution (Fig. 1055):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

REGION: CENTRO

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer); Ferreira da Silva et al. 2009 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)
Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)
Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)
Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer); Ferreira da Silva et al. 2009 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

***Pinnularia subcapitata* var. *hybrida* (Grunow in Van Heurck) Frenguelli 1933, p. 401 [CAS ref. 000356]**

Basionym: *Navicula bicapitata* var. *hybrida* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 1056):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst. var. *hybrida* Grun.)

Site: Guarda

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst. var. *hybrida* Grun.)

***Pinnularia subcapitata* f. *lata* Manguin 1942**, p. 143; pl. 3, fig. 52
[CAS ref. 000623]

Distribution (Fig. 1057):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia subcapitata* Greg. v. *paucistriata* Grun. fo. *lata* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. v. *paucistriata* Grun. fo. *lata* Manguin)

***Pinnularia subcapitata* var. *paucistriata* (Grunow in Van Heurck)
Cleve 1895**, p. 75 [CAS ref. 000949]

Basionym: *Navicula subcapitata* var. *paucistriata* Grunow in Van Heurck 1880
[CAS ref. 000895]

Distribution (Fig. 1058):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Pinnularia subcapitata* v. *paucistriata* Grun.)

***Pinnularia subcapitata* var. *stauroneiformis* (Van Heurck) O.
Müller 1898**, p. 20 [CAS ref. 001398]

Basionym: *Navicula subcapitata* var. *stauroneiformis* Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 1059):

REGION: NORTE

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Navicula subcapitata* v. *stauroneiformis*)

***Pinnularia subcapitata* f. *typica* J.B. Petersen 1928a**, p. 409; fig. 30 b [CAS ref. 000742]

Distribution (Fig. 1060):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *sublanceolata* B. Petersen fo. *typica* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *sublanceolata* B. Petersen fo. *typica* B. Petersen)

***Pinnularia subcapitata* f. *undulata* O. Müller ex Hustedt 1930**, p. 317 (as *Pinnularia subcapitata* var. *hilseana* f. *undulata*) [CAS ref. 000502]

Distribution (Fig. 1061):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll. fo. *undulata* O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll. fo. *undulata* O. Müll.)

***Pinnularia subcommutata* Krammer 1992**, p. 136-137; pl. 52, fig. 10 [CAS ref. 006262]

Distribution (Fig. 1062):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcumutata* Krammer)

***Pinnularia subgibba* Krammer 1992**, p. 126, 176; pl. 46, fig. 1-4, 6-7, pl. 47, fig. 2-4, 6 [CAS ref. 006262]

Distribution (Fig. 1063):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Pinnularia subgibba*)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia subgibba* var. *subgibba* Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia subgibba* Krammer var. *subgibba*)

***Pinnularia subgibba* var. *hustedtii* Krammer 1992, p. 127-128 & 177; pl. 47, fig. 1 [CAS ref. 006262]**

Distribution (Fig. 1064):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer var. *hustedtii* Krammer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer var. *hustedtii* Krammer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia subgibba* Krammer var. *hustedtii* Krammer)

***Pinnularia subgigas* Krammer 2000**, p. 180, 238; pl. 200, fig. 2-5
[CAS ref. 009351]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia subgigas* Krammer)

***Pinnularia subrostrata* (A. Cleve) Cleve-Euler 1955**, p. 58 [CAS ref. 001043]

Basionym: *Pinnularia divergentissima* var. *subrostrata* A. Cleve 1895 [CAS ref. 000243]

Distribution (Fig. 1065):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Pinnularia subrostrata* Cleve)

***Pinnularia subrupestris* Krammer 1992**, p. 143, 177; pl. 53, fig. 8-13
[CAS ref. 006262]

Distribution (Fig. 1066):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subrupestris* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subrupestris* Krammer)

***Pinnularia subsolaris* (Grunow) Cleve 1895**, p. 84 [CAS ref. 000949]

Basionym: *Navicula subsolaris* Grunow 1882 [CAS ref. 000442]

Distribution (Fig. 1067):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia subsolaris*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia subsolaris*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)

Site: Not Specified

Reference: Mölder 1947 (as *Pinnularia subsolaris* (Grun.) Cleve)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia subsolaris* (Grun.) Cleve);

Bourrelly & Manguin 1946a (as *Pinnularia subsolaris* (Grun.) Cleve)

***Pinnularia subsolaris* f. *mutabilis* Manguin 1942**, p. 144; pl. 3, fig. 56 [CAS ref. 000623]

Distribution (Fig. 1068):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin)

***Pinnularia sudetica* (Hilse in Rabenhorst) M. Peragallo 1903**, p. 725 [CAS ref. 001463]

Basionym: *Navicula sudetica* Hilse 1860 [CAS ref. 002263]

Nomenclatural synonym: *Pinnularia viridis* var. *sudetica* (Hilse) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 1069):

REGION: CENTRO

- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)
Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Pinnularia sudetica* (Hilse) Peragallo)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Pinnularia sudetica* (Hilse) Peragallo)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Pinnularia sudetica* (Hilse) Peragallo)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia viridis* var. *sudetica* (Hilse) Hust., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.)

Site: Pico da Vara

References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sudetica* Hilse)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.)

***Pinnularia superdivergentissima* Chaumont & Germain 1976**, p. 587-588; fig. 1, 2 [CAS ref. 008105]

Distribution (Fig. 1070):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia superdivergentissima* Chaumont & Germain)

***Pinnularia tabellaria* Ehrenberg 1843a**, p. 422 (134); pl. 2/1, fig. 26, pl. 3/1, fig. 7 [CAS ref. 000294]

Nomenclatural synonym: *Navicula tabellaria* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1071):

REGION: CENTRO

Subregion: Cova da Beira

Municipality: Fundão (District: Castelo Branco)

Site: Outeiro do Bispo

Reference: Zimmermann 1909b (as *Navicula tabellaria* Kuetz.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia tabellaria* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Reference: Trelease 1897 (as *Navicula tabellaria* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula tabellaria* Ktz.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Navicula tabellaria* Ktz., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia tabellaria* Ehrenberg)

Site: Terceira Island

References: Holmboe 1901 (as *Pinnularia tabellaria* Ehr.); Gonçalves et al. 2010 (as *Pinnularia tabellaria* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Pico Stream, Serra da Ribeira Brava

Reference: Zimmermann 1909a (as *Navicula tabellaria* Kuetz.)

***Pinnularia tirolensis* (Metzeltin & Krammer) Krammer 2000, p. 88 [CAS ref. 009351]**

Basionym: *Pinnularia subgibba* var. *tirolensis* Metzeltin & Krammer in Lange-Bertalot & Metzeltin 1996 [CAS ref. 007048]

Distribution (Fig. 1072):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia tirolensis* (Metzeltin & Krammer) Krammer)

***Pinnularia tirolensis* var. *julma* Krammer 2000**, p. 88, 220; pl. 65, fig. 6, 11-13 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia tirolensis* var. *julma* Krammer)

***Pinnularia viridiformis* Krammer 1992**, p. 160-161; pl. 1, fig. 4, pl. 4, fig. 1-4, pl. 68, fig. 1-4, pl. 69, fig. 1-5 [CAS ref. 006262]

Distribution (Fig. 1073):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia viridiformis* Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia viridiformis* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia viridiformis* Krammer)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pinnularia viridiformis* Krammer)

***Pinnularia viridis* (Nitzsch) Ehrenberg 1843a**, p. 305 (17), 385; pl. 1/1, fig. 7 [CAS ref. 000294]

Basionym: *Bacillaria viridis* Nitzsch 1817 [CAS ref. 000684]

Nomenclatural synonym: *Navicula viridis* (Nitzsch) Ehrenberg 1835 [CAS ref. 000284]

Distribution (Fig. 1074):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Celho

Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)

- Municipality: Vieira do Minho (District: Braga)
 Site: Malhadoira, Ventosa (Serra do Gerês)
 Reference: González-Guerrero 1949 (as *Pinnularia viridis* (Nitzsch.) Ehr.)
- Subregion: Cávado
 Municipality: Terras de Bouro (District: Braga)
 Site: Pico de Borrageira (Serra do Gerês)
 Reference: González-Guerrero 1949 (as *Pinnularia viridis* (Nitzsch.) Ehr.)
- Subregion: Entre Douro e Vouga
 Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Subregion: Grande Porto
 Municipality: Maia (District: Porto)
 Site: Parada
 Reference: Silva 1950b (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Municipality: Porto (District: Porto)
 Site: Lordelo
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
- Municipality: Vila Nova de Gaia (District: Porto)
 Site: Quinta da Bandeira
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
- Subregion: Minho-Lima
 Municipality: Arcos de Valdevez (District: Viana do Castelo)
 Site: Altar de Cabrões (Serra do Gerês)
 Reference: González-Guerrero 1949 (as *Pinnularia viridis* (Nitzsch.) Ehr.)
- Municipality: Paredes de Coura (District: Viana do Castelo)
 Site: Insalde
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Serra do Gerês
 References: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.); Sampaio 1950 (as *Pinnularia viridis* (Nitz.) Ehrenb.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*); Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)

Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia viridis*)

Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia viridis*)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Pinnularia viridis*); Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
 Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)

Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfazazes
Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Caldeirão
References: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Cubo
Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Diz River
Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Meios
References: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.); Zimmermann 1914 (as *Navicula viridis* (Nitzsch.) Kuetz.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch.) Kuetz.)
Site: Nueme

- Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
 Site: Vela
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula viridis* (Nitzsch.) Kuetz.)
 Site: Sobral do Campo
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch.) Kuetz.)
- Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Castelo Novo, Alpreade Stream (Tagus Basin)
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch.) Kuetz.)
 Site: Outeiro do Bispo
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch.) Kuetz.)
 Site: Serra da Gardunha
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch.) Kuetz.)
- Subregion: Dã-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzsch.) Ehrenberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzsch.) Ehrenberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzsch.) Ehrenberg)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzsch.) Ehrenberg)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch.) Ehrenberg)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzsch.) Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzsch.) Ehrenberg)
- Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Pinnularia viridis* (Nitzsch.) Ehr.)
- Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Catefica

Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
Site: Ponte de Rol, Sizandro River
Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
Site: Santa Cruz
Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Pinnularia viridis* (Nitzsch) Ehrenberg); Gil et al. 1991 (as *Pinnularia viridis*)

REGION: LISBOA

Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Pinnularia viridis* (Nitzsch.) Ehr., fossil)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula viridis*); Oliveira 1987 (as *Navicula viridis* Kz.)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Navicula viridis*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia viridis* (Nitzsch) Ehr., fossil)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Navicula viridis*)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula viridis* Kg., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula viridis* Kg., fossil)

Site: Not Specified

Reference: Silva 1946b (as *Pinnularia viridis* (Nitzsch) Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Site: Not Specified

Reference: Trelease 1897 (as *Navicula viridis* Kütz.)

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Municipality: Horta (Faial Island)

Site: Flamengos

Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Municipality: Lajes das Flores (Flores Island)

Site: Fazenda

Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

- References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Municipality: Ponta Delgada (São Miguel Island)
- Site: Lagoa do Canário
Reference: Krieger 1931 (as *Pinnularia viridis* Ehrb.)
- Site: Lagoa Grande
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Lagoa das Sete Cidades
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Pico do Carvão
Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Pico da Cruz
Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Municipality: Povoação (São Miguel Island)
- Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Navicula viridis* Ktz.)
- Site: Furnas
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Jose de Canto park, near Furnas
Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Lagoa das Furnas
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Chaves 1908 (as *Navicula viridis* Ktz.); Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Pico da Vara
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Pico Verde
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Ribeira Quente
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Navicula viridis* Ktz., fossil)
- Site: Tambores, Furnas
Reference: Chaves 1908 (as *Navicula viridis* Ktz., fossil)

Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: Lagoa Comprida
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Ribeira Grande (Flores Island)
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: Not Specified
Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)

Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)

Municipality: Not Specified
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: Rochão (Flores Island)
Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Terceira Island
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Not Specified
Reference: Gonçalves 2008 (as *Pinnularia viridis* var. *viridis* (Nitzsch) Ehrenberg morphotype 1)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Santa Luzia Stream

Reference: Zimmermann 1909a (as *Navicula viridis* (Nitzsch.) Kuetz.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Pinnularia viridis* (Nitzsch) Ehrenberg var. *viridis* morphotype 1)

***Pinnularia viridis* var. *commutata* (Grunow in Schmidt 1876) Cleve 1895, p. 91 [CAS ref. 000949]**

Basionym: *Navicula commutata* Grunow in Schmidt 1876 [CAS ref. 012450]

Nomenclatural synonyms: *Navicula viridis* var. *commutata* (Grunow in Schmidt) Truan y Luard 1884 [CAS ref. 002374]

Distribution (Fig. 1075):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Raivo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)
- Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfazazes
- Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)
- Site: Caldeirão
- References: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)
- Site: Cubo
- Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)
- Site: Diz River
- Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)
- Site: Meios
- References: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)
- Site: Vela
- Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)
- Site: Vila Patrício
- Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)
- Subregion: Cova da Beira
- Municipality: Covilhã (District: Castelo Branco)
- Site: Covilhã

References: Zimmermann 1910 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula viridis* Ktz. var. *commutata* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Curral dos Romeiros, João Gomes Stream

Reference: Zimmermann 1909 (as *Navicula viridis* (Nitzsch.) Kuetz. var. *commutata* Grun.)

***Pinnularia viridis* var. *fallax* Cleve 1895, p. 91 [CAS ref. 000949]**

Distribution (Fig. 1076):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Pinnularia viridis* var. *fallax* Cl.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Pinnularia viridis* var. *fallax* Cl.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Pinnularia viridis* var. *fallax* Cl.)

Pinnularia viridis var. *intermedia* Cleve 1891, p. 22 [CAS ref. 000229]

Distribution (Fig. 1077):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *intermedia* Cleve); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr. v. *intermedia* Cleve)

***Pinnularia* sp.**

Distribution (Fig. 1078):

REGION: NORTE

Subregion: Cávado

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinularia* sp.)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinularia* sp.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Pinularia* sp.)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Pinularia* sp.)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)

Site: Barragem de Covas, Coura River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Pinularia* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinularia* sp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Pinularia* sp.)

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Pinularia* sp.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Pinularia* sp.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Pinularia* sp.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Pinularia* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinularia* sp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

Reference: Oliveira & Monteiro 1995 (as *Pinularia* sp.); Oliveira 1996
(as *Pinularia* sp.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Pinnularia* spp.)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Pinularia* sp.)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Pinularia* sp.); Fernandes et al. 1987 (as
Pinularia sp.)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Pinularia* sp.)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Pinularia* sp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinularia* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Pinnularia* spp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Pinularia* sp.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Pinnularia* species)

***Placoneis Mereschowsky 1903*, p. 3**
[CAS ref. 001384]

***Placoneis anglica* (Ralfs in Pritchard) R.L. Lowe in Johansen et al. 2004**, p. 24 [CAS ref. 012667]

Basionym: *Navicula anglica* Ralfs in Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 1079):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula anglica* Ralfs)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula anglica*)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula anglica*)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula anglica* Ralfs)
Municipality: Anadia (District: Aveiro)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula anglica*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula anglica* Ralfs)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula anglica* Ralfs)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula anglica*)
 Subregion: Dão-Lafões
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Navicula anglica* Ralfs); Gil et al. 1989-1990 (as *Navicula anglica*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula anglica* Ralfs)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Navicula anglica*)
 Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Navicula anglica*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Nabão River (Tagus Basin)
 Reference: Rodrigues et al. 1982 (as *Navicula anglica*)

REGION: ALENTEJO

Subregion: Alentejo Central
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 Reference: Oliveira & Monteiro 1995 (as *Navicula anglica*); Oliveira 1996 (as *Navicula anglica*)
 Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Navicula anglica* Ralfs)
 Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1984a (as *Navicula anglica*)
 Municipality: Santiago do Cacém (District: Setúbal)
 Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Navicula anglica*)
 Subregion: Alto Alentejo
 Municipality: Castelo de Vide (District: Portalegre)

Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula anglica*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Navicula anglica* Ralfs)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Navicula anglica* Ralfs)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Navicula anglica*)
Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula anglica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Navicula anglica* Ralfs); Bourrelly & Manguin 1946a (as *Navicula anglica* Ralfs)

***Placoneis anglophila* (Lange-Bertalot) Lange-Bertalot in Metzeltin, Lange-Bertalot & García-Rodríguez 2005, p. 168 [CAS ref. 012898]**

Basionym: *Navicula anglophila* Lange-Bertalot in Lange-Bertalot & Krammer 1987 [CAS ref. 006173]

Nomenclatural synonyms: *Navicula pseudanglica* Lange-Bertalot in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]

Placoneis pseudanglica E.J. Cox 1987 [CAS ref. 006795]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Almeida 1998 (as *Navicula pseudanglica* Lange-Bertalot); INAG I.P. 2008 (as *Placoneis pseudanglica* (Lange-Bertalot) Cox)

***Placoneis clementioides* (Hustedt) E.J. Cox 1987**, p. 155; fig. 13-16, 39, 41, 43, 44 [CAS ref. 006795]

Basionym: *Navicula clementioides* Hustedt 1944 [CAS ref. 002271]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula clementioides* Hustedt)

***Placoneis clementis* (Grunow) E.J. Cox 1987**, p. 155; fig. 28-33 [CAS ref. 006795]

Basionym: *Navicula clementis* Grunow 1882 [CAS ref. 000442]

Distribution (Fig. 1080):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula clementis*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula clementis*)

Municipality: Not Specified

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula clementis*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Placoneis clementis* (Grun.) Cox)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Placoneis clementis* (Grun.) Cox)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula clementis* Grunow); Nunes 2007 (as *Placoneis clementis* (Grun.) Cox)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Navicula clementis*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Navicula clementis*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula clementis* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula clementis* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Placoneis clementis* (Grun.) Cox); Ferreira da Silva et al. 2009 (as *Placoneis clementis* (Grun.) Cox)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Placoneis clementis* (Grun.) Cox)

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula clementis* Grunow); Gil et al. 1989-1990 (as *Navicula clementis*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula clementis* Grunow); Gil et al. 1989-1990 (as *Navicula clementis*)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula clementis*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula clementis* Grunow)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula clementis*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula clementis*)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula clementis* Grunow)
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula clementis* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula clementis* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula clementis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Placoneis clementis* (Grunow) Cox)
Site: Not Specified
Reference: Gonçalves 2008 (as *Placoneis clementis* (Grunow) Cox)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula clementis* Grunow (*Placoneis*))

***Placoneis elginensis* (W. Gregory) E.J. Cox 1987**, p. 155; fig. 20-27, 34, 45, 46, 51 [CAS ref. 006795]

Basionym: *Pinnularia elginensis* W. Gregory 1856 [CAS ref. 000397]

Nomenclatural synonyms: *Navicula elginensis* (W. Gregory) Ralfs in Pritchard 1861 [CAS ref. 001063]

Navicula exigua (W. Gregory) Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 1081):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula elginensis* (Gregory) Ralfs)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula elginensis* (Gregory) Ralfs)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula elginensis* (Gregory) Ralfs)

Municipality: Estarreja (District: Aveiro)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula elginensis* (Gregory) Ralfs)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula elginensis* (Gregory) Ralfs)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Placoneis elginensis* (Greg) Cox)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Placoneis elginensis* (Greg) Cox)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Placoneis elginensis* (Greg) Cox)

Site: Not Specified

Reference: Gonçalves 2008 (as *Placoneis cf. elginensis* (Greg.) Cox)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula elginensis* (Gregory) Ralfs in Pritchard)

***Placoneis elginensis f. exigua* (W. Gregory) Bukhtiyarova 1995, v. 5(4): p. 419 [CAS ref. 008000]**

Basionym: *Pinnularia exigua* W. Gregory 1854 [CAS ref. 000393]

Nomenclatural synonym: *Navicula exigua* (W. Gregory) Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 1082):

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula exigua*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula exigua* (Greg.) Müller)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Placoneis exigua* (Gregory) Mereschkovsky)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Placoneis exigua* (Gregory) Mereschkovsky)

***Placoneis gastrum* (Ehrenberg) Mereschkovsky 1903**, p. 13; pl. 1, fig. 17 [CAS ref. 001384]

Basionym: *Pinnularia gastrum* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Navicula gastrum* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1083):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gastrum* (Ehrenberg) Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula gastrum* (Ehrenberg) Kützing)

Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Navicula gastrum* Ehr.)
Site: Caldeirão
References: Carvalho 1913 (as *Navicula gastrum* Ehr.); Santos & Carvalho 2001 (as *Navicula gastrum* Ehr.)
Site: Diz River
Reference: Carvalho 1913 (as *Navicula gastrum* Ehr.)
Site: Gonçalo
Reference: Carvalho 1913 (as *Navicula gastrum* Ehr.)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Navicula gastrum*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Navicula gastrum*); Oliveira 1996 (as *Navicula gastrum*)

Subregion: Alto Alentejo
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Navicula gastrum*)

***Placoneis neglecta* R.L. Lowe in Johansen et al. 2004**, p. 24 [CAS ref. 012667]

Basionym: *Navicula neglecta* Krasske 1929 [CAS ref. 000582]

Nomenclatural synonym: *Navicula dicephala* var. *neglecta* (Krasske) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 1084):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula dicephala* v. *neglecta*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula dicephala* v. *neglecta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Navicula dicephala* v. *neglecta* (Krasske) Hust.)

***Placoneis placentula* Heinzerling 1908**, p. 71; pl. 1, fig. 20 [CAS ref. 001261]

Basionym: *Pinnularia placentula* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Navicula placentula* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1085):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Placoneis placentula* (Ehrenberg) Heinzerling)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula placentula* (Ehrenberg) Kützing)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula placentula*)

REGION: ALENTEJO

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Navicula placentula* Ehrenberg)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Navicula placentula*)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula placentula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Navicula placentula* (Ehr.) Grun.)
Municipality: Not Specified
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Placoneis placentula* (Ehrenberg) Mereschkovsky)

***Placoneis porifera* (Hustedt) E.J. Cox 2003**, p. 74 [CAS ref. -]

Basionym: *Navicula porifera* Hustedt 1944 [CAS ref. 002271]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula porifera* Hustedt)

***Planothidium* Round & Bukhtiyarova 1996, p. 351**
[CAS ref. 006778]

***Planothidium biporumum* (M.H. Hohn & Hellerman) Lange-Bertalot 1999a, p. 281 [CAS ref. 012674]**

Basionym: *Achnanthes biporoma* M.H. Hohn & Hellerman 1963 [CAS ref. 000486]

Nomenclatural synonym: *Achnanthes lanceolata* subsp. *biporoma* (M.H. Hohn & Hellerman) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes lanceolata* (Breb.) Grun. ssp. *biporoma* (Hohn & Hell.) Lange-Bert.)

***Planothidium calcar* (Cleve) Round et Bukhtiyarova 1996, p. 353**
[CAS ref. 006778]

Basionym: *Eucocconeis calcar* (Cleve) Cleve 1895 [CAS ref. 000949]

Nomenclatural synonym: *Achnanthes calcar* Cleve 1891 [CAS ref. 000229]

Distribution (Fig. 1086):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

References: Johansson 1977 (as *Achnanthes* cfr. *calcar* Cleve); Gonçalves et al. 2010 (as *Planothidium calcar* (Cleve) M. B. Edlund)

***Planothidium conspicuum* (Ant. Mayer) E. Morales 2006, p. 327**
[CAS ref. 012807]

Basionym: *Achnanthes conspicua* Ant. Mayer 1919 [CAS ref. 000637]

Nomenclatural synonym: *Platessa conspicua* (Ant. Mayer) Lange-Bertalot in Krammer & Lange-Bertalot 2004 [CAS ref. 013110]

Distribution (Fig. 1087):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Achnanthes conspicua* A. Mayer); Nunes 2007 (as *Achnanthes conspicua* A. Mayer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Platessa conspicua* (A. Mayer) Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Platessa conspicua* (A. Mayer) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Platessa conspicua* (A. Mayer) Lange-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Achnanthes conspicua* A. Mayer)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes conspicua* A. Mayer)

***Planothidium dau* (Foged) E. Morales 2006**, p. 331 [CAS ref. 012807]

Basionym: *Achnanthes dau* Foged 1962 [CAS ref. 000329]

Distribution (Fig. 1088):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes dau* Foged)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes dau* Foged)
Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau* (Foged) Lange-Bertalot, *Achnantheiopsis* is an illegitimate and superfluous genus)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau* (Foged) Lange-Bertalot, *Achnantheiopsis* is an illegitimate and superfluous genus)
Site: Valmaior (downstream of the mouth of River Filvida), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau* (Foged) Lange-Bertalot, *Achnantheiopsis* is an illegitimate and superfluous genus)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau* (Foged) Lange-Bertalot, *Achnantheiopsis* is an illegitimate and superfluous genus)
Site: Pessegueiro do Vouga, Vouga River, downstream of the mouth of Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau* (Foged) Lange-Bertalot, *Achnantheiopsis* is an illegitimate and superfluous genus)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: Almeida & Gil 2001 (as *Achnanthes dau*i Foged)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium dau*i (Foged) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Planothidium dau*i (Foged) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes dau*i Foged var. *dau*i)

***Planothidium delicatulum* (Kützing) Round & Bukhtiyarova 1996,**
p. 353 [CAS ref. 006778]

Basionym: *Achnantheidium delicatulum* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Achnanthes delicatula* (Kützing) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1089):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Planothidium delicatulum* (Kütz.) Round & Bukhtiyarova)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

References: De Toni 1887 (as *Achnanthes delicatula* Kütz.); Colmeiro 1889 (as *Achnantheidium delicatulum* Kg.); Zimmermann 1909b (as *Achnanthes delicatula* (Kuetz.) Grun.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: Abrantes et al. 2006 (as *Achnanthes delicatula*)

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes delicatula* (Kützing) Grun. ssp. *delicatula* Grunow in Cl. & Grun.)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Planothidium delicatulum* (Kützing) Round & Bukhtiyarova)
- Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)
- Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Planothidium delicatulum* (Kützing) Round & Bukhtiyarova)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes delicatula* (Kützing) Grun. ssp. *delicatula* Grunow in Cl. & Grun.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes delicatula*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes delicatula*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Achnanthes delicatula*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Achnanthes delicatula* (Kützing) Grunow)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Achnanthes delicatula* (Kützing) Grunow in Cleve & Grunow)
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Achnanthes delicatula*)
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Achnanthes delicatula*); Brito & Andrade 1992 (as *Achnanthes delicatula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Achnanthes delicatula* Ktz.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Achnanthes delicatula* Ktz., fossil)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Achnanthes delicatula*)
Site: Tanque
Reference: Azevedo et al. 2005 (as *Achnanthes delicatula*)
Municipality: Not Specified
Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium delicatulum* (Kützing)
Round & L. Bukhtiyarova)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Planothidium delicatulum* (Kützing)
Round & L. Bukhtiyarova)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Planothidium delicatulum* (Kützing)
Round & L. Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Porto Santo (Porto Santo Island)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Achnanthes delicatula* (Kuetz.)
Grun.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes delicatula* (Kutz.) Grun. Ssp.
delicatula Grunow in Cl. & Grun.)

***Planothidium distinctum* (Messikommer) Lange-Bertalot 1999a**, p.
281 [CAS ref. 012674]

Basionym: *Achnanthes distincta* Messikommer 1954 [CAS ref. 000655]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes distincta* Messikommer)

***Planothidium dubium* (Grunow) Round et Bukhtiyarova 1996**, p.
352 [CAS ref. 006778]

Basionym: *Achnanthes lanceolata* var. *dubia* Grunow in Van Heurck 1880 [CAS
ref. 000895]

Nomenclatural synonym: *Achnanthes lanceolata* subsp. *dubia* (Grunow) Lange-
Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 1090):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)

Site: Caldeirão

References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes lanceolata* ssp. *dubia* (Grunow) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Achnanthes lanceolata* var. *dubia* Grun.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium dubium* (Grunow) Round & L. Bukhtiyarova)

***Planothidium ellipticum* (Cleve) Edlund in Edlund, Soninkhishig, D.M. Williams & Stoermer 2001, p. 88 [CAS ref. 009412]**

Basionym: *Achnanthes lanceolata* var. *elliptica* Cleve 1891 [CAS ref. 000229]

Distribution (Fig. 1091):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve); Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *elliptica*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve); Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *elliptica*)

Municipality: Mealhada (District: Aveiro)

Site: Viadouros, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *elliptica*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve); Gil et al. 1991 (as *Achnanthes lanceolata* v. *elliptica*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)
Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Achnanthes lanceolata* v. *elliptica* Cleve)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa

- Reference: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)
- Municipality: Ponta Delgada (São Miguel Island)
- Site: Lagoa do Canário
- Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)
- Municipality: Povoação (São Miguel Island)
- Site: Furnas
- References: Holmboe 1901 (as *Achnanthes lanceolata* var. *elliptica* Cl.); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)
- Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
- Reference: Holmboe 1901 (as *Achnanthes lanceolata* var. *elliptica* Cl.)
- Site: Pico do Gafanhoto
- Reference: Holmboe 1901 (as *Achnanthes lanceolata* var. *elliptica* Cl.)
- Site: Pico da Vara
- Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)
- Site: Ribeira Quente
- References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve); Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)
- Municipality: Praia da Vitória (Terceira Island)
- Site: Fonduras
- Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)
- Municipality: Not Specified
- Site: São Jorge Island
- Reference: Johansson 1977 (as *Achnanthes lanceolata* v. *elliptica* Cleve)
- Municipality: Not Specified
- Site: Faial Island
- Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)
- Site: Flores Island
- Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)
- Site: São Jorge Island
- Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)
- Site: São Miguel Island
- Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)
- Site: Terceira Island
- Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes lanceolata* (Breb.) Grunow v. *elliptica* Cleve)

***Planothidium engelbrechtii* (Cholnoky) Round & Bukhtiyarova 1996, p. 353 [CAS ref. 006778]**

Basionym: *Achnanthes engelbrechtii* Cholnoky 1955 [CAS ref. 000200]

Nomenclatural synonym: *Achnanthes delicatula* subsp. *engelbrechtii* (Cholnoky) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Planothidium engelbrechtii* (Choln.) Round & L. Bukhtiyarova, fossil)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes delicatula* (Kutz.) Grun. ssp. *engelbrechtii* (Choln.) Lange-Bertalot)

***Planothidium frequentissimum* (Lange-Bertalot in Krammer & Lange-Bertalot) Lange-Bertalot 1999a, p. 282 [CAS ref. 012674]**

Basionym: *Achnanthes lanceolata* subsp. *frequentissima* Lange-Bertalot in Krammer & Lange-Bertalot in H. Ettl et al. 1993 [CAS ref. 008467]

Distribution (Fig. 1092):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes lanceolata* (Breb.) Grun. var. *frequentissima* Lange-Bertalot); Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

References: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes et al. 2003 (as *Achnanthes lanceolata* (Breb.) Grun. var. *frequentissima* Lange-Bertalot)

Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes lanceolata* (Breb.) Grun. var. *frequentissima* Lange-Bertalot); Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Upstream Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Achnanthes lanceolata* (Breb.) Grun. var. *frequentissima* Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Silva Escura, upstream of Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Achnanthes lanceolata* ssp. *frequentissima*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Achnanthes lanceolata* ssp. *frequentissima*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Not Specified

Reference: Gonçalves 2008 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Achnanthes lanceolata* (Breb.) Grun. ssp. *frequentissima* Lange-Bertalot (*Planothidium*))

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Achnanthes lanceolata* (Breb.) Grun. ssp. *frequentissima* Lange-Bertalot (*Planothidium*))

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes lanceolata* (Breb.) Grun. ssp. *frequentissima* Lange-Bertalot)

***Planothidium granum* (M.H. Hohn & Hellerman) Lange-Bertalot 1999a**, p. 282 [CAS ref. 012674]

Basionym: *Achnanthes grana* M.H. Hohn & Hellerman 1963 [CAS ref. 000486]

Distribution (Fig. 1093):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes grana* Hohn & Hellerman)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes grana* Hohn & Hellermann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium granum* (Hohn & Hellermann) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium granum* (Hohn & Hellermann) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Planothidium granum* (Hohn & Hellermann) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes grana* Hohn & Hellermann)

***Planothidium haukianum* (Grunow) Round & Bukhtiyarova 1996, p. 353 [CAS ref. 006778]**

Basionym: *Achnanthes hauckiana* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nomenclatural synonym: *Achnanthes delicatula* subsp. *hauckiana* (Grunow) Lange-Bertalot & Ruppel 1980 [CAS ref. 008475]

Distribution (Fig. 1094):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium hauckianum* (Grun.) Round & Bukhtiyarova)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow
ssp. *hauckiana* (Grunow) Lange-Bertalot)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes hauckiana*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes hauckiana*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes hauckiana*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)

Municipality: Not Specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Planothidium hauckianum* (Grunow)
Round & Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium hauckianum* (Grunow)
Round & Bukhtiyarova)

Site: Not Specified

Reference: Gonçalves 2008 (as *Planothidium hauckianum* (Grun.) Round
& Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes delicatula* (Kutz.) Grun. ssp. *hauckiana* Lange-Bertalot & Ruppel)

***Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot 1999a**, p. 287 [CAS ref. 012674]

Basionym: *Achnantheidium lanceolatum* Brébisson ex Kützing 1846 [CAS ref. 002752]

Nomenclatural synonym: *Achnanthes lanceolata* (Brébisson ex Kützing) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1095):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Caldas do Gerês, Vilar da Veiga

Reference: Sampaio 1950 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Planothidium lanceolatum* (Brébisson ex Kützing))

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow); Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)

Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Achnanthes lanceolata*)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Achnanthes lanceolata*)
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Henriques 1884 (as *Achnanthes lanceolata* Bréb.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: Abrantes et al. 2006 (as *Achnanthes lanceolata*)
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*); Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)

- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Achnanthes lanceolata* (Breb.) Grunow); Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Achnanthes lanceolata*); Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
- Reference: Gil & Almeida 1993 (as *Achnanthes lanceolata* de Brébisson)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

- References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Achnanthes lanceolata*); Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow); Almeida 2001 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Planothidium lanceolatum* (Breb.) Round & Bukhtiyarova)

Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Achnanthes lanceolata* Brébisson)

Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Vela
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)

Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes lanceolata*)

Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes lanceolata*)

Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes lanceolata*)

Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes lanceolata*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
References: Calado 1990 (as *Achnanthes lanceolata* (Brébisson) Grunow); Gil et al. 1991 (as *Achnanthes lanceolata*); Feio et al. 2007 (as *Achnanthes lanceolata*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *lanceolata* Grunow = *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *lanceolata* Grunow = *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *lanceolata* Grunow = *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Achnanthes lanceolata*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Achnanthes lanceolata*)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Achnanthes lanceolata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Achnanthes lanceolata* (Brébisson) Grunow)

Municipality: Calheta (São Jorge Island)

Site: Calheta

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Horta (Faial Island)

Site: Flamengos

Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)

Site: Not Specified

Reference: Johansson 1977 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)

Municipality: Povoação

Site: Furnas

References: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)

Site: Lagoa das Furnas

References: Chaves 1908 (as *Achnantidium lanceolatum* Bréb.); Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun.); Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun.); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.); Gonçalves 1997 (as *Achnanthes lanceolata*)

Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)

Site: Pico da Vara
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Ribeira Quente
References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun.);
Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun.);
Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Praia da Vitória (Terceira Island)
Site: Fonduras
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Achnanthes lanceolata* (Brébisson) Grunow)

Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun.);
Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Not Specified
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: São Jorge Island
References: Johansson 1977 (as *Achnanthes lanceolata* (Bréb.) Grun.);
Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Not Specified
Reference: Gonçalves 2008 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Santa Luzia Stream
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Tanque dos Estanquinhos
Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Achnanthes lanceolata* Bréb.)

Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream
Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Ribeira Brava (Madeira Island)

Site: Pico Stream, Serra da Ribeira Brava
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Ribeira Brava
Reference: Mölder 1947 (as *Achnanthes lanceolata* Bréb.)

Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Santana (Madeira Island)

Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Ribeiro Frio
Reference: Mölder 1947 (as *Achnanthes lanceolata* Bréb.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Zimmermann 1906 (as *Achnanthes lanceolata* (Bréb.) Grun.);
INAG I.P. 2008 (as *Achnanthes lanceolata* (Breb.) Grunow var.
lanceolata Grunow)

***Planothidium oestrupii* (Cleve-Euler) Round & Bukhtiyarova
1996, p. 352 [CAS ref. 006778]**

Basionym: *Achnanthes lanceolata* var. *oestrupii* Cleve-Euler 1922 [CAS ref.
000247]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes lanceolata* var. *oestrupii*
Cleve-Euler)

***Planothidium peragallii* (Brun & Héribaud) Round &
Bukhtiyarova 1996, p. 352 [CAS ref. 006778]**

Basionym: *Achnanthes peragalloi* Brun & Héribaud in Héribaud 1893 “*peragalli*”
[CAS ref. 000481]

Distribution (Fig. 1096):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes peragallii* Brun & Héribaud)

***Planothidium rostratum* (Østrup) Lange-Bertalot 1999a, p. 285
[CAS ref. 012674]**

Basionym: *Achnanthes rostrata* Østrup 1902 [CAS ref. 005151]

Nomenclatural synonyms: *Achnanthes lanceolata* var. *rostrata* (Østrup) Hustedt
1930 [CAS ref. 000502]

Achnanthes lanceolata subsp. *rostrata* (Østrup) Lange-Bertalot in Krammer & Lange-Bertalot in H. Ettl et al. 1991 [CAS ref. 006522]

Distribution (Fig. 1097):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Østrup) Lange-Bertalot)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Achnanthes lanceolata* var. *rostrata*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes lanceolata* ssp. *rostrata* (Østrup) Hustedt)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Østrup) Lange-Bertalot)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnantheiopsis rostrata* (Oestrup) Lange-Bertalot, *Achnantheiopsis* is an illegitimate and superfluous genus)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnantheiopsis rostrata* (Oestrup) Lange-Bertalot, *Achnantheiopsis* is an illegitimate and superfluous genus)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
 Site: Minhoteira, Antuã River (Vouga Basin)

- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*); Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brebisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Achnanthes lanceolata* Bréb. var. *rostrata* Hustedt)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Municipality: Tondela (District: Viseu)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Achnanthes lanceolata* ssp. *rostrata* (Östrup) Hustedt)
- Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes lanceolata rostrata*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes lanceolata rostrata*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *rostrata* (Östrup) Hustedt); Gil et al. 1991 (as *Achnanthes lanceolata* v. *rostrata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *rostrata* (Ostrup) Hust.); Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun. var. *rostrata* (Ostrup) Hust.)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Planothidium rostratum* (Ostrup) Lange-Bertalot)

Site: Pico Island

References: Johansson 1977 (as *Achnanthes lanceolata* v. *rostrata* Hust.); Gonçalves et al. 2010 (as *Planothidium rostratum* (Ostrup) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium rostratum* (Ostrup) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Planothidium rostratum* (Ostrup) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes lanceolata* ssp. *rostrata* (Ostrup) Lange-Bertalot)

***Platessa* Lange-Bertalot in Krammer & Lange-Bertalot
2004, p. 442 [CAS ref. 013110]**

***Platessa hustedtii* (Krasske) Lange-Bertalot in Krammer & Lange-Bertalot 2004**, p. 445 [CAS ref. 013110]

Basionym: *Cocconeis hustedtii* Krasske 1923a [CAS ref. 000579]

Distribution (Fig. 1098):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Cocconeis hustedtii* Krasske)

***Pleurosigma* W. Smith 1852**, p. 2
[CAS ref. 000862]

***Pleurosigma angulatum sensu* W. Smith emend Sterrenburg 1991**,
v. 34(6): p. 566; fig. 2-34 [CAS ref. 008844]

Distribution (Fig. 1099):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1945 (as *Pleurosigma angulatum* W. Sm., fossil); Silva 1946b (as *Pleurosigma angulatum* (Quek.) W. Sm., fossil)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pleurosigma angulatum* (Quek.) W. Smith, fossil)

***Pleurosigma elongatum* W. Smith 1852**, p. 6; pl. 1, fig. 4 [CAS ref. 000862]

Distribution:

REGION: ALENTEJO

Subregion: Not Specified

Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pleurosigma elongatum*)

***Pleurosigma spencerii* var. *smithii* Grunow in Cleve & Grunow 1880, p. 59 [CAS ref. 000241]**

Distribution (Fig. 1100):

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Pleurosigma spencerii* var. *smithii*)

***Pleurosigma spencerii* var. *splendida* (Ehrenberg) Van Heurck [CAS ref. -]**

Distribution (Fig. 1101):

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Pleurosigma spencerii* var. *splendida* (E.) Van Heurck)

***Pleurosigma strigosum* W. Smith 1852, p. 7; pl. 1, fig. 6 [CAS ref. 000862]**

Nomenclatural synonym: *Pleurosigma angulatum* var. *strigosa* (*strigosum*) (W. Smith) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1102):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Pleurosigma angulatum* var. *strigosum* (W. Sm.) V. H., fossil)

***Pleurosigma* sp.**

Distribution (Fig. 1103):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pleurosigma* sp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Pleurosigma* sp.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Pleurosigma* sp.)

Subregion: Oeste

Municipality: Alenquer (District: Lisboa)

Site: Alenquer, Alenquer Reservoir

Reference: Frade 1941b (as *Pleurosigma* sp.)

Site: Alenquer, Alenquer River (Tagus Basin)

Reference: Frade 1941a (as *Pleurosigma* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Pleurosigma* spp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1987 (as *Pleurosigma* sp.)

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Pleurosigma* sp.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Pleurosigma* sp.)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pleurosigma* sp.)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Pleurosigma* sp.)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pleurosigma* spp.)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pleurosigma* spp.)

***Pleurosira* (Meneghini) V.B.A. Trevisan 1848, p. 96**
[CAS ref. 001898]

***Pleurosira laevis* (Ehrenberg) Compère 1982, p. 177-178; fig. 1-17, 20, 39** [CAS ref. 003702]

Basionym: *Biddulphia laevis* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Cerataulus laevis* (Ehrenberg) Ralfs in Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 1104):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pleurosira laevis* (Ehrenberg) Compère)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Cerataulus laevis* Ralfs.)

***Prestauroneis* Bruder & Medlin 2008, p. 325**
[CAS ref. 013140]

***Prestauroneis integra* (W. Smith) Bruder in Bruder & Medlin 2008, p. 325** [CAS ref. 013140]

Basionym: *Pinnularia integra* W. Smith 1856 [CAS ref. 001007]

Nomenclatural synonym: *Navicula integra* (W. Smith) Ralfs in Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 1105):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula integra* (W. Smith) Ralfs)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula integra* (W. Smith) Ralfs)

***Psammodictyon* D.G. Mann in Round, Crawford & Mann 1990, p. 675 [CAS ref. 003245]**

***Psammodictyon mediterraneum* (Hustedt in A.W.F. Schmidt) D.G. Mann in Round, Crawford & Mann 1990, p. 676 [CAS ref. 003245]**

Basionym: *Nitzschia mediterranea* Hustedt in Schmidt 1921 [CAS ref. 012503]

Distribution (Fig. 1106):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia mediterranea* (?))

***Psammothidium* Bukhtiyarova & Round 1996, p. 3 [CAS ref. 006789]**

***Psammothidium altaicum* Bukhtiyarova in Bukhtiyarova & Round 1996, p. 5; fig. 12-15 [CAS ref. 006789]**

Distribution (Fig. 1107):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Psammothidium altaicum* (Poretzky) Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Psammothidium altaicum* (Poretzky) Bukhtiyarova)

Site: Not Specified

Reference: Gonçalves 2008 (as *Psammothidium altaicum* Bukhtiyarova)

***Psammothidium chlidanos* (M.H. Hohn & Hellerman) Lange-Bertalot 1999a**, p. 285 [CAS ref. 012674]

Basionym: *Achnanthes chlidanos* M.H. Hohn & Hellerman 1963 [CAS ref. 000486]

Distribution (Fig. 1108):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn & Hellerman)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn & Hellerman)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn & Hellerman)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn & Hellerman)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Achnanthes chlidanos* Hohn & Hellerman)

Psammothidium kryophilum (J.B. Petersen) E. Reichardt 2004, p. 441 [CAS ref. 012890]

Basionym: *Achnanthes kryophila* J.B. Petersen 1924 [CAS ref. 000741]

Distribution (Fig. 1109):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Achnanthes kryophila*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Achnanthes kryophila* Petersen)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Achnanthes kryophila* Petersen)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Achnanthes kryophila* Petersen)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Psammothidium kryophilum* (J.B. Petersen) E. Reichardt)

***Psammothidium levanderi* (Hustedt) Bukhtiyarova 2008**, p. 62
[CAS ref. 013313]

Basionym: *Achnanthes levanderi* Hustedt 1933 [CAS ref. 000507]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Psammothidium levanderi* (Hustedt) Czarnecki, fossil)

***Psammothidium marginulatum* (Grunow) Bukhtiyarova & Round 1996**, p. 5; fig. 2-11 [CAS ref. 006789]

Basionym: *Achnanthes marginulata* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1110):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes marginulata* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes marginulata* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Achnanthes marginulata* Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Achnanthes marginulata* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Jorge Island
References: Johansson 1977 (as *Achnanthes* cf. *marginulata* Grun.);
Gonçalves et al. 2010 (as *Psammothidium marginulatum* (Grunow)
Bukhtiyarova & Round)

***Psammothidium sacculum* (J.R. Carter) Bukhtiyarova in
Bukhtiyarova & Round 1996, p. 27 [CAS ref. 006789]**

Basionym: *Achnanthes sacculus* J.R. Carter in J.R. Carter & Bailey-Watts 1981
[CAS ref. 003626]

Distribution:

REGION: CENTRO
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Achnanthes saccula* Carter)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes saccula* Carter in Carter &
Bailey-Watts)

***Psammothidium scoticum* (Flower & V.J. Jones) Bukhtiyarova &
Round 1996, p. 22; fig. 76-77 [CAS ref. 006789]**

Basionym: *Achnanthes scotica* Flower & V.J. Jones 1989 [CAS ref. 008204]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

References: Gonçalves et al. 2010 (as *Psammothidium scoticum* (Flower & Jones) Bukht. & Round, fossil)

***Psammothidium semiapertum* (Hustedt) Aboal in Aboal et al. 2003,**
p. 175 [CAS ref. 012666]

Basionym: *Cocconeis semiaperta* Hustedt 1945 [CAS ref. 000518]

Nomenclatural synonym: *Achnanthes hintzii* Lange-Bertalot & Krammer 1989
[CAS ref. 006174]

Distribution (Fig. 1111):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes hintzii* Lange-Bertalot et
Krammer)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes hintzii* Lange-Bertalot et
Krammer)

***Psammothidium ventralis* (Krasske) Bukhtiyarova & Round 1996,**
v. 11(1): p. 7; fig. 16-19 [CAS ref. 006789]

Basionym: *Navicula ventralis* Krasske 1923b [CAS ref. 012709]

Nomenclatural synonym: *Achnanthes ventralis* (Krasske) Lange-Bertalot in
Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 1112):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Psammothidium ventrale* (Krasske)
Bukhtiyarova & Round)

Site: Not Specified

Reference: Gonçalves 2008 (as *Psammothidium ventralis* (Krasske)
Bukhtiyarova & Round)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Achnanthes ventralis* (Krasske) Lange-Bertalot)

***Psammosynedra* Round 1993a**, p. 211
[CAS ref. 006349]

***Psammosynedra closterioides* (Grunow) Round 1993b**, p. 211; fig. 1-12 11 [CAS ref. 008734]

Basionym: *Synedra closterioides* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 1113):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Synedra closteroides*)

***Pseudo-eunotia* Grunow in Van Heurck 1881**,
pl. 35, fig. 22,23 [CAS ref. 001035]

***Pseudoeunotia lunaris* (Ehrenberg) De Toni 1892a**, p. 808 [CAS ref. 000950]

Basionym: *Synedra lunaris* Ehrenberg 1832b [CAS ref. 000282]

Distribution (Fig. 1114):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Pseudo-Eunotia lunaris* (Ehr.) Grun.)

***Pseudo-nitzschia* H. Peragallo in H. Peragallo & Peragallo 1900, p. 263, 298 [CAS ref. 000733]**

***Pseudonitzschia seriata* (Cleve) H. Peragallo & Peragallo 1899, p. 300; pl. 72, fig. 28 [CAS ref. 001054]**

Basionym: *Nitzschia seriata* Cleve 1883 [CAS ref. 000224]

Distribution (Fig. 1115):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Not Specified

Site: Lima River (Lima Basin)

Reference: Cerqueira da Silva 1990 (as *Nitzschia seriata*)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Navicula seriata*)

***Pseudostaurosira* D.M. Williams & Round 1988, p. 276 [CAS ref. 003205]**

***Pseudostaurosira brevistriata* (Grunow in Van Heurck) D.M. Williams & Round 1987, p. 276; fig. 28-31 [CAS ref. 003171]**

Basionym: *Fragilaria brevistriata* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1116):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria brevistriata* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

- Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
 Site: Sernada do Vouga, Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Pseudostaurosira brevistriata* (Grun. In Van Heurck) Williams & Round)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
- Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
 Site: Vessada, Fontão Creek (Vouga Basin)

- Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Nueme
Reference: Carvalho 1913 (as *Fragilaria brevistriata* Grunow)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*); Almeida 1998 (as *Fragilaria brevistriata* Grunow)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Fragilaria brevistriata* Grunow); Almeida & Gil 2001 (as *Fragilaria brevistriata* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira brevistriata* (Grunow) Williams & Round)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira brevistriata* (Grunow) Williams & Round)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pseudostaurosira brevistriata* (Grunow in Van Heurck) Williams & Round)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria brevistriata* Grunow (*Pseudostaurosira*))

***Pseudostaurosira parasitica* (W. Smith) E. Morales 2003**, p. 287; fig. 27-43, 54-58 [CAS ref. -]

Basionym: *Odontidium parasiticum* W. Smith 1856 [CAS ref. 001007]

Nomenclatural synonyms: *Fragilaria parasitica* (W. Smith) Grunow in Van Heurck 1881 [CAS ref. 001035]

Synedra parasitica (W. Smith) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 1117):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Synedra parasitica* (W. Smith) Hustedt)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra parasitica*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra parasitica*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra parasitica* (W. Smith) Hustedt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida 1998 (as *Fragilaria parasitica* (W. Smith) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Synedra parasitica* (W. Sm.) Hust.);
Bourrelly & Manguin 1946a (as *Synedra parasitica* (W. Sm.) Hust.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira parasitica* (W. Smith) Morales)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira parasitica* (W. Smith) Morales)
Site: Not Specified
Reference: Gonçalves 2008 (as *Pseudostaurosira parasitica* (W. Smith) Morales)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria parasitica* (W. Sm.) Grun. Var. *parasitica*)

***Pseudostaurosira parasitica* var. *subconstricta* (Grunow) E. Morales 2003**, p. 287 [CAS ref. -]

Basionym: *Fragilaria parasitica* var. *subconstricta* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonym: *Synedra parasitica* var. *subconstricta* (Grunow in Van Heurck) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 1118):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria parasitica* (W. Smith) Grunow var. *subconstricta* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria parasitica* (W. Smith) Grunow var. *subconstricta* Grunow)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Fragilaria parasitica* (W. Smith) Grunow var. *subconstricta* Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Synedra parasitica* (W. Smith) Hustedt var. *subconstricta* (Grunow) Hustedt)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria parasitica* (W. Sm.) Grun. var. *subconstricta* Grunow)

***Pseudostaurosira pseudoconstruens* (Marciniak) D.M. Williams & Round 1987**, v. 2(2): p. 277 [CAS ref. 003171]

Basionym: *Fragilaria pseudoconstruens* Marciniak 1982 [CAS ref. 006370]

Distribution (Fig. 1119):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Staurosira pseudoconstruens* (Marciniak) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Staurosira pseudoconstruens* (Marciniak) Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Pseudostaurosira pseudoconstruens* (Marciniak) Williams & Round)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria pseudoconstruens* Marciniak)

***Pseudostaurosira subsalina* (Hustedt) E. Morales 2005, p. 115**
[CAS ref. 012984]

Basionym: *Fragilaria construens* var. *subsalina* Hustedt 1925 [CAS ref. 001278]

Nomenclatural synonym: *Fragilaria construens* f. *subsalina* (Hustedt) Hustedt 1957 [CAS ref. 000532]

Distribution (Fig. 1120):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Fragilaria construens* v. *subsalina* Hustedt)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Fragilaria construens* f. *subsalina* (Hustedt) Hustedt)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1991 (as *Fragilaria construens* v. *subsalina*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Fragilaria construens* v. *subsalina* Hustedt); Bourrelly & Manguin 1946a (as *Fragilaria construens* v. *subsalina* Hustedt)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pseudostaurosira subsalina* (Hustedt) Morales)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pseudostaurosira subsalina* (Hustedt) Morales)

***Pseudostaurosira zeilleri* (Héribaud) D.M. Williams & Round 1987**, p. 276 [CAS ref. 003171]

Basionym: *Fragilaria zeilleri* Héribaud 1903 [CAS ref. 000992]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

References: Gonçalves 2008 (as *Pseudostaurosira zeilleri* (Héribaud) Williams & Round); Gonçalves et al. 2010 (as *Pseudostaurosira zeilleri* (Héribaud) Williams & Round, fossil)

***Punctastriata* D.M. Williams & Round 1988**, pg. 278
[CAS ref. 003205]

***Punctastriata lancettula* (Schumann) P.B. Hamilton & Siver 2008**,
p. 363 [CAS ref. 013143]

Basionym: *Fragilaria lancettula* Schumann 1867a [CAS ref. 001004]

Nomenclatural synonym: *Fragilaria pinnata* var. *lancettula* (Schumann) Hustedt
[CAS ref. 012496]

Distribution (Fig. 1121):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

***Puncticulata* Håkansson 2002, p. 21, 112**

[CAS ref. 009521]

***Puncticulata bodanica* (Grunow in Schneider) Håkansson 2002, p. 119 [CAS ref. 009521]**

Basionym: *Cyclotella bodanica* Eulenstein in Grunow 1878 [CAS ref. 000439]

Distribution (Fig. 1122):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Cyclotella bodanica*)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (*Cyclotella bodanica* Eulenst.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cyclotella bodanica* Grunow var. *bodanica* Grunow)

***Puncticulata radiosa* (Lemmermann) Håkansson 2002**, p. 114
[CAS ref. 009521]

Basionym: *Cyclotella comta* var. *radiosa* Grunow in Van Heurck 1882 [CAS ref. 001036]

Nomenclatural synonym: *Cyclotella radiosa* (Grunow in Van Heurck) Lemmermann 1900 [CAS ref. -]

Distribution (Fig. 1123):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Cyclotella radiosa* (Grunow) Lemmermann)

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella radiosa* (Grunow) Lemmermann)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Cyclotella radiosa* (Grunow) Lemmermann)

Reimeria Kociolek & Stoermer 1987, p. 457
[CAS ref. 003182]

***Reimeria sinuata* (W. Gregory) Kociolek & Stoermer emend S.E. Sala, J.M. Guerrero & Ferrario 1993**, v. 8(2): p. 441; fig. 2-6 [CAS ref. 008748]

Basionym: *Cymbella sinuata* W. Gregory 1856 [CAS ref. 000397]

Distribution (Fig. 1124):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella sinuata*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

References: Nunes et al. 2002 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes et al. 2003 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Ferreira da Silva et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek and Stoermer)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cymbella sinuata* Gregory); Gil et al. 1989-1990 (as *Cymbella sinuata*)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

References: Nunes et al. 2003 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Cymbella sinuata* Gregory)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella sinuata*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Cymbella sinuata*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Cymbella sinuata* Gregory)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek et Stoermer)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek et Stoermer)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek et Stoermer)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
Site: Rivers in the North
Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
Site: Rivers in the South
Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
Site: Tagus and Sado Sedimentary Deposits
Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Cymbella sinuata* Gregory); INAG I.P. 2008 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

***Reimeria sinuata* f. *ovata* (Hustedt) Hartley 1996**, p. 11; pl. 251, fig. 12 [CAS ref. -]

Basionym: *Cymbella sinuata* var. *ovata* Hustedt 1922a [CAS ref. 000494]

Distribution (Fig. 1125):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella sinuata* v. *ovata*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella sinuata* v. *ovata*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella sinuata* v. *ovata*)

***Reimeria uniseriata* S.E. Sala, J.M. Guerrero & Ferrario 1993**, p. 445; fig. 7-10 [CAS ref. 008748]

Distribution (Fig. 1126):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Reimeria uniseriata* Sala, Guerrero & Ferrario)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Reimeria uniseriata* Sala, Guerrero & Ferrario)

***Rhizosolenia* Brightwell 1858**, p. 94
[CAS ref. 002402]

***Rhizosolenia* sp.**

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Rhizosolenia* sp.)

***Rhoicosphenia* Grunow 1860**, p. 511
[CAS ref. 000427]

***Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot 1980d**, p. 586; fig. 1A, 3C-D, 5A [CAS ref. 006891]

Basionym: *Gomphonema abbreviatum* C. Agardh 1831 [CAS ref. 000939]

Synonym: *Rhoicosphenia curvata* (Kützing) Grunow 1860 [CAS ref. 000427], according to Krammer & Lange-Bertalot 1986, p. 381

Distribution (Fig. 1127):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Fonte de Carreiros
Reference: Colmeiro 1889 (as *Gomphonema abbreviatum* Kg.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River
(Vouga Basin)
Reference: Nunes 2007 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-
Bertalot)
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Site: Vagueira, Canal de Mira
Reference: Mendes et al. 2009 (as *Rhoicosphenia abbreviata*)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
Site: Vila Verde, Levira River (Vouga Basin)

- Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cubo
Reference: Carvalho 1913 (as *Gomphonema abbreviatum* Kuetz.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Gomphonema abbreviatum* Kuetz.);
Santos & Carvalho 2001 (as *Gomphonema abbreviatum* Kuetz.)
Site: Porto da Carne
Reference: Carvalho 1913 (as *Gomphonema abbreviatum* Kuetz.)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Rhoicosphenia abbreviata*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Rhoicosphenia abbreviata*)
- Subregion: Pinhal Interior Sul
Municipality: Vila de Rei (District: Castelo Branco)
Site: Isna Stream (Tagus Basin)
Reference: Zimmermann 1914 (as *Gomphonema abbreviatum* Ag.)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Rhoicosphenia abbreviata* (C. Agardh)
Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Rhoicosphenia abbreviata* (Agardh)
Lange-Bertalot, fossil)
- Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Rhoicosphenia abbreviata* (Agardh)
Lange-Bertalot, fossil)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Rhoicosphenia abbreviata* (Agardh)
Lange-Bertalot, fossil)
- Site: Not Specified
Reference: Gonçalves 2008 (as *Rhoicosphenia abbreviata* (Agardh)
Lange-Bertalot)

- REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: INAG I.P. 2008 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)

***Rhoicosphenia curvata* (Kützing) Grunow 1860**, p. 511 [CAS ref. 000427]

Basionym: *Gomphonema curvatum* Kützing 1833 [CAS ref. 000594]

Synonym: *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot 1980d [CAS ref. 006891], according to Krammer & Lange-Bertalot 1986, p. 381

Distribution (Fig. 1128):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Not Specified

Reference: Colmeiro 1889 (as *Gomphonema curvatum* Kg.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Rhoicosphenia curvata* (Koetz.) Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Site: Viadouros, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Rhoicosphenia curvata* (Kützing) Grunow)
 Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Rhoicosphenia curvata*)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Rhoicosphenia curvata*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Rhoicosphenia curvata*)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Rhoicosphenia curvata*)
 Site: Santa Cruz
 Reference: Zimmermann 1909b (as *Rhoicosphenia curvata* (Kuetz.) Grun.)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Rhoicosphenia curvata*);
 Cerqueira da Silva et al. 1993 (as *Rhoicosphenia curvata*)
 Site: Not Specified
 Reference: Calado 1990 (as *Rhoicosphenia curvata* (Kützing) Grunow)

REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Rhoicosphenia curvata*)

REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 References: Oliveira 1984b (as *Rhoicosphenia curvata*); Oliveira 1987 (as
Rhoicosphenia curvata (Kz.) Grun.)
 Subregion: Alentejo Litoral

- Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Rhoicosphenis curvata* (Kützing) Grunow)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Rhoicosphenia curvata*)
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Rhoicosphenia curvata* (Kütz.) Grun.)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Rhoicosphenia curvata*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Rhoicosphenia curvata* (Kütz.) Grun.);
 Fernandes et al. 1987 (as *Rhoicosphenia curvata*)
- Subregion: Lezíria do Tejo
- Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Rhoicosphenia curvata* (Kütz.) Grun., fossil)
- Municipality: Santarém (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Rhoicosphenia curvata*)
 Site: Ómnias, Tagus River (Tagus Basin)
 Reference: Brito & Andrade 1992 (as *Rhoicosphenia curvata*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Nordeste (São Miguel Island)
 Site: Serra Tronqueira
 References: Manguin 1942 (as *Rhoicosphenia curvata* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Rhoicosphenia curvata* (Kütz.) Grun.)
- Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa das Sete Cidades
 Reference: Holmboe 1901 (as *Rhoicosphenia curvata* (Kütz.) Grun.)
- Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Holmboe 1901 (as *Rhoicosphenia curvata* (Kütz.) Grun.)
 Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
 Reference: Holmboe 1901 (as *Rhoicosphenia curvata* (Kütz.) Grun.)
 Site: Lagoa das Furnas
 References: Manguin 1942 (as *Rhoicosphenia curvata* (Kütz.) Grun.);
 Bourrelly & Manguin 1946a (as *Rhoicosphenia curvata* (Kütz.) Grun.);
 Mölder 1947 (as *Rhoicosphenia curvata* (Kütz.) Grun.)
 Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Rhoicosphenia curvata*, fossil)
 Site: Tambores, Furnas

Reference: Chaves 1908 (as *Rhoicosphenia curvata*, fossil)

***Rhopalodia* O. Müller 1895, p. 57**
[CAS ref. 001776]

***Rhopalodia gibba* (Ehrenberg) O. Müller 1895, p. 65; pl. 1, fig. 15-17** [CAS ref. 001776]

Basionym: *Navicula gibba* Ehrenberg 1830 [CAS ref. 001999]

Nomenclatural synonyms: *Epithemia gibba* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Cystopleura gibba (Ehrenberg) Kuntze 1891 [CAS ref. 001330]

Distribution (Fig. 1129):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Epithemia gibba* Kg.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Rhopalodia gibba*); de Figueiredo et al. 2006 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Rhopalodia gibba*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller); Gil et al. 1989-1990 (as *Rhopalodia gibba*)

Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Rhopalodia gibba*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Municipality: Anadia (District: Aveiro)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Rhopalodia gibba*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller); Gil et al. 1989-1990 (as *Rhopalodia gibba*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Rhopalodia gibba*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)
 Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Epithemia gibba*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1909b (as *Cystopleura gibba* (Ehr.) Kunze.)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Rhopalodia gibba* (Ehr.) Müller)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Rhopalodia gibba* (Ehrenberg) O. Müller);
Gil et al. 1991 (as *Rhopalodia gibba*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Epithemia gibba*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Epithemia gibba*); Oliveira
1996 (as *Epithemia gibba*)

Subregion: Alentejo Litoral
Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Epithemia gibba*)
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
References: Oliveira 1984a (as *Epithemia gibba*); Oliveira 1987 (as
Epithemia gibba (Ehr.) O.M.)

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Epithemia gibba*)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Rhopalodia gibba*)

Subregion: Baixo Alentejo
Municipality: Mértola (District: Beja)
Site: Acid mine drainage of the São Domingos mine
Reference: Gerhardt et al. 2008 (as *Rhopalodia gibba* (Ehrenberg) O.
Müller)
Site: Reservoir in the abandoned São Domingos mine
Reference: Gerhardt et al. 2008 (as *Rhopalodia gibba* (Ehrenberg) O.
Müller)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Epithemia gibba*)

Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)

Reference: Gerhardt et al. 2008 (as *Rhopalodia gibba* (Ehrenberg) O.

REGION: ALGARVE

Subregion: Algarve

Municipality: Loulé (District: Faro)

Site: Alte

References: Lange-Bertalot & Krammer 1987 (as *Rhopalodia gibba* (Ehrenberg) O. Müller); Krammer & Lange-Bertalot 1988 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Epithemia gibba* Ehr.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Epithemia gibba* Ehr., fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Epithemia gibba* Ehr., fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia gibba* (Ehrenberg) O. Muller)

Site: Not Specified

Reference: Gonçalves 2008 (as *Rhopalodia gibba* (Ehrenberg) O. Muller)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Rhopalodia gibba* Kg.)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Cystopleura gibba* (Ehr.) Kunze)

Site: Levada do Curral dos Romeiros

Reference: Schodduyn 1927 (as *Rhopalodia gibba* Kg.)

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Rhopalodia gibba* (Ehr.) Müller)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Rhopalodia gibba* (Ehr.) O. Müller var. *gibba*)

***Rhopalodia gibba* var. *minuta* Krammer in Lange-Bertalot & Krammer 1987**, p. 79-80; pl. 45, fig. 1-6 [CAS ref. 006173]

Distribution (Fig. 1130):

REGION: ALGARVE
Subregion: Algarve
Municipality: Loulé (District: Faro)
Site: Alte
References: Lange-Bertalot & Krammer 1987 (as *Rhopalodia gibba* var. *minuta* Krammer); Krammer & Lange-Bertalot 1988 1987 (as *Rhopalodia gibba* var. *minuta* Krammer)

***Rhopalodia gibba* var. *parallela* (Grunow) H. Peragallo & Peragallo 1900**, p. 302; pl. 77, fig. 1 [CAS ref. 001055]

Basionym: *Epithemia gibba* var. *parallela* Grunow 1862 [CAS ref. 000428]

Nomenclatural synonyms: *Cystopleura gibba* var. *parallela* (Grunow) De Toni 1892a [CAS ref. 000950]
Rhopalodia parallela (Grunow) O. Müller 1895 [CAS ref. 001776]

Distribution (Fig. 1131):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller var. *parallela* Grun.)
Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller var. *parallela* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Cystopleura gibba* (Ehr.) Kunze
var. *paralella* Grun.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Rhopalodia paralella* (Grun.) Müller)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Rhopalodia gibba* (Ehr.) O. Müller var.
paralella Grun. H. Et M. Peragallo)

***Rhopalodia gibba* var. *ventricosa* (Kützing) Ant. Mayer 1913**, p. 279 [CAS ref. 000551]

Basionym: *Epithemia ventricosa* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Cystopleura gibba* var. *ventricosa* (Kützing) De Toni 1892a [CAS ref. 000950]

Distribution (Fig. 1132):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Cystopleura gibba* (Ehr.) Kunze
var. *ventricosa* (Ehr.) Grun.)

***Rhopalodia gibberula* (Ehrenberg) O. Müller 1895**, p. 58 [CAS ref. 001776]

Basionym: *Eunotia gibberula* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Epithemia gibberula* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1133):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Rhopalodia gibberula* (Ehrenberg) O. Müller)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Rhopalodia gibberula* (Ehr.) O. Müll.)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);

Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);

Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);

Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)

Site: Lagoa das Furnas

References: Chaves 1908 (as *Epithemia gibberula* Ehr.); Manguin 1942

(as *Rhopalodia gibberula* (Ehr.) O. Müll.); Bourrelly & Manguin 1946a

(as *Rhopalodia gibberula* (Ehr.) O. Müll.); Mölder 1947 (as *Rhopalodia*

gibberula (Ehr.) Müller)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)

Site: Pico da Vara

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)

Site: Ribeira Quente

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);

Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);

Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)

Site: Ribeira Grande

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Municipality: Not Specified
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg)
O.F. Müller)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg)
O.F. Müller)
Site: Pico Island
References: Johansson 1977 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg) O.F. Müller)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg)
O.F. Müller)
Site: São Jorge Island
References: Johansson 1977 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg) O.F. Müller)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg)
O.F. Müller)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Rhopalodia gibberula* (Ehr.) Müller)

***Rhopalodia gibberula* var. *producta* (Grunow) Cleve-Euler 1952, v. 3(3): p. 43; fig. 1415d-i [CAS ref. 001044]**

Basionym: *Epithemia gibberula* var. *producta* Grunow 1862 [CAS ref. 000428]

Nomenclatural synonym: *Cystopleura gibberula* (Ehrenberg) Kuntze 1891 [CAS ref. 001330]

Distribution (Fig. 1134):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Cystopleura gibberula* (Ehr.) Kunze
var. *producta* Grun.)

REGION: CENTRO

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Barro

Reference: Zimmermann 1910 (as *Cystopleura gibberula* (Ehr.) Kunze)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Rhopalodia gibberula* var. *producta* (Grun.) Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Cystopleura gibberula* (Ehr.) Kunze)

***Rhopalodia gibberula* var. *vanheurckii* O. Müller 1900, p. 292
[CAS ref. 000674]**

Distribution (Fig. 1135):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.); Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.); Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.); Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.)

***Rhopalodia musculus* (Kützing) O. Müller 1900**, p. 278, 294 [CAS ref. 000674]

Basionym: *Epithemia musculus* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1136):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not Specified

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia musculus* (Kützing) O.F. Müller)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia musculus* (Kützing) O.F. Müller)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

***Rhopalodia operculata* (C. Agardh) Håkansson 1979**, p. 166-167
[CAS ref. 008294]

Basionym: *Frustulia operculata* C. Agardh 1827 [CAS ref. 000103]

Distribution (Fig. 1137):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Rhopalodia operculata* (Agardh) Håkansson)

***Rhopalodia rupestris* (W. Smith) Krammer in Lange-Bertalot & Krammer 1987**, p. 86; pl. 49, fig. 1-6 [CAS ref. 006173]

Basionym: *Epithemia rupestris* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 1138):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *rupestris* (W. Sm.) O. Müller)

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Epithemia rupestris* Sm.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Epithemia rupestris* Sm.)

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia rupestris* (W. Smith) Krammer)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia rupestris* (W. Smith) Krammer)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia rupestris* (W. Smith) Krammer)
Site: Not Specified
Reference: Gonçalves 2008 (as *Rhopalodia rupestris* (W. Smith) Krammer)

***Rossithidium* Round & Bukhtiyarova 1996, p. 350**
[CAS ref. 006778]

***Rossithidium pusillum* (Grunow) Round & Bukhtiyarova in Bukhtiyarova 2008, p. 52 [CAS ref. 013313]**

Basionym: *Achnanthes pusilla* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nomenclatural synonym: *Achnanthes linearis* var. *pusilla* (Grunow) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 1139):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes linearis* v. *pusilla*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Municipality: Anadia (District: Aveiro)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes linearis* v. *pusilla*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes linearis* v. *pusilla*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Achnanthes linearis* f. *pusilla*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Achada

- Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)
- Municipality: Calheta (São Jorge Island)
 Site: Ribeira do Salto (São Jorge Island)
 Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)
- Municipality: Lajes das Flores (Flores Island)
 Site: Lagoinha, Fajãzinha
 References: Manguin 1942 (as *Achnanthes linearis* (W. Sm.) Grun. var. *pusilla* Grun.); Bourrelly & Manguin 1946a (as *Achnanthes linearis* (W. Sm.) Grun. var. *pusilla* Grun.)
- Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)
- Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)
 Site: Lagoa das Furnas
 Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)
 Site: Ribeira Quente
 Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)
- Municipality: Praia da Vitória (Terceira Island)
 Site: Fonduras
 Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)
- Municipality: Not Specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)
 Site: São Jorge Island
 References: Johansson 1977 (as *Achnanthes linearis* v. *pusilla* Grun.); Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)
 Site: Terceira Island
 Reference: Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

***Scolioneis* D.G. Mann in Round, Crawford & Mann 1990, pg. 676, 528 [CAS ref. 003245]**

***Scolioneis tumida* (Brébisson ex Kützing) D.G. Mann in Round, Crawford & Mann 1990, p. 676 [CAS ref. 003245]**

Basionym: *Navicula tumida* Brébisson in Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 1140):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Navicula tumida* Bréb., fossil)

***Sellaphora* Mereschowsky 1902, p. 186
[CAS ref. 002310]**

***Sellaphora americana* (Ehrenberg) D.G. Mann 1989, p. 2 [CAS ref. 006843]**

Basionym: *Navicula americana* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 1141):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Navicula americana* Ehrenberg)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1910 (as *Navicula americana* Ehr.)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Navicula americana* Ehrenberg)

***Sellaphora bacilliformis* (Grunow in Cleve & Grunow)
Mereschkowsky 1902, p. 190; pl. 4, fig. 17 [CAS ref. 002310]**

Basionym: *Navicula bacilliformis* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1142):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula bacilliformis* Grun.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula bacilliformis* Grun.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Navicula bacilliformis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula bacilliformis* Grun.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula bacilliformis* Grun., fossil)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Navicula bacilliformis* Grun.); Bourrelly & Manguin 1946a (as *Navicula bacilliformis* Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula bacilliformis* Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula bacilliformis* Grunow)

Sellaphora bacillum (Ehrenberg) D.G. Mann 1989, p. 2; fig. 2, 9, 13, 14, 18, 39, 40 [CAS ref. 006843]

Basionym: *Navicula bacillum* Ehrenberg 1839a [CAS ref. 000289]

Distribution (Fig. 1143):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula bacillum*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula bacillum*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula bacillum*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula bacillum* Ehrenberg)

Site: Perrães, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Navicula bacillum*); Almeida 1998 (as *Navicula bacillum* Ehrenberg)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora bacillum* (Ehrenberg) D. G. Mann)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula bacillum*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula bacillum*)

Municipality: Torres Novas (District: Santarém)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula bacillum* Ehr.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Navicula bacillum*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Navicula bacillum*)

Subregion: Alto Alentejo
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Navicula bacillum*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Navicula bacillum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942(as *Navicula bacillum* Ehr.); Bourrelly & Manguin 1946a (as *Navicula bacillum* Ehr.)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Navicula bacillum*)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Sellaphora bacillum* (Ehrenberg) D.G. Mann)
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Sellaphora bacillum* (Ehrenberg) D.G. Mann)
Site: Not Specified
Reference: Gonçalves 2008 (as *Sellaphora bacillum* (Ehrenberg) Mann)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula bacillum* Ehrenberg (*Sellaphora*))

***Sellaphora elliptica* (Hustedt) J.R. Johansen in Johansen et al. 2004, p. 24 [CAS ref. 012667]**

Basionym: *Navicula pupula* var. *elliptica* Hustedt 1911 [CAS ref. 000492]

Distribution (Fig. 1144):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *elliptica* Hustedt)

Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *elliptica* Hustedt)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *elliptica* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Navicula pupula* Kütz. var. *elliptica* Hust.); Bourrelly & Manguin 1946a (as *Navicula pupula* Kütz. v. *elliptica* Hust.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Sellaphora elliptica* Mereschkowsky)
Site: Pico Island
References: Johansson 1977 (as *Navicula pupula* v. *elliptica* Hust.); Gonçalves et al. 2010 (as *Sellaphora elliptica* Mereschkowsky)

***Sellaphora gregoryana* (Cleve & Grunow) Metzeltin & Lange-Bertalot 1998**, p. 204; pl. 81, fig. 10 [CAS ref. 007051]

Basionym: *Navicula bacillum* var. *gregoryana* Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1145):

REGION: NORTE
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Navicula bacillum* Ehr. var. *gregoryana* Grun.)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula bacillum* v. *gregoryana*)

***Sellaphora hustedtii* (Krasske) Lange-Bertalot & Werum in Werum & Lange-Bertalot 2004, p. 173 [CAS ref. 012889]**

Basionym: *Navicula hustedtii* Krasske 1923a [CAS ref. 000579]

Distribution (Fig. 1146):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hustedtii*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hustedtii*)

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula hustedtii* Krasske)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hustedtii*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula hustedtii* Krasske)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hustedtii*)

***Sellaphora joubaudii* (H. Germain) Aboal in Aboal et al. 2003, p. 433 [CAS ref. 012666]**

Basionym: *Navicula joubaudii* H. Germain 1982 [CAS ref. 008256]

Distribution (Fig. 1147):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula joubaudii* Germain)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula joubaudii*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula joubaudii*)

Sellaphora laevissima (Kützing) D.G. Mann 1989, p. 2; fig. 3, 41, 47, 48 [CAS ref. 006843]

Basionym: *Navicula laevissima* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1148):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Navicula laevissima* Kg.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula laevissima* Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula laevissima* Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula laevissima* Kützing)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Navicula laevissima* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula loevissima* Ktz.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula laevissima*)

Municipality: Not Specified

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Sellaphora laevissima* (Kützing) D.G. Mann)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Sellaphora laevissima* (Kützing) D.G. Mann)

***Sellaphora mutatoides* Lange-Bertalot & Metzeltin in Metzeltin & Lange-Bertalot 2002**, p. 64; pl. 31, fig. 23, 24, pl. 34, fig. 13 [CAS ref. 011529]

Distribution (Fig. 1149):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Sellaphora mutatoides* Lange-Bertalot & Metzeltin)

Site: Not Specified

Reference: Gonçalves 2008 (as *Sellaphora mutatoides* Lange-Bertalot & Metzeltin)

***Sellaphora nyassensis* (O. Müller) D.G. Mann 1989**, p. 2 [CAS ref. 006843]

Basionym: *Navicula nyassensis* O. Müller 1910 [CAS ref. 001402]

Distribution (Fig. 1150):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

***Sellaphora pupula* (Kützing) Mereschowsky 1902**, p. 187; pl. 4, fig. 1-5 [CAS ref. 002310]

Basionym: *Navicula pupula* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1151):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula pupula*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula pupula*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Sellaphora pupula* (Kütz.) Mereschkowsky)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula pupula* Kützing); Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Navicula pupula*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Sellaphora pupula*); de Figueiredo et al. 2006 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*); Almeida 1998 (as *Navicula pupula* Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: : Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)

Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kützing)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kützing)

Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula*)

Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula pupula*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula pupula*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula pupula*); Almeida 1998 (as *Navicula pupula* Kützing)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula pupula*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Navicula pupula* Kützing)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula pupula*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula pupula*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula pupula*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula pupula* Kützing)
 Site: Perrães, Cértima River (Vouga Basin)

- References: Rino & Gil 1989 (as *Navicula pupula*); Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 2001 (as *Navicula pupula* Kützing); Almeida 1998 (as *Navicula pupula* Kützing)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Navicula pupula* Kützing)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Site: Diz River
Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Navicula pupula* Kuetz.); Santos & Carvalho 2001 (as *Navicula pupula* Kuetz.)
- Site: Vela
Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Subregion: Beira Interior Sul
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula pupula*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Municipality: Tondela (District: Viseu)

- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula pupula*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Navicula pupula*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula pupula*)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
- Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula pupula*)
- Subregion: Pinhal Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Navicula pupula*)
- Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula pupula*)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
- Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
- Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
- Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified

References: Reference: Calado 1990 (as *Navicula pupula* Kützing); Gil et al. 1991 (as *Navicula pupula*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula pupula*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Navicula pupula*); Oliveira 1987 (as *Navicula pupula* Kz.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Navicula pupula*); Oliveira 1996 (as *Navicula pupula*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Navicula pupula*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Navicula pupula* Kütz.)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Navicula pupula*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula pupula*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Navicula pupula* Kütz.); Fernandes et al. 1987 (as *Navicula pupula*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990a (as *Navicula pupula*)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Navicula pupula*)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Navicula pupula*); Brito & Andrade 1992 (as *Navicula pupula* (?))

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Navicula pupula*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)

Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Navicula pupula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula pupula* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

References: Holmboe 1901 (as *Navicula pupula* Kütz.); Oliveira 1989 (as *Navicula pupula*)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Navicula pupula* Kütz.); Bourrelly & Manguin 1946a (as *Navicula pupula* Kütz.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula pupula*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula pupula*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Navicula pupula*)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing)
Mereschkowsky)
Site: Not Specified
Reference: Gonçalves 2008 (as *Sellaphora pupula* (Kützing)
Mereschkowsky)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Navicula pupula* Kützing (*Sellaphora*))

***Sellaphora rectangularis* (W. Gregory) Lange-Bertalot & Metzeltin 1996**, v. 2: p. 102-103; pl. 25, fig. 10-12, pl. 125, fig. 7 [CAS ref. 007048]

Basionym: *Stauroneis rectangularis* W. Gregory 1854 [CAS ref. 000393]

Nomenclatural synonym: *Navicula pupula* var. *rectangularis* (W. Gregory) Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1152):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
- Site: Viadouros, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
- Site: Perrães, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grun.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Sellaphora rectangularis* (Gregory) Lange-Bertalot & Metzeltin)

***Sellaphora rostrata* (Hustedt) J.R. Johansen in Johansen et al. 2004, p. 25 [CAS ref. 012667]**

Basionym: *Navicula pupula* var. *rostrata* Hustedt 1911 [CAS ref. 000492]

Distribution (Fig. 1153):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Navicula pupula* v. *rostrata*)

***Sellaphora seminulum* (Grunow) D.G. Mann 1989**, p. 2 [CAS ref. 006843]

Basionym: *Navicula seminulum* Grunow 1860 [CAS ref. 000427]

Nomenclatural synonym: *Naviculadicta seminulum* (Grunow) Lange-Bertalot 2000 [CAS ref. 001332]

Distribution (Fig. 1154):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Navicula seminulum* Grun.)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula seminulum* Grunow); Nunes 2007

(as *Sellaphora seminulum* (Grunow) D.G. Mann)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula seminulum* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula seminulum* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*); Almeida 1998 (as *Navicula seminulum* Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula seminulum* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula seminulum* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula seminulum* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula seminulum* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula seminulum*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula seminulum* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula seminulum* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

References: Nunes et al. 2002 (as *Sellaphora seminulum* (Grunow) D.G. Mann); Nunes et al. 2003 (as *Sellaphora seminulum* (Grunow) D.G. Mann); Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann);

- Ferreira da Silva et al. 2009 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula seminulum*); Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula seminulum* Grunow)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula seminulum* Grunow)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Navicula seminulum*); Almeida 1998 (as *Navicula seminulum* Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Navicula seminulum*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Caldeirão
 Reference: Santos & Carvalho 2001 (as *Navicula seminulum* Grun.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Guarda
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Meios
 References: Carvalho 1913 (as *Navicula seminulum* Grun.); Santos & Carvalho 2001 (as *Navicula seminulum* Grun.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula seminulum* Grun.); Santos & Carvalho 2001 (as *Navicula seminulum* Grun.)
 Site: Vela
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Not Specified
 Reference: Zimmermann 1910 (as *Navicula seminulum* Grun.)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula seminulum*)
 Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula seminulum*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Navicula seminulum*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula seminulum* Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula seminulum* Grunow)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Navicula seminulum* Grunow)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula seminulum* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Navicula seminulum*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula seminulum* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Navicula seminulum* Grunow)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Navicula seminulum* Grunow); Gil et al. 1991 (as *Navicula seminulum*); Feio et al. 2007 (as *Sellaphora seminulum*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Navicula seminulum*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Navicula seminulum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Navicula seminulum* Grun.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Navicula seminulum*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula seminulum*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Navicula seminulum*)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow)

Lange-Bertalot)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow)

Lange-Bertalot)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow)

Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow)

Lange-Bertalot)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow)

Lange-Bertalot)

Site: São Jorge Island

References: Johansson 1977 (as *Navicula seminulum* Grun.); Gonçalves

et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow)

Lange-Bertalot)

Site: Not Specified

Reference: Gonçalves 2008 (as *Naviculadicta seminulum* (Grunow)

Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Navicula seminulum* Grunow
(*Sellaphora*))

***Simonsenia* Lange-Bertalot 1979b, p. 131**

[CAS ref. 003239]

***Simonsenia delognei* (Grunow) Lange-Bertalot 1979b**, p. 132; 19
figs. [CAS ref. 003239]

Basionym: *Nitzschia delognei* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Simonsenia delognei* Lange-Bertalot)

***Skeletonema* Greville 1865**, p. 43
[CAS ref. 000892]

***Skeletonema costatum* (Greville) Cleve 1873**, p. 7 'costata' [CAS ref.
001797]

Basionym: *Melosira costata* Greville 1866 [CAS ref. 000984]

Distribution (Fig. 1155):

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Skeletonema costatum*)

Subregion: Not Specified

Municipality: Not Specified

Site: Upper Tagus Estuary (Tagus Basin)

Reference: Brogueira et al. 2007 (as *Skeletonema costatum*)

***Skeletonema subsalsum* (Cleve-Euler) Bethge 1928**, p. 343 [CAS
ref. 002652]

Basionym: *Melosira subsalsa* Cleve-Euler 1912 [CAS ref. 001633]

Distribution (Fig. 1156):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Skeletonema subsalsum*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?)); Brito & Andrade 1992 (as *Skeletonema subsalsum* (?))

Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Skeletonema subsalsum*)

***Skeletonema* sp.**

Distribution (Fig. 1157):

REGION: NORTE
Subregion: Minho-Lima
Municipality: Not Specified
Site: Lima River (Lima Basin)
Reference: Cerqueira da Silva 1990 (as *Skeletonema* sps.)

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Skeletonema* sp.)

REGION: ALENTEJO
Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Skeletonema* sp.)
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Skeletonema* sp.)

***Stauroforma* Flower, V.J. Jones & Round 1996, p. 53
[CAS ref. 008205]**

***Stauroforma exiguiformis* (Lange-Bertalot) Flower, V.J. Jones & Round 1996, p. 53-54; fig. 16-22 [CAS ref. 008205]**

Basionym: *Fragilaria exiguiformis* Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 1158):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Not Specified

References: Gonçalves 2008 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones et Round); Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

***Stauroneis* Ehrenberg 1843b, p. 45**
[CAS ref. 001183]

***Stauroneis acuta* W. Smith 1853, p. 59; pl. 19, fig. 187 [CAS ref. 000863]**

Nomenclatural synonym: *Pleurostaurum acutum* (W. Smith) Rabenhorst 1859 [CAS ref. 002350]

Distribution (Fig. 1159):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Vilarinho

Reference: Zimmermann 1910 (as *Pleurostauron acutum* (W. Sm.) Rabenh.)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Stauroneis acuta* W. Sm.)
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Stauroneis acuta* W. Sm., fossil)

***Stauroneis alpina* Hustedt 1943**, p. 154; fig. 18-19 [CAS ref. 001708]

Distribution (Fig. 1160):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Stauroneis alpina* Hustedt)

***Stauroneis amphicephala* Kützing 1844**, p. 105; pl. 30, fig. 25 [CAS ref. 000595]

Nomenclatural synonyms: *Stauroneis anceps* var. *amphicephala* (Kützing) Van Heurck 1885 [CAS ref. 001040]
Navicula anceps var. *amphicephala* (Kützing) Hustedt 1909b [CAS ref. 000491]

Distribution (Fig. 1161):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Caldeirão
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)
Site: Gonçalo
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)
Site: Guarda
Reference: Zimmermann 1910 (as *Stauroneis anceps* Ehr. var. *amphicephala* V. H.)
Site: Guarda
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)
Site: Mondego River (Mondego Basin)
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Navicula anceps* (Ehr.) var. *amphicephala* Kg.)

***Stauroneis anceps* Ehrenberg 1843a**, p. 306 (18), 422; pl. 2/1, fig. 18
[CAS ref. 000294]

Distribution (Fig. 1162):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Stauroneis anceps*)

Municipality: Not Specified

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Stauroneis anceps*)

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Stauroneis anceps* Eh.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfrazes
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)

Site: Caldeirão
References: Carvalho 1913 (as *Stauroneis anceps* Ehr.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr.)

Site: Cruz da Faia
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)

Site: Cubo
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)

Site: Gonçalo
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)

Site: Guarda
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)

Site: Lameirinhas
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)

Site: Meios
References: Carvalho 1913 (as *Stauroneis anceps* Ehr.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr.)

Site: Mondego River (Mondego Basin)

- References: Carvalho 1913 (as *Stauroneis anceps* Ehr.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
 Site: Vela
 Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Stauroneis anceps*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Stauroneis anceps*); Cerqueira da Silva et al. 1993 (as *Stauroneis anceps*); Cerqueira da Silva 1994 (as *Stauroneis anceps*)
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Stauroneis anceps* Ehrenberg)
 Site: Not Specified

References: Calado 1990 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1991 (as *Stauroneis anceps*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stauroneis anceps*)

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Stauroneis anceps*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Stauroneis anceps*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Stauroneis anceps* Ehrenberg)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Stauroneis anceps* Ehrenberg)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Stauroneis anceps* Ehrenberg)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Stauroneis anceps* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Stauroneis anceps* Ehrenberg var. *anceps* Kramer & Lange-Bertalot)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Stauroneis anceps* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Stauroneis anceps* Ehr.)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Stauroneis anceps* Ehrenberg var. *anceps* Kramer & Lange-Bertalot)

Site: Lagoa do Negro

Reference: Gonçalves 1996 (as *Stauroneis anceps* Ehrenberg var. *anceps* Kramer & Lange-Bertalot)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande
References: Manguin 1942 (as *Stauroneis anceps* Ehr.); Bourrelly & Manguin 1946a (as *Stauroneis anceps* Ehr.)

Municipality: Not Specified

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)

Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)

Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)

Site: Not Specified
Reference: Gonçalves 2008 (as *Stauroneis anceps* Ehrenberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: INAG I.P. 2008 (as *Stauroneis anceps* Ehrenberg)

***Stauroneis anceps f. gracilis* (Ehrenberg) Hustedt 1930**, p. 256
[CAS ref. 000502]

Basionym: *Stauroneis gracilis* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 1163):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)

- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*); Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Stauroneis gracilis* W. Sm.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)

Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)

Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Stauroneis anceps* f. *gracilis*); Almeida & Gil 2001 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Stauroneis anceps* Ehr. var. *gracilis* Ehr., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Stauroneis anceps* Ehr. var. *gracilis* Ehr., fossil)

***Stauroneis anceps* var. *hyalina* Peragallo & Brun in Héribaud 1893, p. 78; pl. 3, fig. 19 [CAS ref. 000481]**

Distribution (Fig. 1164):

REGION: ALENTEJO

Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Stauroneis anceps* var. *hyalina* Brun et Peragallo, fossil)

Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Stauroneis anceps* var. *hyalina* Brun et Peragallo, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)
Site: Pico do Calheta

Reference: Mölder 1947 (as *Stauroneis anceps* Ehr. var. *hyalina* Brun et Peragallo)

***Stauroneis anceps* f. *linearis* (Ehrenberg) Hustedt 1930**, p. 256
[CAS ref. 000502]

Basionym: *Stauroneis linearis* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Stauroneis anceps* var. *linearis* (Ehrenberg) Brun 1880
[CAS ref. 000174]

Distribution (Fig. 1165):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Stauroneis anceps* v. *linearis*)

Subregion: Cova da Beira

Municipality: Fundão (District: Castelo Branco)

Site: Serra da Gardunha

Reference: Zimmermann 1910 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Stauroneis anceps* v. *linearis*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Diz River

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Meios

References: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

***Stauroneis dubia* W. Gregory 1856**, p. 11; pl. 1, fig. 37 [CAS ref. 000397]

Distribution (Fig. 1166):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Stauroneis dubia* Greg.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stauroneis dubia* Gregory)

***Stauroneis gracilior* E. Reichardt 1995**, p. 34; pl. 18, fig. 1-15 [CAS ref. 008704]

Distribution (Fig. 1167):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stauroneis gracilior* (Rabenhorst) Reichardt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Stauroneis gracilior* (Rabenhorst) Reichardt)

***Stauroneis javanica f. lapponica* (Hustedt) Hustedt 1959a**, p. 815; fig. 1160 [CAS ref. 000535]

Basionym: *Stauroneis obtusa* var. *lapponica* Hustedt 1924 [CAS ref. 000497]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Stauroneis javanica* (Grunow) Cleve f. *lapponica* Hustedt 1959)

***Stauroneis kriegeri* R.M. Patrick 1945**, p. 175 [CAS ref. 000723]
New name for *Stauroneis pygmaea* Willi Krieger 1929 non Castracane 1886 [CAS ref. 001735]

Distribution (Fig. 1168):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis kriegeri* Patrick)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Stauroneis kriegeri* Patrick)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Stauroneis kriegeri* Patrick)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Stauroneis kriegeri* Patrick)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Stauroneis kriegeri* Patrick)

***Stauroneis legumen* (Ehrenberg) Kützing 1844**, p. 107; pl. 29, fig. 11 [CAS ref. 000595]

Basionym: *Stauoptera legumen* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 1169):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis legumen* (Ehr.) Kützing)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis legumen* (Ehr.) Kützing)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Stauroneis legumen* (Ehrenberg) Kützing)

Stauroneis parvula C. Janisch 1862, p. 14 [CAS ref. 000540]

Distribution (Fig. 1170):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

References: Silva 1946a (as *Stauroneis parvula* Jan., fossil); Silva 1946b (as *Stauroneis parvula* Jan., fossil)

Stauroneis phoenicenteron (Nitzsch) Ehrenberg 1843a, p. 311 (23); pl. 2/5, fig. 1, pl. 3/2, fig. 3 [CAS ref. 000294]

Basionym: *Bacillaria phoenicenteron* Nitzsch 1817 [CAS ref. 000684]

Distribution (Fig. 1171):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
 Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
 Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*); Almeida 1998 (as
Stauroneis phoenicenteron (Nitzsch) Ehrenberg)
 Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch)
 Ehrenberg)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch)
 Ehrenberg)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
 (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Site: Ois da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch)
 Ehrenberg)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
 Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch)
 Ehrenberg)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Site: São João de Azenha, Cértima River (Vouga Basin)

- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
 Site: Vagueira, Canal de Mira
 Reference: Mendes et al. 2009 (as *Stauroneis phoenicenteron*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Stauroneis phoenicenteron* Ehrenberg)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.); Santos & Carvalho 2001 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Meios
 References: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.); Santos & Carvalho 2001 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.); Santos & Carvalho 2001 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Vela
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
 Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
 Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
 Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)

Municipality: Tondela
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
 Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)

Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Frade 1961 (as *Stauroneis phoenicenteron* (Ehr.))

Subregion: Oeste
 Municipality: Óbidos (District: Leiria)
 Site: Not Specified
 Reference: Silva 1946b (as *Stauroneis phoenicenteron* Ehr., fossil)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Stauroneis phoenicenteron*)
 Site: Not Specified
 References: Calado 1990 (as *Stauroneis phoenicenteron* Ehrenberg); Gil
 et al. 1991 (as *Stauroneis phoenicenteron*)

REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Stauroneis phoenicenteron*)

REGION: ALENTEJO
 Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Stauroneis phoenicenteron*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis phoenicenteron*)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Stauroneis phoenicenteron*)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Stauroneis phoenicenteron* Ehr., fossil)
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Stauroneis phoenicenteron* Ehr., fossil)
Municipality: Santarém (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Stauroneis phoenicenteron*)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis phoenicenteron*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Holmboe 1901 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Stauroneis phoenicenteron* Ehr.); Manguin 1942 (as *Stauroneis phoenicenteron* Ehr.); Bourrelly & Manguin 1946a (as *Stauroneis phoenicenteron* Ehr.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Stauroneis phoenicenteron* Ehr., fossil)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Stauroneis phoenicenteron* Ehr., fossil)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
Site: Not Specified
Reference: Gonçalves 2008 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Schodduyn 1927 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehr.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Stauroneis phoenicenteron* (Nitzsch.) Ehrenberg)

***Stauroneis phoenicenteron* f. *lanceolata* (Kützing) Hustedt 1959a**,
p. 768 [CAS ref. 000535]

Basionym: *Stauroneis lanceolata* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1172):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Stauroneis lanceolata*, fossil)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stauroneis lanceolata* Kützing, fossil)

***Stauroneis polymorpha* Lagerstedt 1873**, p. 39; pl. 1, fig. 12 [CAS
ref. 000597]

Distribution (Fig. 1173):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Stauroneis polymorpha* Lag.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stauroneis polymorpha* Lagerstedt)

***Stauroneis producta* Grunow in Van Heurck 1880**, pl. 4, fig. 12
[CAS ref. 000895]

Distribution (Fig. 1174):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Stauroneis producta* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Stauroneis producta* Grun.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis producta* Grunow)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified
Reference: Gil et al. 1991 (as *Stauroneis producta*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Stauroneis producta* Grunow)

***Stauroneis prominula* (Grunow in Cleve & Möller) Hustedt 1959a**,
p. 805; fig. 1153 [CAS ref. 000535]

Basionym: *Pleurostauron* (*Pleurostaurum*) *prominulum* Grunow in Cleve & Möller
1879 [CAS ref. 001978]

Nomenclatural synonym: *Stauroneis parvula* var. *prominula* (Grunow in Cleve &
Möller) Grunow in Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 1175):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified
Reference: Silva 1946b (as *Stauroneis parvula* var. *prominula* Grun.,
fossil)

***Stauroneis pseudosubobtusoides* H. Germain 1980**, v. 1(1): p. 20; pl.
1, fig. 1-13 [CAS ref. 008253]

Distribution (Fig. 1176):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

***Stauroneis punctata* Kützing 1844**, p. 106; pl. 21, fig. 9 [CAS ref. 000595]

Distribution (Fig. 1177):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Stauroneis punctata*, fossil)

***Stauroneis salina* W. Smith 1853**, p. 60; pl. 19, fig. 188 [CAS ref. 000863]

Distribution (Fig. 1178):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis salina* W. Smith)

Stauroneis smithii Grunow 1860, p. 564; pl. 4, fig. 16, (pl. 6, fig. 16)
[CAS ref. 000427]

Distribution (Fig. 1179):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Stauroneis smithii* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Stauroneis smithii* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Stauroneis smithii*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Stauroneis smithii*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Stauroneis smithii*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Stauroneis smithii*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
 Site: Vagueira, Canal de Mira
 Reference: Resende et al. 2005 (as *Stauroneis smithii*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Stauroneis smithii* Grunow)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Gil et al. 1991 (as *Stauroneis smithii*)

 REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: INAG I.P. 2008 (as *Stauroneis smithii* Grunow)

***Stauroneis smithii* var. *borgei* (Manguin in Allorge & Manguin)
Hustedt 1959a, p. 811; fig. 1157 h-k [CAS ref. 000535]**

Basionym: *Stauroneis borgei* Manguin in Allorge & Manguin 1941 [CAS ref. 001076]

Distribution (Fig. 1180):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)

***Stauroneis smithii* var. *incisa* Pantocsek 1902, p. 28; pl. 2, fig. 45
[CAS ref. 000715]**

Distribution (Fig. 1181):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek);
Gil et al. 1989-1990 (as *Stauroneis smith* v. *incisa*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)
References: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek);
Gil et al. 1989-1990 (as *Stauroneis smith* v. *incisa*)

Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek);
Gil et al. 1989-1990 (as *Stauroneis smith* v. *incisa*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Municipality: Mealhada (District: Aveiro)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

***Stauroneis thermicola* (J.B. Petersen) J.W.G. Lund 1946**, p. 61; fig. 3K-AA [CAS ref. 001751]

Basionym: *Navicula thermicola* J.B. Petersen 1928a [CAS ref. 000742]

Distribution (Fig. 1182):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Stauroneis thermicola* (Petersen) Lund)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Stauroneis thermicola* (Petersen) Lund)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Stauroneis thermicola* (Petersen) Lund)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

References: Gonçalves 2008 (as *Stauroneis thermicola* (Petersen) Lund);

Gonçalves et al. 2010 (as *Stauroneis thermicola* (Petersen) Lund, fossil)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Stauroneis thermicola* (Petersen) Lund)

***Stauroneis* sp.**

Distribution (Fig. 1183):

REGION: NORTE

Subregion: Cávado
Municipality: Barcelos (District: Braga)
Site: Manhente, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Stauroneis* sp.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Stauroneis* sp.)

Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Stauroneis* sp.)
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Stauroneis* sp.)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Stauroneis* sp.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)

Subregion: Oeste
Municipality: Alenquer (District: Lisboa)
Site: Alenquer, Alenquer River (Tagus Basin)
Reference: Frade 1941a (as *Stauroneis* sp.)
Site: Alenquer, Alenquer Reservoir
Reference: Frade 1941b (as *Stauroneis* sp.)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
Reference: Oliveira & Monteiro 1995 (as *Stauroneis* sp.); Oliveira 1996
(as *Stauroneis* sp.)

Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Stauroneis* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Stauroneis* sp.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Stauroneis* species)

***Staurosira* Ehrenberg 1843b, p. 45**
[CAS ref. 001183]

***Staurosira construens* Ehrenberg 1843a, p. 424 (136) [CAS ref. 000294]**

Nomenclatural synonym: *Fragilaria construens* (Ehrenberg) Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 1184):

REGION: NORTE
Subregion: Cávado
Municipality: Terras de Bouro (District: Braga)
Site: Bouro Reservoir, Homem River (Cávado Basin)
Reference: Nauwerck 1962 (as *Fragilaria construens* (E.) Grun.)
Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Staurosira construens* Ehrenberg)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Fragilaria construens* (Ehnr.) Grun.)
Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
References: Abrantes et al. 2006 (as *Fragilaria construens*); de Figueiredo et al. 2006 (as *Fragilaria construens* (Ehrenberg) Grunow)
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Fragilaria construens*)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria construens*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Staurosira construens* Ehrenberg)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria construens*)
Site: Mogofores, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Fragilaria construens*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria construens*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria construens*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Fragilaria construens*); Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria construens*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Fragilaria construens* (Ehr.) Grun.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)

- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Fragilaria construens*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Fragilaria construens*)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria construens* (Ehr.) Grunow)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Fragilaria construens* (Ehrenberg) Grunow); Gil et al. 1991 (as *Fragilaria construens*)
- REGION: ALENTEJO
- Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: Pêgo do Altar Reservoir (ancient Salazar Reservoir), Alcáçovas Stream (Sado Basin)
 Reference: Nauwerck 1962 (as *Fragilaria construens* (E.) Grun.)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)
 Reference: Nauwerck 1962 (as *Fragilaria construens* (E.) Grun.)
- Subregion: Alto Alentejo
 Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Fragilaria construens*)
- Subregion: Lezíria do Tejo
 Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Fragilaria construens* (Ehr.) Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Fragilaria construens*)

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Fragilaria construens*, fossil)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Fragilaria construens* (Ehr.) Grun.);

Bourrelly & Manguin 1946a (as *Fragilaria construens* (Ehr.) Grun.)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg, fossil)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg, fossil)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg, fossil)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg, fossil)

Site: Not Specified

Reference: Gonçalves 2008 (as *Staurosira construens* Ehrenberg)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Tagus River (Tagus Basin)

Reference: Sabater et al. 2009 (as *Fragilaria construens*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria construens* (Ehr.) Grunow f. *construens* (*Staurosira*))

***Staurosira construens* var. *binodis* (Ehrenberg) Hamilton in Hamilton, Poulin, Charles & Angell 1992, p. 29 [CAS ref. 003248]**

Basionym: *Fragilaria binodis* Ehrenberg [CAS ref. 000294]

Nomenclatural synonym: *Fragilaria construens* f. *binodis* (Ehrenberg) Hustedt 1957 [CAS ref. 000532]

Distribution (Fig. 1185):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow f. *binodis* (Ehrenberg) Hustedt)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow f. *binodis* (Ehrenberg) Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Staurosira construens* var. *binodis* (Ehrenberg) Hamilton)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria construens* f. *binodis* (Ehr.) Hustedt)

***Staurosira construens* var. *exigua* (W. Smith) H. Kobayasi in Mayama et al. 2002, p. 90 [CAS ref. 012558]**

Basionym: *Triceratium exiguum* W. Smith 1856 [CAS ref. 001007]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Staurosira construens* var. *exigua* (W. Smith) Kobayasi)

***Staurosira construens* var. *pumila* (Grunow) J.C. Kingston 2000, p. 409 [CAS ref. 009393]**

Basionym: *Fragilaria construens* var. *pumila* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria construens* (Ehr.) Grunow var. *pumila* Grunow)

***Staurosira elliptica* (Schumann) Williams & Round 1987**, p. 272;
fig. 19, 20 [CAS ref. 003171]

Basionym: *Fragilaria elliptica* Schumann 1867a [CAS ref. 001004]

Distribution (Fig. 1186):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira elliptica* (Schumann) Edlund, Morales & Spaulding)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria elliptica* Schumann (*Staurosira*))

***Staurosira pinnata* Ehrenberg 1843**, p. 424 (136) [CAS ref. 000294]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Staurosira pinnata* Ehrenberg)

***Staurosira venter* (Ehrenberg) H. Kobayasi in Mayama, Idei, Osada & Nagumo 2002**, p. 90 [CAS ref. 012558]

Basionym: *Fragilaria venter* Ehrenberg 1854a [CAS ref. 000966]

Nomenclatural synonym: *Fragilaria construens* var. *venter* (Ehrenberg) Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 1187):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Site: Meios

References: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.); Santos & Carvalho 2001 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Subregion: Dão-Lafões

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Fragilaria construens venter*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Fragilaria construens venter*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Fragilaria construens* var. *venter* (Ehrenberg) Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow); Bourrelly & Manguin 1946a (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
Reference: Manguin 1942 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)
Site: Ribeira Grande
References: Manguin 1942 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow); Bourrelly & Manguin 1946a (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Staurosira venter* (Ehrenberg) Cleve & Moeller)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Staurosira venter* (Ehrenberg) Cleve & Moeller)
Site: Not Specified
Reference: Gonçalves 2008 (as *Staurosira* aff. *venter* (Ehrenberg) Cleve & Moeller)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria construens* (Ehr.) Grunow f. *venter* (Ehr.) Hustedt)

***Staurosira* sp.**

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Staurosira* sp.1 and *Staurosira* sp.2)

***Staurosirella* D.M. Williams & Round 1988**, p. 274
[CAS ref. 003205]

***Staurosirella leptostauron* (Ehrenberg) Williams & Round 1987**, p. 276; fig. 22, 23 [CAS ref. 003171]

Basionym: *Biblarium leptostauron* Ehrenberg 1854a [CAS ref. 000966]

Nomenclatural synonym: *Fragilaria leptostauron* (Ehrenberg) Hustedt 1931 [CAS ref. 000505]

Distribution (Fig. 1188):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria leptostauron* (Ehrenberg) Hustedt)

Subregion: Baixo Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria leptostauron* (Ehrenberg) Hustedt var. *leptostauron*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not Specified

Reference: Johansson 1977 (as *Fragilaria leptostauron* (Ehr.) Hust.)

Municipality: Not Specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Staurosirella leptostauron* (Ehrenberg) D.M. Williams & Round)

***Staurosirella martyi* (Héribaud) E. Morales & Manoylov 2006**, p. 354 [CAS ref. 012808]

Basionym: *Opephora martyi* Héribaud 1902 [CAS ref. 000991]

Nomenclatural synonym: *Fragilaria leptostauron* var. *martyi* (Héribaud) Lange-Bertalot in Krammer & Lange-Bertalot 1991a [CAS ref. 006521]

Distribution (Fig. 1189):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Fragilaria leptostauron* (Ehrenberg)

Hustedt var. *martyi* (Héribaud) Lange-Bertalot)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Opephora martyi* Héribaud)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Opephora martyi* Héribaud)

Municipality: Not Specified

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Staurosira martyi* (Héribaud) Lange-Bertalot)

***Staurosirella oldenburgiana* (Hustedt) E. Morales 2005, p. 118
[CAS ref. 012984]**

Basionym: *Fragilaria oldenburgiana* Hustedt 1959d [CAS ref. 000534]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria oldenburgiana* Hustedt)

***Staurosirella pinnata* (Ehrenberg) D.M. Williams & Round 1987,
p. 274 [CAS ref. 003171]**

Basionym: *Fragilaria pinnata* Ehrenberg 1843a [CAS ref. 000294]

Distribution (Fig. 1190):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)
References: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round); Ferreira da Silva et al. 2009 (as *Fragilaria pinnata* Ehrenberg var. *pinnata* (*Staurosirella*))

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Fragilaria pinnata* Ehrenberg); Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria pinnata* Ehrenberg)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Fragilaria pinata*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Fragilaria pinnata*); Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Fragilaria pinnata* Ehrenberg)
- Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Fragilaria pinnata*)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified

Reference: Calado 1990 (*Fragilaria pinnata* Ehrenberg)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Fragilaria pinnata* Ehrenberg)

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Fragilaria pinnata* E.)

Subregion: Baixo Alentejo

Municipality: Mértola (District: Beja)

Site: Reservoir in the abandoned São Domingos mine

Reference: Gerhardt et al. 2008 (as *Fragilaria pinnata* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Site: Lagoa Grande

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Site: Lagoa das Sete Cidades

References: Mölder 1947 (as *Fragilaria pinnata* Ehr.); Oliveira 1989 (as *Fragilaria pinata*)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Fragilaria pinnata* Ehrenberg); Bourrelly & Manguin 1946a (as *Fragilaria pinnata* Ehrenberg); Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Site: Ribeira Quente

References: Manguin 1942 (as *Fragilaria pinnata* Ehrenberg); Bourrelly & Manguin 1946a (as *Fragilaria pinnata* Ehrenberg)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Negro

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Fragilaria pinnata* Ehrenberg); Bourrelly
& Manguin 1946a (as *Fragilaria pinnata* Ehrenberg)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg)
Williams & Round)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg)
Williams & Round)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg)
Williams & Round)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg)
Williams & Round)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg)
Williams & Round)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg)
Williams & Round)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg)
Williams & Round)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria pinnata* Ehrenberg var. *pinnata*
(*Staurosirella*))

***Stenopterobia* Brébisson ex Van Heurck 1896, p. 374**
[CAS ref. 000897]

***Stenopterobia curvula* (W. Smith) Krammer in Lange-Bertalot & Krammer 1987**, p. 108; pl. 58, fig. 1-4 [CAS ref. 006173]

Basionym: *Nitzschia curvula* W. Smith 1856 [CAS ref. 001007]

Synonym: *Stenopterobia intermedia* (F.W. Lewis) Van Heurck 1896 [CAS ref. 000897], according to Krammer & Lange-Bertalot 1988, p. 209

Distribution (Fig. 1191):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stenopterobia curvula* (W. Smith) Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Stenopterobia curvula* (W. Smith) Krammer)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Stenopterobia curvula* (W. Smith) Krammer)

***Stenopterobia delicatissima* (F.W. Lewis) Van Heurck 1896**, p. 374 [CAS ref. 000897]

Basionym: *Surirella delicatissima* F.W. Lewis 1864 [CAS ref. 000610]

Distribution (Fig. 1192):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stenopterobia delicatissima* (Lewis) Brébisson)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Almeida & Gil 2001 (as *Stenopterobia delicatissima* (Lewis) Brébisson ex Van Heurck)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stenopterobia delicatissima* (F.W. Lewis) Brébisson ex Van Heurck)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Stenopterobia delicatissima* (Lewis) Brébisson ex Van Heurck)

***Stenopterobia intermedia* (F.W. Lewis) Van Heurck 1896, p. 374
[CAS ref. 000897]**

Basionym: *Surirella intermedia* F.W. Lewis 1864 [CAS ref. 000610]

Synonym: *Stenopterobia curvula* (W. Smith) Krammer in Lange-Bertalot & Krammer 1987 [CAS ref. 006173], according to Krammer & Lange-Bertalot 1988, p. 209

Distribution (Fig. 1193):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Stenopterobia intermedia* Lewis)

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Stenopterobia intermedia* Lewis)

***Stenopterobia sigmatella* (W. Gregory) Ross in Hartley, Ross & Williams 1986**, p. 610 [CAS ref. 002355]

Basionym: *Nitzschia sigmatella* W. Gregory 1855 [CAS ref. 000396]

Distribution (Fig. 1194):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Dyer 1875 (as *Nitzschia sigmatella* Greg.); Holmboe 1901 (as *Nitzschia sigmatella* Greg.)

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia sigmatella* Gregory)

Stephanodiscus Ehrenberg 1845d, p. 72
[CAS ref. 000955]

***Stephanodiscus alpinus* Hustedt 1942d**, p. 412; fig. 508 [CAS ref. 002054]

Distribution (Fig. 1195):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stephanodiscus alpinus* Hustedt)
Site: Not Specified
Reference: Gonçalves 2008 (as *Stephanodiscus alpinus* Hustedt)

***Stephanodiscus astraea* (Ehrenberg) Grunow in Cleve & Grunow
1880, p. 114 [CAS ref. 000241]**

Basionym: *Discoplea astraea* Ehrenberg 1844c [CAS ref. 001185]

Distribution (Fig. 1196):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Mogadouro (District: Bragança)

Site: Bemposta Reservoir, Douro River (Douro Basin)

Reference: Galhano et al. 1991 (as *Stephanodiscus astraea*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Stephanodiscus astraea* (Ehrenb.) Grun.)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Frade 1961 (as *Stephanodiscus astraea* (Ehr.))

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Calado 1990 (as *Stephanodiscus astraea* (Ehrenberg) Grunow)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Stephanodiscus astraea* (E.) Grun.)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Stephanodiscus astrea* (E.) Grun.)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Stephanodiscus astraea* Grün., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Stephanodiscus astraea* Grun., fossil)
Site: Not Specified
Reference: Silva 1946b (as *Stephanodiscus astraea* (Ehr.) Grun., fossil)

***Stephanodiscus hantzschii* Grunow in Cleve & Grunow 1880, p. 115; pl. 7, fig. 131 [CAS ref. 000241]**

Synonym: *Stephanodiscus hantzschii* var. *pusilla* (*pusillus*) Grunow in Cleve & Grunow 1880 [CAS ref. 000241], according to Krammer & Lange-Bertalot 1991a, p. 73

Distribution (Fig. 1197):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Stephanodiscus hantzschii*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Stephanodiscus hantzschii* Grun.)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* Grun.)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Stephanodiscus hantzschii* Grunow)

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: Fratel, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Stephanodiscus hantzschii*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Stephanodiscus hantzschii*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Stephanodiscus hantzschii*)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Stephanodiscus hantzschii*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Lagoa de Albufeira

Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* Grun.)

Municipality: Setúbal (District: Setúbal)

Site: Sado River (Sado Basin)

Reference: Zimmermann 1909b (as *Stephanodiscus hantzschii* Grun.)

Subregion: Not Specified

Municipality: Not Specified

Site: Upper Tagus Estuary (Tagus Basin)

Reference: Brogueira et al. 2007 (as *Stephanodiscus hantzschii*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*); Oliveira 1984b (as *Stephanodiscus hantzschii*); Andrade & Brito 1995 (as *Stephanodiscus hantzschii*)

Subregion: Alentejo Litoral

Site: Sado Estuary (Sado Basin)

Reference: Oliveira & Coutinho 1992 (as *Stephanodiscus hantzschii*)

Site: Sado River (Sado Basin)

Reference: Monteiro et al. 1995 (as *Stephanodiscus hantzschii*)

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Stephanodiscus hantzschii* Grunow)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Stephanodiscus hantzschii*)

Municipality: Castelo de Vide (District: Portalegre)

Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Stephanodiscus hantzschii* Grun.); Fernandes et al. 1987 (as *Stephanodiscus hantzschii*)

Municipality: Nisa (District: Portalegre)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Stephanodiscus hantzschii* Grun.)
 Site: Poio Reservoir, Nisa Stream (Tagus Basin)
 Reference: Nauwerck 1962 (*Stephanodiscus hantzschii* Grunow)

Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Stephanodiscus hantzschii*)
 Municipality: Ferreira do Alentejo (District: Beja)
 Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)

Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Stephanodiscus hantzschii*)
 Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* Grun.);
 Oliveira 1984a (as *Stephanodiscus hantzschii*)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Stephanodiscus hantzschii*)

Subregion: Not Specified
 Municipality: Not Specified
 Site: Guadiana River (Guadiana Basin)
 Reference: Oliveira 1991 (as *Stephanodiscus hantzschii*)
 Site: Rocha da Galé, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Stephanodiscus hantzschii*)

REGION: ALGARVE
 Subregion: Algarve
 Municipality: Lagos (District: Faro)
 Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)
 Municipality: Silves (District: Faro)
 Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)

REGION: Not Specified
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified

Reference: INAG I.P. 2008 (as *Stephanodiscus hantzschii* Grunow in Cl. & Grun. 1880)

***Stephanodiscus hantzschii* var. *pusilla* (*pusillus*) Grunow in Cleve & Grunow 1880**, p. 115; pl. 7, fig. 132 [CAS ref. 000241]

Synonym: *Stephanodiscus hantzschii* Grunow in Cleve & Grunow 1880 [CAS ref. 000241], according to Krammer & Lange-Bertalot 1991a, p. 73

Distribution (Fig. 1198):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Stephanodiscus hantzschii* v. *pusillus* Grunow)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Stephanodiscus hantzschii* v. *pusillus* Grunow)

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* v. *pusillus* Grunow)

***Stephanodiscus hantzschii* f. *tenuis* (Hustedt) Håkansson & Stoermer 1984**, p. 486; fig. 4-6, 8, 12-14 [CAS ref. 002388]

Basionym: *Stephanodiscus tenuis* Hustedt 1939 [CAS ref. 000514]

Distribution (Fig. 1199):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Stephanodiscus hantzschii* fo. *tenuis* (Hustedt) Håkansson & Stoermer)

***Stephanodiscus medius* Håkansson 1986**, p. 32; fig. 11-14 [CAS ref. 009617]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Stephanodiscus medius* Håkansson)

***Stephanodiscus minutulus* (Kützing) Cleve & Möller 1882**, No. 300 [CAS ref. 001979]

Basionym: *Cyclotella minutula* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1200):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stephanodiscus minutulus* (Kützing) Cleve & Möller)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Stephanodiscus minutulus* (Kützing) Cleve & Möller)

***Stephanodiscus parvus* Stoermer & Håkansson 1984**, p. 505; 11 figs. [CAS ref. 005581]

Distribution (Fig. 1201):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Stephanodiscus parvus* Stoermer & Håkansson)

Subregion: Pinhal Interior Norte

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Stephanodiscus parvus* Stoermer & Hakansson)

***Stephanodiscus rotula* (Kützing) Hendey 1964**, p. 75 [CAS ref. 000480]

Basionym: *Cyclotella rotula* Kützing 1844 [CAS ref. 000595]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Stephanodiscus rotula* (Kützing) Hendey)

***Stephanodiscus tenuis* Hustedt 1939**, p. 583; fig. 3 [CAS ref. 000514]

Distribution (Fig. 1202):

REGION: NORTE

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Stephanodiscus tenuis*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)

- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Stephanodiscus tenuis* (Ehrenberg) Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Stephanodiscus tenuis* Hustedt)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
- Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
- Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Stephanodiscus tenuis* (Ehrenberg) Grunow); Gil et al. 1991 (as *Stephanodiscus tenuis*)
- REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Stephanodiscus tenuis*)

***Stephanodiscus* sp.**

Distribution (Fig. 1203):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Not Specified

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Stephanodiscus* sp.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Stephanodiscus* sp.); Cerqueira da Silva et al. 1993 (as *Stephanodiscus* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Stephanodiscus* sp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves 2008 (as *Stephanodiscus* sp.)

***Striatella* C. Agardh 1832, p. 60**
[CAS ref. 000940]

***Striatella interrupta* (Ehrenberg) Heiberg 1863, p. 73; pl. 5, fig. 15**
[CAS ref. 000471]

Basionym: *Tessella interrupta* Ehrenberg 1838 [CAS ref. 000288]

Distribution (Fig. 1204):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Striatella interrupta* (Ehr.) Heib., fossil)

***Striatella unipunctata* (Lyngbye) C. Agardh 1832, p. 61 [CAS ref. 000940]**

Basionym: *Fragilaria unipunctata* Lyngbye 1819 [CAS ref. 000620]

Distribution (Fig. 1205):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not Specified

Reference: Silva 1946b (as *Striatella unipunctata* (Lyngb.) Ag., fossil)

***Surirella Turpin 1828*, p. 362, 363
[CAS ref. 000893]**

Surirella aculeata Hustedt in Schmidt 1924b, pl. 354, fig. 9, pl. 355, fig. 1 [CAS ref. 012509]

Distribution (Fig. 1206):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Surirella angusta Kützing 1844, p. 61; pl. 30, fig. 52 [CAS ref. 000595]

Nomenclatural synonym: *Surirella ovalis* var. *angusta* (Kützing) Van Heurck 1885
[CAS ref. 001040]

Distribution (Fig. 1207):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella angusta* Kützing)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Surirella angusta* Kützing)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella angusta* Kützing)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella angusta* Kützing)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Surirella angusta* Kützing)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: Abrantes et al. 2006 (as *Surirella angusta*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella angusta* Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella angusta* Kützing)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella angusta* Kützing)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Surirella angusta* Kützing)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella angusta* Kützing)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella angusta* Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

- Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Vila Verde, Levira River (Vouga Basin)
 References: Almeida 1998 (as *Surirella angusta* Kützing); Almeida 2001
 (as *Surirella angusta* Kützing)
- Subregion: Dão-Lafões
 Municipality: Tondela (District: Viseu)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Surirella angusta* Kützing)
- Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Santa Cruz
 Reference: Zimmermann 1914 (as *Surirella ovalis* Bréb. var. *angusta*
 (Kuetz.) V.H.)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Bussaco
 Reference: Zimmermann 1906 (as *Surirella ovalis* Bréb. var. *angusta*
 (Kuetz.) V.H.)
- REGION: ALENTEJO
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Surirella angusta* Kützing)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Surirella angusta* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
Reference: Holmboe 1901 (as *Surirella angusta* Kütz.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
Site: Not Specified
Reference: Gonçalves 2008 (as *Surirella angusta* Kützing)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Surirella angusta* Kützing)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella angusta* Kützing)

***Surirella angustata* Hustedt 1930**, p. 435; fig. 844-845 [CAS ref. 000502]

Distribution (Fig. 1208):

REGION: NORTE
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Surirella angustata* Kütz.)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
Site: Bolfiar, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Surirella angustata* Koetzing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella angustata*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella angustata*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Surirella angustata*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Surirella angustata* Kützing); Gil et al. 1991 (as *Surirella angustata*)

REGION: ALENTEJO

Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella angustata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Surirella angustata* Kütz.); Bourrelly & Manguin 1946a (as *Surirella angustata* Kütz.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Surirella angustata* Kütz.); Bourrelly & Manguin 1946a (as *Surirella angustata* Kütz.)
Municipality: Not Specified
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Surirella angustata* Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella angustata* Kützing)

***Surirella apiculata* W. Smith 1856**, p. 88 [CAS ref. 001007]

Distribution (Fig. 1209):

Synonyms: *Surirella minuta* Brébisson 1838 [CAS ref. 000161], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella salina W. Smith 1851 [CAS ref. 001528], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella pinnata W. Smith 1853 [CAS ref. 000863], according to Krammer & Lange-Bertalot 1988, p. 186

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfazazes

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Caldeirão

References: Carvalho 1913 (as *Surirella apiculata* W. Sm.); Santos & Carvalho 2001 (as *Surirella apiculata* W. Sm.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Cubo

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Diz River

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Surirella apiculata* W. Sm.); Santos & Carvalho 2001 (as *Surirella apiculata* W. Sm.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Vela

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella apiculata* W. Sm.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Pomar de Ambrosio, Campanário

Reference: Zimmermann 1909a (as *Surirella apiculata* W. Sm.)

Site: Sítio da Chamorra, Campanário

Reference: Zimmermann 1909a (as *Surirella apiculata* W. Sm.)

***Surirella biseriata* Brébisson in Brébisson & Godey 1835**, p. 53; pl. 7 [CAS ref. 000160]

Synonym: *Surirella celtica* H. Germain 1981 [CAS ref. 009183], according to Krammer & Lange-Bertalot 1988, p. 195

Distribution (Fig. 1210):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Minho River (Minho Basin)

Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)

Subregion: Cávado

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella biseriata*)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella biseriata* Bréb.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella biseriata*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella biseriata*)

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Surirella biseriata* Bréb.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Municipality: Anadia (District: Aveiro)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella biseriata*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella biseriata* Brébisson)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella biseriata* Brébisson)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Surirella biseriata*); Almeida 1998 (as *Surirella biseriata* Brébisson)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella biseriata*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella biseriata* Brébisson)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Surirella biseriata* Brébisson)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb.)
- Site: Diz River
Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb.)
- Site: Nueme

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb.)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel
Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)
Site: Torre, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Surirella biseriata*)
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Surirella biseriata*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Surirella biseriata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Not Specified
Reference: Gonçalves et al. 2010 (as *Surirella biseriata* Brébisson in Brébisson & Godey, fossil)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Surirella biseriata* Brébisson in Brébisson & Godey)

***Surirella biseriata* f. *amphioxys* (W. Smith) Hustedt 1911**, p. 305 (as *Surirella* (*Suriraya*) *biseriata* var. *bifrons* f. *amphioxys*) [CAS ref. 000492]

Basionym: *Surirella* (*Suriraya*) *amphioxys* W. Smith 1856 [CAS ref. 001528]

Synonym: *Surirella moelleriana* Grunow in Schmidt 1875c [CAS ref. 012446], according to Krammer & Lange-Bertalot 1988, p. 189

Distribution (Fig. 1211):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Surirella amphioxys* W. Sm.)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella amphioxys* W. Sm.)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella amphioxys* W. Sm.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Cascais (District: Lisboa)

Site: Estoril

References: Lange-Bertalot & Krammer 1987 (as *Surirella amphioxys* W. Smith); Krammer & Lange-Bertalot 1988 (as *Surirella amphioxys* W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Surirella amphioxys* W. Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella amphioxys* W. Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Surirella amphioxys* W. Smith)

***Surirella biseriata* var. *bifrons* (Ehrenberg) Hustedt 1911, p. 305**
[CAS ref. 000492]

Basionym: *Navicula bifrons* Ehrenberg 1835 [CAS ref. 000284]

Distribution:

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

References: González-Guerrero 1950a (as *Surirella biseriata* Bréb. var. *bifrons* (Ehr.) Hust.); Silva 1950a (as *Surirella biseriata* Bréb. var. *bifrons* (Ehr.) Hust.)

***Surirella biseriata* var. *minor* Brébisson ex W. Smith Collection,**
Van Heurck Herbarium, Antwerp, Belgium [CAS ref. -]

Distribution (Fig. 1212):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Cubo

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Diz River

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Meios

References: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*); Santos & Carvalho 2001 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*); Santos & Carvalho 2001 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Vela

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

***Surirella biseriata* var. *turgida* (W. Smith) Cleve-Euler 1952**, p. 106; fig. 1528 K [CAS ref. 001044]

Basionym: *Navicula bifrons* Ehrenberg 1835 [CAS ref. 000863]

Distribution (Fig. 1213):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Surirella turgida* W. Sm., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Surirella turgida* W. Sm., fossil)

Site: Not Specified

Reference: Silva 1946b (as *Surirella turgida* W. Sm., fossil)

***Surirella brebissonii* Krammer & Lange-Bertalot 1987**, p. 82, 85; fig. 1(ov2), 4, 5, 9, 21-33 [CAS ref. 008972]

Distribution (Fig. 1214):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Surirella brebissonii* Krammer & Lange-Bertalot)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Vagueira, Canal de Mira

Reference: Mendes et al. 2009 (as *Navicula radiosa*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Not Specified

Reference: Krammer & Lange-Bertalot 1988 (as *Surirella brebissonii* Krammer & Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Surirella brebissonii* Krammer & Lange-Bertalot)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella brebissonii* Krammer & Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Surirella brebissonii* Krammer & Lange-Bertalot var. *brebissonii*)

***Surirella brebissonii* var. *kuetzingii* Krammer & Lange-Bertalot 1987, p. 85; fig. 52-68 [CAS ref. 008972]**

Distribution (Fig. 1215):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella brebissonii* var. *kuetzingii* Krammer et Lange-Bertalot)

***Surirella capronii* Brébisson & Kitton 1869**, p. 61; fig. 43, 44 [CAS ref. 001107]

Distribution (Fig. 1216):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Surirella capronii* Brébisson)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Surirella capronii* A. S. , fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Surirella capronii* A. S. , fossil)
Site: Not Specified
Reference: Silva 1946b (as *Surirella capronii* Bréb., fossil)

Surirella celtica **H. Germain 1981**, p. 386, 388; pl. 150, fig. 1, 2, pl. 162, fig. 1, 2 [CAS ref. 009183]

Synonym: *Surirella (Suriraya) biseriata* Brébisson in Brébisson & Godey 1835 [CAS ref. 000160], according to Krammer & Lange-Bertalot 1988, p. 195

Distribution (Fig. 1217):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella celtica* Germain); Gil et al. 1989-1990 (as *Surirella celtica*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Surirella celtica* Germain); Gil et al. 1989-1990 (as *Surirella celtica*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Surirella celtica* Germain); Gil et al. 1989-1990 (as *Surirella celtica*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella celtica* Germain)

Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Surirella celtica*)

***Surirella constricta* W. Smith 1851**, p. 9 [CAS ref. 001528]

Distribution:

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella constricta* W. Smith)

***Surirella crumena* Brébisson ex Kützing 1849**, p. 38 [CAS ref. 000596]

Nomenclatural synonym: *Surirella ovalis* var. *crumena* (Brébisson ex Kützing) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1218):

REGION: CENTRO
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Barro
Reference: Zimmermann 1910 (as *Surirella ovalis* Bréb. var. *crumena* (Bréb.) V. H.)

Surirella delicatissima f. tenuissima Manguin 1942, p. 156; pl. 4, fig. 85 [CAS ref. 000623]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Surirella delicatissima* Lewis fo. *tenuissima* Manguin); Bourrelly & Manguin 1946a (as *Surirella delicatissima* Lewis fo. *tenuissima* Manguin)

Surirella elegans Ehrenberg 1843a, p. 424 (136); pl. 3/1, fig. 22 [CAS ref. 000294]

Distribution (Fig. 1219):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella elegans* Ehr.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella elegans*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella elegans*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella elegans*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)
Municipality: Aveiro (District: Aveiro)
Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Surirella elegans*)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Surirella elegans* Ehr.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Surirella elegans*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Surirella elegans*)

***Surirella helvetica* Brun 1880**, p. 100; pl. 2, fig. 4, pl. 9, fig. 28 [CAS ref. 000174]

Nomenclatural synonym: *Surirella linearis* var. *helvetica* (Brun) F. Meister 1912 [CAS ref. 000642]

Distribution (Fig. 1220):

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Surirella linearis* var. *helvetica* (Brun) Meister)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Site: Águeda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Bolfiar, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Raivo, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Redonda, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: São João do Monte, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Site: Varzielas, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brün.) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Surirella linearis* v. *helvetica*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella linearis* W.M. Smith var. *helvetica* (Brun.) Meister)

***Surirella linearis* W. Smith 1853**, p. 31; pl. 8, fig. 58 [CAS ref. 000863]

Distribution (Fig. 1221):

REGION: NORTE
Subregion: Cávado
Municipality: Barcelos (District: Braga)
Site: Barcelos, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)
Site: Manhente, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)
Municipality: Braga (District: Braga)
Site: Padim da Graça, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)
Municipality: Esposende (District: Braga)
Site: Marachão, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)
Municipality: Terras de Bouro (District: Braga)
Site: Borrageira (Serra do Gerês)
Reference: González-Guerrero 1949 (as *Surirella linearis* W. Smith)
Municipality: Not Specified

- Site: Entrepontes, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)
- Site: Homem River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)
- Subregion: Entre Douro e Vouga
- Municipality: Arouca (District: Aveiro)
 Site: Serra da Freita, Arões, Caima River (Vouga Basin)
 References: Nunes et al. 2003 (as *Surirella linearis* W.M.Smith); Nunes 2007 (as *Surirella linearis* W.M.Smith)
- Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Surirella linearis* W. Smith)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Subregion: Grande Porto
- Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Surirella linearis*)
- Subregion: Minho-Lima
- Municipality: Caminha (District: Viana do Castelo)
 Site: Gondar Stream (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Site: Sains, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Site: Tourim, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: Alhada, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
 Site: Barragem de Covas, Coura River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Surirella linearis*)
- Municipality: Not Specified
 Site: Altar de Cabrões (Serra do Gerês)
 Reference: González-Guerrero 1949 (as *Surirella linearis* W. Smith)
- Site: Malhadoiro (Serra do Gerês)
 Reference: González-Guerrero 1950a (as *Surirella linearis* W. Smith)
- Site: Minho River (Minho Basin)
 Reference: Cerqueira da Silva & Cunha 1992 (as *Surirella linearis*)
- Site: Neiva River (Neiva Basin)
 Reference: Cerqueira da Silva & Cunha 1992 (as *Surirella linearis*)

Subregion: Not Specified
Municipality: Not Specified
Site: Ave River (Ave Basin)
Reference: Cerqueira da Silva 1991 (as *Surirella linearis*)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*); Almeida 1998 (as *Surirella linearis* W. Smith)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Redonda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Surirella linearis* W.M.Smith)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
 Site: Santo António, Valmaior, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Surirella linearis* W.M.Smith)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Surirella linearis* W.M.Smith)

- Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Surirella linearis* W. Smith)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Surirella linearis* W. Sm.); Santos & Carvalho 2001 (as *Surirella linearis* W. Sm.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
 Site: Vela
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Surirella linearis*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella linearis* W. Smith)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella linearis*)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not Specified

Reference: Silva 1946b (as *Surirella linearis* W. Sm., fossil)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)

Subregion: Not Specified

Municipality: Not Specified

Site: Bussaco

Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm.)

Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Surirella linearis*); Cerqueira da Silva et al. 1993 (as *Surirella linearis*); Cerqueira da Silva 1994 (as *Surirella linearis*)

Site: Vouga River (Vouga Basin)

Reference: Ferreira et al. 2002 (as *Surirella linearis*)

Site: Not Specified

References: Calado 1990 (as *Surirella linearis* W. Smith); Gil et al. 1991 (as *Surirella linearis*); Almeida & Gil 2001 (as *Surirella linearis* W. Smith)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella linearis*)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella linearis*)
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella linearis*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella linearis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)
Site: Lagoa da Joaninha
Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Surirella linearis* Smith)
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Holmboe 1901 (as *Surirella linearis* W. Sm.); Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: São Jorge Island
References: Johansson 1977 (as *Surirella linearis* W. Smith); Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Not Specified
Reference: Gonçalves 2008 (as *Surirella linearis* W. M. Smith)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella linearis* W.M. Smith)

***Surirella linearis* var. *constricta* Grunow 1862**, p. 141 (455) [CAS ref. 000428]

Distribution (Fig. 1222):

REGION: NORTE
Subregion: Ave
Municipality: Vila Nova de Famalicão (District: Braga)
Site: Minho River (Minho Basin)
Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)
Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)
Subregion: Not Specified
Municipality: Not Specified
Site: Serra do Gerês

Reference: Silva 1950a (as *Surirella linearis* W. Smith var. *constricta* (Ehr.) Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Surirella linearis* W. Sm. var. *constricta* Grun.); Santos & Carvalho 2001 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)

Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Surirella linearis* v. *constricta*)

Site: Not Specified

Reference: Gil et al. 1991 (as *Surirella linearis* v. *constricta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Surirella linearis* W. Sm. var. *constricta* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm. var. *constricta* (Ehr.) Grun.)

***Surirella linearis* var. *elliptica* O. Müller 1903b**, p. 30; pl. 1, fig. 10
[CAS ref. 001399]

Distribution (Fig. 1223):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Porto

Reference: Tempère & Peragallo 1907-1915 (as *Surirella linearis* v. *elliptica*)

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Surirella linearis* v. *elliptica*)

***Surirella minuta* Brébisson 1838**, p. 17 [CAS ref. 000161]

Nomenclatural synonym: *Surirella ovalis* var. *minuta* (Brébisson) Van Heurck 1896 [CAS ref. 000897]

Synonyms: *Surirella salina* W. Smith 1851 [CAS ref. 001528], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella (*Suriraya*) *apiculata* W. Smith 1856 [CAS ref. 001007], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella pinnata W. Smith 1853 [CAS ref. 000863], according to Krammer & Lange-Bertalot 1988, p. 186

Distribution (Fig. 1224):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Surirella minuta* Bréb.)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella minuta* Bréb.)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella minuta* Bréb.)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Surirella minuta* Bréb.)
Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Barro
Reference: Zimmermann 1910 (as *Surirella ovalis* (Bréb.) var. *minuta* (Bréb.) V. H.)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Surirella minuta* Brébisson)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Surirella ovata* var. *minuta* Ktz.)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Surirella ovata* var. *minuta* Ktz.)
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Surirella minuta* Brébisson)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Surirella minuta* Brébisson)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella minuta* Brébisson)
Site: Not Specified
Reference: Gonçalves 2008 (as *Surirella minuta* Brébisson)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella minuta* Brébisson)

***Surirella moelleriana* Grunow in Schmidt 1875c**, pl. 23, fig. 36
'*mölleriana*' [CAS ref. 012446]

Synonym: *Surirella* (*Suriraya*) *biseriata* f. *amphioxys* (W. Smith) Hustedt 1911
[CAS ref. 000492], according to Krammer & Lange-Bertalot 1988, p. 189

Distribution (Fig. 1225):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Surirella moelleriana* Grun.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

Reference: Mölder 1947 (as *Surirella moelleriana* Grun.)

***Surirella nana* Cleve-Euler 1915**, p. 50; pl. 4, fig. 93 [CAS ref. 000246]

Distribution (Fig. 1226):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Surirella nana*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Surirella nana*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)

Reference: Oliveira 1982b (as *Surirella nana*)

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Surirella nana*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Surirella nana* A.Cl.)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Surirella nana*)

***Surirella nervosa* (A.W.F. Schmidt in Schmidt 1875c) Ant. Mayer 1913**, p. 341; pl. 23, fig. 5, pl. 28, fig. 8, 9 [CAS ref. 000551]

Basionym: *Surirella tenera* var. *nervosa* A.W.F. Schmidt in Schmidt 1875c [CAS ref. 012446]

Distribution (Fig. 1227):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella tenera* var. *nervosa* A. S.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Surirella tenera* Gregory var. *nervosa* A. Schmidt)
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Diz River
Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *nervosa* A. S.)
Site: Vila Patrício
Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *nervosa* A. S.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Surirella tenera* v. *nervosa*)

***Surirella oblonga* Ehrenberg 1843a**, p. 388 (100); pl. 1/4, fig. 4
[CAS ref. 000294]

Distribution (Fig. 1228):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Surirella oblonga* Eh., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Surirella oblonga* Eh., fossil)

***Surirella ovalis* Brébisson 1838**, p. 17 [CAS ref. 000161]

Distribution (Fig. 1229):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Surirella ovalis* Brébisson)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Surirella ovalis* Brébisson)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Surirella ovalis*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Surirella ovalis*)

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Zimmermann 1909b (as *Surirella ovalis* Bréb.)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella ovalis* Bréb.)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001 (as *Surirella ovalis* Brébisson)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Surirella ovalis*); Oliveira 1996 (as *Surirella ovalis*)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Surirella ovalis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Surirella ovalis* Bréb.)

Site: Furnas

Reference: Mölder 1947 (as *Surirella ovalis* Bréb.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Surirella ovalis* Bréb.)

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Surirella ovalis* Brébisson)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella ovalis* Brébisson)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: São João Stream

Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)

Municipality: Porto Santo (Porto Santo Island)

Site: Ponte do Espírito Santo

Reference: Zimmermann 1910-1911 (as *Surirella ovalis* Bréb.)

Municipality: Ribeira Brava (Madeira Island)

Site: Pomar de Ambrosio, Campanário

Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)

Site: Sítio da Chamorra, Campanário

Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)

Municipality: Santa Cruz (Madeira Island)

Site: Fonte do Mestre Henrique, Caniço

Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Surirella ovalis* Bréb.); Bourrelly &

Manguin 1946a (as *Surirella ovalis* Bréb.)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella ovalis* Brébisson)

***Surirella ovalis* var. *apiculata* O. Müller 1903b**, p. 36; pl. 2, fig. 10
[CAS ref. 001399]

Distribution (Fig. 1230):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.); Bourrelly & Manguin 1946a (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.); Bourrelly & Manguin 1946a (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.)

***Surirella ovalis* var. *brightwellii* (W. Smith) Cleve-Euler 1952**, v. 3(3): p. 121; fig. 1565e, f [CAS ref. 001044]

Basionym: *Surirella* (*Suriraya*) *brightwellii* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 1231):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brightwellii* W. Smith)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brightwellii* W. Smith)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brightwellii* W. Smith)

***Surirella ovalis* var. *salina* (W. Smith) Cleve-Euler 1952**, v. 3(3): p. 120; fig. 1565c, d [CAS ref. 001044]

Basionym: *Surirella salina* W. Smith 1851 [CAS ref. 001528]

Nomenclatural synonym: *Surirella ovata* var. *salina* (W. Smith) Rabenhorst 1864 [CAS ref. 000775]

Synonyms: *Surirella minuta* Brébisson 1838 [CAS ref. 000161, according to Krammer & Lange-Bertalot 1988, p. 186

Surirella salina W. Smith 1851 [CAS ref. 001528], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella (Suriraya) apiculata W. Smith 1856 [CAS ref. 001007], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella pinnata W. Smith 1853 [CAS ref. 000863], according to Krammer & Lange-Bertalot 1988, p. 186

Distribution (Fig. 1232):

REGION: NORTE

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Surirella ovata* Kütz. var. *salina* (W. Smith) Hust.)

***Surirella ovata* Kützing 1844**, p. 62; pl. 7, fig. 1-4 [CAS ref. 000595]

Nomenclatural synonym: *Surirella ovalis* var. *ovata* (Kützing) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1233):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Surirella ovata* Kütz.)
Municipality: Vila Nova de Gaia (District: Porto)
Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Surirella ovata*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella ovata* Kützing)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella ovata* Kützing); Gil et al. 1989-1990
(as *Surirella ovata*)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella ovata* Kützing)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Municipality: Anadia (District: Aveiro)
Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)
References: Gil 1988 (as *Surirella ovata* Kützing); Gil et al. 1989-1990
(as *Surirella ovata*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)
References: Gil 1988 (as *Surirella ovata* Kützing); Gil et al. 1989-1990
(as *Surirella ovata*)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Surirella ovata*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella ovata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella ovata*)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Surirella ovata* Kützing)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella ovata* Kützing)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Surirella ovata*)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella ovata*)
 Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella ovata*)
- REGION: ALENTEJO
 Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Surirella ovata*)
- REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella ovata*)
- REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Holmboe 1901 (as *Surirella ovata* Kütz.)
- REGION: AUTONOMOUS REGION OF MADEIRA
 Municipality: Porto Santo (Porto Santo Island)
 Site: Serra de Dentro Stream
 Reference: Zimmermann 1910-1911 (as *Surirella ovalis* Bréb. var. *ovata* (Kuetz.) V. H.)

***Surirella ovata* var. *apiculata* W. Smith 1853** [CAS ref. 000863]

Distribution:

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Surirella ovata* Kg. var. *apiculata* W. Smith)

***Surirella ovata* var. *pinnata* (W. Smith) Hustedt 1930**, p. 442 [CAS ref. 000502]

Basionym: *Surirella pinnata* W. Smith 1853 [CAS ref. 000863]

Nomenclatural synonym: *Surirella ovalis* var. *pinnata* (W. Smith) Van Heurck 1885 [CAS ref. 001040]

Synonyms: *Surirella minuta* Brébisson 1838 [CAS ref. 000161], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella salina W. Smith 1851 [CAS ref. 001528], according to Krammer & Lange-Bertalot 1988, p. 186

Surirella (*Suriraya*) *apiculata* W. Smith 1856 [CAS ref. 001007], according to Krammer & Lange-Bertalot 1988, p. 186

Distribution (Fig. 1234):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1910 (as *Surirella ovalis* Bréb. var. *pinnata* (W. Sm.) V. H.)

***Surirella ovulum* Hustedt 1942c**, p. 164; pl. 411 [CAS ref. 000516]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Surirella ovulum* Hustedt)

***Surirella rattrayi* A.W.F. Schmidt in Schmidt 1875c**, pl. 23, fig. 18-21 [CAS ref. 012446]

Distribution (Fig. 1235):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Porto

Reference: Tempère & Peragallo 1907-1915 (as *Surirella rattrayi* A. S.)

***Surirella roba* L. Leclercq 1983**, p. 495; fig. 1(2-6), 2(2-8), 3(1-6) [CAS ref. 008478]

Distribution (Fig. 1236):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Surirella roba* Leclercq); Nunes 2007 (as *Surirella roba* Leclercq); Ferreira da Silva et al. 2009 (as *Surirella roba* Leclercq)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Surirella roba* Leclercq); Nunes 2007 (as *Surirella roba* Leclercq)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Surirella roba* Leclercq)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella roba* Leclercq)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
- Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Surirella roba* Leclercq)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Not Specified
- Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)
- Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)
- Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)

Site: Not Specified
Reference: Gonçalves 2008 (as *Surirella roba* Leclercq)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella roba* Leclercq)

***Surirella robusta* Ehrenberg 1840a**, p. 215 [CAS ref. 000293]

Distribution (Fig. 1237):

REGION: NORTE
Subregion: Ave
Municipality: Fafe (District: Braga)
Site: Travassós, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Surirella robusta*)
Municipality: Vila Nova de Famalicão (District: Braga)
Site: Minho River (Minho Basin)
Reference: Zimmermann 1906 (as *Surirella robusta* Ehr.)
Subregion: Douro
Municipality: Armamar (District: Viseu)
Site: Queimadela, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Surirella robusta*)
Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella robusta*)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella robusta*)
Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
Site: Barragem de Covas, Coura River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Surirella robusta*)
Municipality: Not Specified
Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Surirella robusta*)
Subregion: Not Specified
Municipality: Not Specified
Site: Ave Reservoirs, Ave River (Ave Basin)
References: Branco et al. 1991a (as *Surirella robusta*); Branco et al. 1991b (as *Surirella robusta*)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Poço do Almegue
Reference: Nauwerck 1959 (as *Surirella robusta* Ehrnb.)

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*); Almeida 1998 (as *Surirella robusta* Ehrenberg)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)

Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)

Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella robusta*)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Surirella robusta*); Almeida 1998 (as *Surirella robusta* Ehrenberg)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Surirella robusta* Ehrenberg)
 Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Surirella robusta*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Surirella robusta*)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

References: Nauwerck 1962 (as *Surirella robusta* Ehrnb.); Vasconcelos et al. 2001 (as *Surirella robusta*); Santos & Carvalho 2001 (as *Surirella robusta* E.); MAOT 2002 (as *Surirella robusta*)

Subregion: Not Specified

Municipality: Not Specified

Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Surirella robusta*); Cerqueira da Silva et al. 1993 (as *Surirella robusta*)

Site: Not Specified

References: Calado 1990 (as *Surirella robusta* Ehrenberg); Gil et al. 1991 (as *Surirella robusta*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Surirella robusta*); Oliveira 1987 (as *Surirella robusta* Hust.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Surirella robusta*); Oliveira 1996 (as *Surirella robusta*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Surirella robusta*)

Municipality: Gavião (District: Portalegre)

Site: Belder Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Surirella robusta* Hust.)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Surirella robusta* Hust.)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Surirella robusta*)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Surirella robusta*)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella robusta*)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Surirella robusta*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella robusta*)

REGION: ALGARVE
Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Surirella robusta*)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Surirella robusta* Ehrenberg)

***Surirella smithii* Ralfs in Pritchard 1861**, p. 794 [CAS ref. 001063]

Distribution (Fig. 1238):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Surirella smithii* Ralfs, fossil)

***Surirella splendida* (Ehrenberg) Kützing 1844**, p. 62; pl. 7, fig. 9
[CAS ref. 000595]

Basionym: *Navicula splendida* Ehrenberg 1832b [CAS ref. 000282]

Nomenclatural synonym: *Surirella robusta* var. *splendida* (Ehrenberg) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1239):

REGION: NORTE
Subregion: Ave
Municipality: Vieira do Minho (District: Braga)
Site: Guilhofrei Reservoir, Ave River (Ave Basin)
Reference: Nauwerck 1962 (as *Surirella robusta* (E.) v. *splendida* (E.) V.H.)

Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Surirella splendida* (Ehrenberg) Kützing)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck); Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)
Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)
Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Surirella splendida* (Ehr.) Kuetz.)

Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van
Heurck)

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Gil et al. 1991 (as *Surirella robusta* v. *splendida*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Surirella robusta* var. *splendida*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Surirella robusta* var. *splendida*)
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Guadiana Basin)
Reference: Oliveira 1984a (as *Surirella robusta* var. *splendida*)

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1984a (as *Surirella robusta* var. *splendida*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Surirella splendida* (Ehrenberg)
Kützing)

***Surirella sublinearis* Hustedt 1942c**, p. 150; fig. 373-376 [CAS ref.
000516]

Distribution (Fig. 1240):

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
Reference: Gil et al. 1991 (as *Surirella sublinearis*)

Surirella tenera W. Gregory 1856, p. 11; pl. 1, fig. 38 [CAS ref. 000397]

Distribution (Fig. 1241):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Minho River (Minho Basin)

Reference: Zimmermann 1906 (as *Surirella tenera* Greg.)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella tenera* Gregory)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella tenera* Greg.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella tenera*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella tenera*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella tenera*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)

Site: Tentúgal, Olho da Ribeira dos Moinhos

Reference: Nauwerck 1959 (as *Surirella tenera* Greg.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*); Almeida 1998 (as *Surirella tenera* Gregory)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Surirella tenera* Gregory)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Municipality: Estarreja (District: Aveiro)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfrazes
Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
- Site: Cruz da Faia

Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Surirella tenera* Greg.); Santos & Carvalho 2001 (as *Surirella tenera* Grég.)
 Site: Vela
 Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Surirella tenera* Greg.)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Surirella tenera*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Frade 1961 (as *Surirella tenera*)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)

Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Surirella tenera*)
Site: Not Specified
References: Calado 1990 (as *Surirella tenera* Gregory); Gil et al. 1991 (as *Surirella tenera*)

REGION: ALENTEJO
Subregion: Alentejo Central
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Oliveira & Monteiro 1995 (as *Surirella tenera*); Oliveira 1996 (as *Surirella tenera*)
Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Surirella tenera*)

***Surirella tenera* var. *splendidula* A.W.F. Schmidt in Schmidt 1875c, pl. 23, fig. 4-6 [CAS ref. 012446]**

Distribution (Fig. 1242):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *splendidula* A.S.)
Site: Diz River
Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *splendidula* A.S.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Surirella tenera* Greg. var. *splendidula* A.S.); Santos & Carvalho 2001 (as *Surirella tenera* Grég. var. *splendidula* A.S.)

***Surirella terricola* Lange-Bertalot & Alles in Lange-Bertalot & Metzeltin 1996, v. 2: p. 107-108; pl. 106, fig. 16, pl. 77, fig. 15-19 [CAS ref. 007048]**

Distribution (Fig. 1243):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Surirella terricola* Lange-Bertalot & E. Alles)

***Surirella* sp.**

Distribution (Fig. 1244):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Surirella* sp.)

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Surirella* spp.)

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Surirella* sp.)

Subregion: Douro

Municipality: Armamar (District: Viseu)

Site: Queimadela, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Surirella* spp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella* spp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Cabeçadas et al. 1980 (as *Surirella* sp.); Brito & Andrade 1992 (as *Surirella* sp.); Brito & Andrade 1992 (as *Surirella* spp.)

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella* sp.)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella* sp.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella* sp.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella* spp.)
Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Surirella* sp.)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Surirella* sp.)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Surirella* spp.)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Surirella* sp.)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella* spp.)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella* spp.)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella* spp.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Surirella* sp.)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella* sp.)
Subregion: Lezíria do Tejo
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella* spp.)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella* spp.)
Subregion: Not Specified

Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella* sp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Surirella* sp.)

***Synedra Ehrenberg 1830*, p. 60**
[CAS ref. 001999]

***Synedra acus* var. *angustissima* (Grunow) Van Heurck 1885**, p. 151
[CAS ref. 001040]

Basionym: *Synedra delicatissima* var. *angustissima* Grunow in Van Heurck 1881
[CAS ref. 001035]

Distribution (Fig. 1245):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Synedra acus* var. *angustissima* Grun.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Bom-Sucesso

Reference: Nauwerck 1962 (as *Synedra acus* v. *angustissima* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Synedra acus* Kütz. var. *angustissima* Grun.)

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves 2008 (as *Synedra acus* var. *angustissima* Grunow)

***Synedra acus* var. *delicatissima* (W. Smith) Grunow 1862**, (p. 399);
pl. 5/8, fig. 15 [CAS ref. 000428]

Basionym: *Surirella delicatissima* F.W. Lewis 1864 [CAS ref. 000610]

Distribution (Fig. 1246):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira et al. 1985 (as *Synedra acus delicatissima*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira et al. 1985 (as *Synedra acus delicatissima*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

References: Oliveira 1985 (as *Synedra acus delicatissima*); Oliveira et al.

1985 (as *Synedra acus delicatissima*)

Subregion: Cávado

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella delicatissima*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella delicatissima*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella delicatissima*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella delicatissima*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella delicatissima*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella delicatissima* Lewis)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella delicatissima* Lewis)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella delicatissima* Lewis)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella delicatissima* Lewis)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Synedra delicatissima*)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Surirella delicatissima*)
Site: Not Specified
Reference: Gil et al. 1991 (as *Surirella delicatissima*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

References: Oliveira 1987 (as *Synedra acus* Kz. var. *delicatissima* (W. Sm.) Ost.); Oliveira 1992 (as *Synedra acus* Kz. var. *delicatissima* (W. Sm.) Ostr.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Synedra acus* var. *delicatissima* (W. Sm.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Holmboe 1901 (as *Synedra acus* var. *delicatissima* (W. Sm.) Grun.); Chaves 1908 (as *Synedra delicatissima* Sm.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Surirella delicatissima* Lewis)

***Synedra affinis* var. *fasciculata* (Lyngbye; Kützing) Grunow in Van Heurck 1885, p. 153; pl. 41, fig. 15 (1881) [CAS ref. 001040]**

Basionym: *Echinella fasciculata* Lyngbye 1819 [CAS ref. 000620]

Distribution (Fig. 1247):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Synedra affinis* var. *fasciculata* Grun., fossil)

Synedra allorgei Manguin 1942, p. 124; pl. 1, fig. 6 a-c [CAS ref. 000623]

Distribution (Fig. 1248):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

Reference: Bourrelly & Manguin 1946a (as *Synedra allorgei* Bourrelly & Manguin)

Site: Lagoinha, Fajãzinha

Reference: Manguin 1942 (as *Synedra allorgei* Bourrelly & Manguin)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Synedra allorgei* Manguin); Bourrelly & Manguin 1946a (as *Synedra allorgei* Manguin)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Synedra allorgei* Manguin)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Synedra allorgei* Manguin)

Synedra crystallina (C. Agardh) Kützing 1844, p. 69; pl. 16, fig. 1 [CAS ref. 000595]

Basionym: *Diatoma crystallinum* C. Agardh 1824 [CAS ref. 000102]

Distribution (Fig. 1249):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Synedra crystallina* Kg.)

Synedra cunningtonii G.S. West 1907, p. 151; pl. 8, fig. 4 [CAS ref. 001558]

Distribution (Fig. 1250):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (*Synedra Cunningtoni* G. S. West.)

***Synedra familiaris f. parva* Grunow in Van Heurck 1881**, pl. 40, fig. 15 [CAS ref. 001035]

Distribution (Fig. 1251):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Synedra (Rumpens* var.?) *familiaris* Kuetz. fa. *parva*); Santos & Carvalho 2001 (as *Synedra (Rumpens* var.?) *familiaris* Kuetz. fa. *parva*)

***Synedra gaillonii* (Bory) Ehrenberg 1830**, p. 129 [CAS ref. 001999]

Basionym: *Navicula gaillonii* Bory 1824 [CAS ref. 000147]

Distribution (Fig. 1252):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Synedra gaillonii* (Bory) Ehr., fossil)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Synedra gaillonii* (Bory) Ehrenberg)

***Synedra gracilis* Kützing 1844**, p. 64; pl. 3/14, pl. 14/2 fig. b, pl. 15/8, fig. 1, 2, 5 [CAS ref. 000595]

Distribution (Fig. 1253):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)

Site: Coimbra
Reference: De Toni 1887 (as *Synedra gracilis* Kützing)
Site: Not Specified
Reference: Colmeiro 1889 (as *Synedra gracilis* Kg.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Synedra gracilis* Ktz.)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Synedra gracilis* Ktz.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Synedra gracilis* Kützing)

***Synedra parva* Kützing 1849**, p. 46 [CAS ref. 000596]

Distribution (Fig. 1254):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Synedra parva* Ktz.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Synedra parva* Kützing)

***Synedra pinnata* W. Smith 1853** [CAS ref. 000863]

Distribution (Fig. 1255):

REGION: NORTE

Subregion: Grande Porto
Municipality: Porto (District: Porto)
Site: Not Specified
Reference: Colmeiro 1889 (as *Synedra pinnata* W. Sm.)

***Synedra polymorpha* (Pantocsek & Grunow) H.-J. Schrader 1969**,
p. 21; pl. 8, fig. 3, 6, 13, 14, pl. 11, fig. 3b-f [CAS ref. 003203]

Basionym: *Clavicula polymorpha* Grunow & Pantocsek in Pantocsek 1886 [CAS
ref. 000714]

Distribution (Fig. 1256):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not Specified

Reference: Silva 1946b (as *Clavícula polymorpha* Grun. et Pant., fossil)

***Synedra rumpens* var. *familiaris* (Kützing) Grunow in Van Heurck 1881**, pl. 40, fig. 15-16 [CAS ref. 001035]

Basionym: *Synedra familiaris* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1257):

REGION: NORTE

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Synedra rumpens* var. *familiaris* Grun.)

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Synedra rumpens* var. *familiaris* Grun.)

Municipality: Porto (District: Porto)

Site: Not Specified

Reference: Colmeiro 1889 (as *Synedra familiaris* Kg.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Synedra rumpens* v. *familiaris*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow) Gil et al. 1989-1990 (as *Synedra rumpens* v. *familiaris*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Synedra rumpens* v. *familiaris*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)
- Subregion: Not Specified
- Municipality: Not Specified
- Site: Not Specified
- Reference: Gil et al. 1991 (as *Synedra rumpens* v. *familiaris*)

***Synedra tabulata* var. *hybrida* (Grunow in Van Heurck) Cleve-Euler 1953, p. 72; fig. 392 m [CAS ref. 001041]**

Basionym: *Synedra affinis* var. *hybrida* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 1258):

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Synedra tabulata* v. *hybrida* (Grunow) Cleve)

***Synedra tenuis* Kützing 1844**, p. 65; pl. 14, fig. 12 [CAS ref. 000595]

Distribution (Fig. 1259):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Synedra tenuis* Ktz., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Synedra tenuis* Ktz., fossil)

Synedra torta [CAS ref. -]

Distribution (Fig. 1260):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra torta*)

***Synedra ulna* var. *bicurvata* (Biene ex Rabenhorst) Grunow in Van Heurck 1881**, pl. 38, fig. 8 [CAS ref. 001035]

Basionym: *Synedra ulna* var. *bicurvata* Biene ex Rabenhorst [CAS ref. -]

Distribution (Fig. 1261):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Vela

Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *bicurvata* (Biene) Grun.)

***Synedra ulna* var. *longissima* (W. Smith) Grunow 1862, p. 81 (395)**
[CAS ref. 000428]

Basionym: *Synedra longissima* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 1262):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr. var. *longissima* W. Sm.); Santos & Carvalho 2001 (as *Synedra ulna* (Nitzsch.) Ehr. var. *longissima* W. Sm.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1906 (as *Synedra ulna* var. *longissima* (W. Sm.) Brun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Flamengos

Reference: Holmboe 1901 (as *Synedra ulna* (Nitzsch.) Ehr. var. *longissima* (W.Sm.) Brun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Synedra longissima* Sm.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch.) Ehr. var. *longissima*)

Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream

Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch.) Ehr. var. *longissima*)

Synedra vitrea Kützing 1844, p. 66; pl. 14, fig. 17 [CAS ref. 000595]

Distribution (Fig. 1263):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Synedra vitreae* Ktz., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Synedra vitraea* Ktz., fossil)

***Synedra* sp.**

Distribution (Fig. 1264):

REGION: NORTE

Subregion: Tâmega

Municipality: Marco de Canavezes (District: Porto)

Site: Torrão Reservoir, Tâmega River (Douro Basin)

Reference: Branco & Guimarães 1991 (as *Synedra* sp.)

Subregion: Not Specified

Municipality: Not Specified

Site: Ave Reservoirs, Ave River (Ave Basin)

References: Branco et al. 1991a (as *Synedra* sp.); Branco et al. 1991b (as *Synedra* sp.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Synedra* sp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Pego, Tagus River (Tagus Basin)

Reference: Cerqueira da Silva 1989 (as *Synedra* sp.)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra* spp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Andrade et al. 1988 (as *Synedra* sp.); Brito & Andrade 1992 (as *Synedra* spp.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra* spp.)

Subregion: Oeste

Municipality: Alenquer (District: Lisboa)

Site: Alenquer, Alenquer Reservoir

Reference: Frade 1941b (as *Synedra* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Synedra* spp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra* spp.)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Synedra* spp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra* spp.)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra* spp.)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Synedra* spp.); Brito & Andrade 1992 (as *Synedra* spp.)

Subregion: Not Specified

Municipality: Not Specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

References: Andrade & Brito 1991 (as *Synedra* sp.); Andrade & Brito 1991 (as *Synedra* spp.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Synedra* spp.)

***Tabellaria* Ehrenberg ex Kützing 1844, p. 127**

[CAS ref. 000595]

Tabellaria fenestrata (Lyngbye) Kützing 1844, p. 127; pl. 17, fig. 22, pl. 18, fig. 2 [CAS ref. 000595]

Basionym: *Diatoma fenestratum* Lyngbye 1819 [CAS ref. 000620]

Distribution (Fig. 1265):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River -(Cávado Basin)

References: Oliveira 1982a (as *Tabellaria fenestrata*); Oliveira et al. 1985 (as *Tabellaria fenestrata*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Tabellaria fenestrata*); Oliveira et al. 1985 (as *Tabellaria fenestrata*)

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Tabellaria fenestrata*)

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

References: Oliveira 1982a (as *Tabellaria fenestrata*); Oliveira et al. 1985 (as *Tabellaria fenestrata*)

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ave River (Ave Basin)

Reference: Zimmermann 1909b (as *Tabellaria fenestrata* (Lyngb.) Kuetz.)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)

Subregion: Douro

Municipality: Armamar (District: Viseu)

Site: Queimadela, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Tabellaria fenestrata*)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Tabellaria fenestrata* (Lyngb.) Kütz.)

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Tabellaria fenestrata*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Tabellaria fenestrata*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Tabellaria fenestrata*)

Municipality: Melgaço (District: Viana do Castelo)

Site: São Gregório, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Tabellaria fenestrata*)

Municipality: Not Specified

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)

Site: Lima River (Lima Basin)

Reference: Cerqueira da Silva 1990 (as *Tabellaria fenestrata*)

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Tabellaria fenestrata*)

Subregion: Not Specified

Municipality: Not Specified

Site: Ave Reservoirs, Ave River (Ave Basin)

References: Branco et al., 1991a (as *Tabellaria fenestrata*); Branco et al. 1991b (as *Tabellaria fenestrata*)

Site: Ave River (Ave Basin)
Reference: Cerqueira da Silva 1991 (as *Tabellaria fenestrata*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing);
Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Tabellaria fenestrata*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing); Gil et al. 1989-1990 (as *Tabellaria fenestrata*)
 Site: Vagueira, Canal de Mira
 Reference: Mendes et al. 2009 (as *Tabellaria fenestrata*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Municipality: Estarreja (District: Aveiro)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Tabellaria fenestrata*); Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Mondego River (Mondego Basin)
 Reference: Carvalho 1913 (as *Tabellaria fenestrata* (Lyngb.) Kuetz.)
 Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Tabellaria fenestrata*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Tabellaria fenestrata*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Tabellaria fenestrata*)
Subregion: Pinhal Interior Norte
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria fenestrata*)
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria fenestrata*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria fenestrata*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Tabellaria fenestrata*); Cerqueira da Silva et al. 1993 (as *Tabellaria fenestrata*); Cerqueira da Silva 1994 (as *Tabellaria fenestrata*)
Site: Not Specified
References: Reference: Calado 1990 (as *Tabellaria fenestrata* (Lyngbye) Kützing); Gil et al. 1991 (as *Tabellaria fenestrata*); Almeida & Gil 2001 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Tabellaria fenestrata* (Lyng.) Kz.)
Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Tabellaria fenestrata* (Lyngb.)Kg.)
Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Tabellaria fenestrata*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Tabellaria fenestrata*)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Tabellaria fenestrata* (Lyngb.) Kütz., fossil)
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Tabellaria fenestrata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Reference: Trelease 1897 (as *Tabellaria fenestrata* Kütz.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
References: Holmboe 1901 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);
Mölder 1947 (as *Tabellaria fenestrata* (Lyngb.) Kütz.)
Site: Lagoa das Sete Cidades
References: Holmboe 1901 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);
Mölder 1947 (as *Tabellaria fenestrata* (Lyngb.) Kütz.); Oliveira 1989 (as
Tabellaria fenestrata)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Holmboe 1901 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);
Chaves 1908 (as *Tabellaria fenestrata* Sm.); Manguin 1942 (as
Tabellaria fenestrata (Lyngb.) Kütz.); Bourrelly & Manguin 1946a (as
Tabellaria fenestrata (Lyngb.) Kütz.)
Site: Pico da Vara
Reference: Mölder 1947 (as *Tabellaria fenestrata* (Lyngb.) Kütz.)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Tabellaria fenestrata* Sm., fossil)
Municipality: Not Specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);
Bourrelly & Manguin 1946a (as *Tabellaria fenestrata* (Lyngb.) Kütz.)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Tabellaria fenestrata* (Kützing)
Aboal)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Tabellaria fenestrata* (Kützing)
Aboal)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Tabellaria fenestrata*)
Site: Not Specified
Reference: INAG I.P. 2008 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

***Tabellaria fenestrata* f. *intermedia* (Grunow) Skabichevskii 1960**, p. 294-295; text fig. 110

Basionym: *Tabellaria fenestrata* var. *intermedia* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 1266):

REGION: CENTRO
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Covão do Vidoal Reservoir (Mondego Basin)
References: Nauwerck 1962 (as *Tabellaria fenestrata* fa. *intermedia* Grunow); Santos & Carvalho 2001 (as *Tabellaria fenestrata* fa. *intermedia* Grun.)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Nauwerck 1962 (as *Tabellaria fenestrata* fa. *intermedia* Grunow)

***Tabellaria flocculosa* (Roth) Knudson 1952**, p. 436 [CAS ref. 002747]

Basionym: *Conferva flocculosa* Roth 1797 [CAS ref. 000798]

Distribution (Fig. 1267):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)
Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)
References: Oliveira 1982a (as *Tabellaria flocculosa*); Oliveira et al. 1985 (as *Tabellaria flocculosa*)
Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

- References: Oliveira 1982a (as *Tabellaria flocculosa*); Oliveira 1985 (as *Tabellaria flocculosa*); Oliveira et al. 1985 (as *Tabellaria flocculosa*)
- Subregion: Ave
- Municipality: Vieira do Minho (District: Braga)
- Site: Guilhofrei Reservoir, Ave River (Ave Basin)
- Reference: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) Kg.)
- Site: Salamonde Reservoir, Cávado River (Cávado Basin)
- References: Oliveira 1982a (as *Tabellaria flocculosa*); Oliveira 1985 (as *Tabellaria flocculosa*); Oliveira et al. 1985 (as *Tabellaria flocculosa*)
- Subregion: Cávado
- Municipality: Barcelos (District: Braga)
- Site: Barcelos, Cávado River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)
- Site: Manhente, Cávado River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)
- Municipality: Braga (District: Braga)
- Site: Padim da Graça, Cávado River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)
- Municipality: Esposende (District: Braga)
- Site: Marachão, Cávado River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)
- Municipality: Terras de Bouro (District: Braga)
- Site: Bouro Reservoir, Homem River (Cávado Basin)
- Reference: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) Kg.)
- Municipality: Not Specified
- Site: Entrepontes, Cávado River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)
- Site: Homem River (Cávado Basin)
- Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)
- Subregion: Entre Douro e Vouga
- Municipality: São João da Madeira (District: Aveiro)
- Site: Ui River (Vouga Basin)
- Reference: Resende et al. 2009 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Vale de Cambra (District: Aveiro)
- Site: Barbeito, Caima River (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Vale de Cambra, Caima River (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Subregion: Grande Porto
- Municipality: Maia (District: Porto)
- Site: Parada
- Reference: Silva 1950b (as *Tabellaria flocculosa* (Roth) Kütz.)
- Subregion: Minho-Lima
- Municipality: Caminha (District: Viana do Castelo)
- Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Tabellaria flocculosa*)
Municipality: Melgaço (District: Viana do Castelo)
Site: São Gregório, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Tabellaria flocculosa*)
Municipality: Paredes de Coura (District: Viana do Castelo)
Site: Insalde
Reference: Zimmermann 1914 (as *Tabellaria flocculosa* (Roth) Kuetz.)
Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Tabellaria flocculosa*)
Municipality: Not Specified
Site: Lima River (Lima Basin)
Reference: Cerqueira da Silva 1990 (as *Tabellaria flocculosa*)
Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Tabellaria flocculosa*)
Subregion: Not Specified
Municipality: Not Specified
Site: Ave Reservoirs, Ave River (Ave Basin)
References: Branco et al. 1991a (as *Tabellaria flocculosa*); Branco et al. 1991b (as *Tabellaria flocculosa*)
Site: Serra do Gerês
Reference: Silva 1950a (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Not Specified
Reference: Cabeçadas & Brogueira 1987 (as *Tabellaria flocculosa*)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
Municipality: Coimbra (District: Coimbra)
Site: Mondego River (Mondego Basin)
Reference: Zimmermann 1906 (as *Tabellaria flocculosa* (Roth) Kuetz.)
Municipality: Penacova (District: Coimbra)
Site: Agueira Reservoir, Mondego River (Mondego Basin)
Reference: Oliveira & Monteiro 1992 (as *Tabellaria flocculosa*)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*); Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Bolfiar, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)

- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Tabellaria flocculosa*); Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Tabellaria flocculosa* (Roth) Kützing)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Site: Cubo
Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Site: Guarda
Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Site: Meios
References: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.); Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth.) Kuetz.)

- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.); Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Site: Nueme
Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Tabellaria flocculosa*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth.) Kützing)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth.) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Subregion: Médio Tejo
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Frade 1961 (as *Tabellaria flocculosa* (Roth.))
- Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (as *Tabellaria flocculosa* (Roth.) Kg.)

Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria flocculosa*)
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria flocculosa*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Covão do Curral Reservoir
Reference: Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
Site: Covão do Vidoal Reservoir (Mondego Basin)
References: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) Kg.);
Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth.) Kuetz.)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
References: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) Kg.);
Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth.) Kuetz.);
Vasconcelos et al. 2001 (as *Tabellaria flocculosa*); MAOT 2002 (as
Tabellaria flocculosa)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
Subregion: Not Specified
Municipality: Not Specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Tabellaria flocculosa*); Cerqueira
da Silva et al. 1993 (as *Tabellaria flocculosa*); Cerqueira da Silva 1994
(as *Tabellaria flocculosa*)
Site: Not Specified
References: Calado 1990 (as *Tabellaria flocculosa* (Roth) Kütz.); Gil et
al. 1991 (as *Tabellaria flocculosa*); Almeida & Gil 2001 (as *Tabellaria
flocculosa* (Roth) Kützing)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1987 (as *Tabellaria flocculosa* (Roth.) Kz.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Tabellaria flocculosa*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Tabellaria flocculosa*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Lagoa da Joaninha
Reference: Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Not Specified
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth.) Kütz.)
Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Ribeira de São João
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Municipality: Corvo (Corvo Island)
Site: Caldeira
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Municipality: Horta (Faial Island)
Site: Not Specified
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.);
Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.)
Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.);
Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Tabellaria flocculosa* Kütz.)
Site: Lagoa Grande
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Pico do Carvão
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Pico da Cruz

Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth.) Kütz.)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Tabellaria flocculosa* Agh.); Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.); Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.); Gonçalves 1997 (as *Tabellaria flocculosa*)
Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Pico da Vara
References: Holmboe 1901 (as *Tabellaria flocculosa* (Roth.) Kütz.); Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.); Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Pico Verde
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Lagoa do Negro
References: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.); Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.); Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Lagoa Comprida
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Not Specified
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.);
Site: Lagoa do Fogo (São Miguel Island)
Reference: Cedercreutz 1941 (as *Tabellaria flocculosa*)
Municipality: Not Specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth.) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth.) Kütz.)
Site: Pico Island
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)

Site: São Jorge Island
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Terceira Island
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Not Specified
Reference: Gonçalves 2008 (as *Tabellaria flocculosa* (Roth) Kützing)
Municipality: Not Specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Tabellaria flocculosa* (Roth) Kützing)

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Tabellaria flocculosa*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Tabellaria flocculosa* (Roth) Kützing)

***Tabellaria ventricosa* Kützing 1844**, p. 127; pl. 30, fig. 74 [CAS ref. 000595]

Nomenclatural synonym: *Tabellaria flocculosa* var. *ventricosa* (Kützing) Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 1268):

REGION: NORTE

Subregion: Not Specified

Municipality: Not Specified

Site: Serra do Gerês

Reference: Zimmermann 1909b (as *Tabellaria flocculosa* (Roth) Kuetz. var. *ventricosa* (Kuetz.) Grun.); Sampaio 1950 (as *Tabellaria flocculosa* (Roth.) Kütz. var. *ventricosa* (Kütz.) Grun.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Tabellaria ventricosa* Kützing)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Tabellaria ventricosa* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Tabellaria ventricosa* Kützing)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Tabellaria ventricosa* Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Tabellaria ventricosa* Kützing)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Tabellaria ventricosa* Kützing)

***Tabellaria* sp.**

Distribution (Fig. 1269):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)

Reference: Geraldés & Boavida 2005 (as *Tabellaria* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Tabellaria* spp.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Tabellaria* sp.)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Tabellaria* sp. ind., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Tabellaria* sp. ind., fossil)

***Tabularia* (Kützing) D.M. Williams & Round 1986,**
p. 320 [CAS ref. 003154]

***Tabularia affinis* (Kützing) Snoeijs 1992,** p. 343; fig. 49-71 [CAS
ref. 008828]

Basionym: *Synedra affinis* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1270):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1909b (as *Synedra affinis* Kütz.)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Synedra affinis*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Not Specified

Reference: Zimmermann 1909b (as *Synedra affinis* Kütz.)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Synedra affinis* Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Synedra affinis* Ktz.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Tabularia affinis* (Kützing) Snoeijs)

***Tabularia fasciculata* (C. Agardh) D.M. Williams & Round 1986,**
p. 326; fig. 46-52 [CAS ref. 003154]

Basionym: *Diatoma fasciculata* C. Agardh 1812 [CAS ref. 001941]

Nomenclatural synonym: *Fragilaria fasciculata* (C. Agardh) Lange-Bertalot 1980a
[CAS ref. 008465]

Distribution (Fig. 1271):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Forte, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot)
Site: Porto de Beja, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot)
Site: Porto Ferreira, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot sensu lato)

***Tabularia tabulata* (C. Agardh) Snoeijs 1992**, p. 343; fig. 38-48
[CAS ref. 008828]

Basionym: *Diatoma tabulatum* C. Agardh 1832 [CAS ref. 000940]

Nomenclatural synonym: *Synedra tabulata* (C. Agardh) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 1272):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra tabulata*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra tabulata*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra tabulata*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra tabulata*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra tabulata*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra tabulata*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Synedra tabulata* Agardh)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra tabulata*)

- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra tabulata* (Agardh) Kützing)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Synedra tabulata* Agardh)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Synedra tabulata* (Ag.) Kütz.); Bourrelly & Manguin 1946a (as *Synedra tabulata* (Ag.) Kütz.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Tabularia tabulata* (Agardh) Snoeijs)

***Tetracyclus Ralfs 1843b*, p. 105**
[CAS ref. 001842]

***Tetracyclus braunii* Grunow 1862**, p. 98 (412); pl. 4/7, fig. 37 [CAS ref. 000428]

Distribution (Fig. 1273):

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Schodduyn 1927 (as *Tetracyclus braunii* Grun.)
Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Schodduyn 1927 (as *Tetracyclus braunii* Grun.)

***Thalassiosira Cleve* 1873**, p. 6
[CAS ref. 000220]

***Thalassiosira decipiens* (Grunow; Grunow in Van Heurck) E.G. Jørgensen 1905**, p. 96; pl. 6, fig. 3 [CAS ref. 000546]

Basionym: *Coscinodiscus excentricus* var. *decipiens* Grunow; Grunow in Van Heurck

Distribution (Fig. 1274):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Thalassiosira decipiens*)

***Thalassiosira fallax* Meunier 1910**, p. 268; pl. 30, fig. 1-4 [CAS ref. 000658]

Distribution (Fig. 1275):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Thalassiosira fallax* (?))

***Thalassiosira fluviatilis* Hustedt 1926**, p. 565; fig. 1-4 [CAS ref. 001279]

Synonym: *Thalassiosira weissflogii* (Grunow) G.A. Fryxell & Hasle 1977 [CAS ref. 004152], according to Krammer & Lange-Bertalot 1991a, p. 79

Distribution (Fig. 1276):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Thalassiosira fluviatilis* Hust., fossil)

***Thalassiosira lacustris* (Grunow) Hasle in Hasle & Fryxell 1977**, p. 40 [CAS ref. 008326]

Basionym: *Coscinodiscus lacustris* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1277):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Coscinodiscus lacustris*)
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Coscinodiscus lacustris*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Coscinodiscus lacustris*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Coscinodiscus lacustris*)
Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
 Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Coscinodiscus lacustris*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Not Specified
 Reference: Calado 1990 (as *Coscinodiscus lacustris* Grunow)

REGION: LISBOA
 Subregion: Grande Lisboa
 Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 References: Rodrigues & Moita 1979a (as *Coscinodiscus lacustris*);
 Rodrigues & Moita 1979b (as *Coscinodiscus lacustris*); Fernandes et al.
 1987 (as *Coscinodiscus lacustris*)

REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 Reference: Oliveira 1984b (as *Coscinodiscus lacustris*)
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 Reference: Oliveira & Monteiro 1995 (as *Coscinodiscus lacustris*);
 Oliveira 1996 (as *Coscinodiscus lacustris*)

Subregion: Alentejo Litoral
 Municipality: Alcácer do Sal (District: Setúbal)
 Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
 Reference: Ferreira 1986 (as *Coscinodiscus lacustris*)

Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Coscinodiscus lacustris*)
 Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Coscinodiscus lacustris* Grun.); Fernandes et al.
 1987 (as *Coscinodiscus lacustris*)
 Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Coscinodiscus lacustris* Grun.); Fernandes et al.
 1987 (as *Coscinodiscus lacustris*)

Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*); Oliveira et al. 1989 (as *Coscinodiscus lacustris*)
Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
Municipality: Rio Maior (District: Santarém)
Site: Not Specified
Reference: Silva 1946b (as *Coscinodiscus lacustris* Grun., fossil)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Coscinodiscus lacustris*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Coscinodiscus lacustris*)

***Thalassiosira nana* Lohmann 1908**, p. 242; pl. 17, fig. 2 [CAS ref. 002761]

Distribution (Fig. 1278):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Thalassiosira nana*)

***Thalassiosira pseudonana* Hasle & Heimdal 1970**, p. 565; pl. 5, fig. 27-33, pl. 6, fig. 34-38 [CAS ref. 006546]

Distribution (Fig. 1279):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Thalassiosira pseudonana* Hasle & Heimdal)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Thalassiosira pseudonana* Hasle & Heimdal)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida & Gil 2001 (as *Thalassiosira pseudonana* Hasle & Heimdal)

***Thalassiosira visurgis* Hustedt 1957**, p. 207; pl. 1, fig. 1-4 [CAS ref. 000532]

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Thalassiosira visurgis* Hustedt)

***Thalassiosira weissflogii* (Grunow) G.A. Fryxell & Hasle 1977**, p. 68, 60-72; fig. 1-15 [CAS ref. 004152]

Basionym: *Micropodiscus weissflogii* Grunow in Van Heurck 1882-1885 [CAS ref. 000896]

Synonym: *Thalassiosira fluviatilis* Hustedt 1926 [CAS ref. 001279], according to Krammer & Lange-Bertalot 1991a, p. 79

Distribution (Fig. 1280):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Thalassiosira weisflogii* Grunow)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Thalassiosira weisflogii*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)
 Municipality: Not Specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Thalassiosira weisflogii* Grunow)
 Subregion: Not Specified

Municipality: Not Specified
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Thalassiosira weisflogii* (Grunow)
Fryxell & Hasle)
Site: Not Specified
Reference: Calado 1990 (as *Thalassiosira weissflogii* Grunow); Almeida
& Gil 2001 (as *Thalassiosira weisflogii* (Grunow) Fryxell & Hasle)

***Thalassiosira* sp.**

Distribution (Fig. 1281):

REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Thalassiosira* spp.)

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Thalassiosira* sp. (?))
Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Thalassiosira* sp.)

***Tryblionella* W. Smith 1853, p. 35**
[CAS ref. 000863]

***Tryblionella angustata* W. Smith 1853, p. 36; pl. 30, fig. 262 [CAS
ref. 000863]**

Nomenclatural synonym: *Nitzschia angustata* (W. Smith) Grunow 1880 [CAS ref.
009613]

Distribution (Fig. 1282):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Tryblionella angustata* Sm.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Tryblionella angustata* W. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Funchal (Madeira Island)
Site: Funchal
Reference: Tempère & Peragallo 1907-1915 (as *Nitzschia angustata* Grun.)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia angustata* Grunow)

***Tryblionella apiculata* W. Gregory 1857b**, p. 79; pl. 1, fig. 43 [CAS ref. 002719]

Basionym: *Nitzschia apiculata* (W. Gregory) Grunow 1878 [CAS ref. 000439]

Distribution (Fig. 1283):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia apiculata* (Greg.) Grunow)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia apiculata* (Greg.) Grunow)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia apiculata* (Greg.) Grunow)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Nitzschia apiculata*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Nitzschia apiculata*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia apiculata*)
Subregion: Not Specified
Municipality: Not Specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia apiculata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Nitzschia apiculata* (Greg.) Grun.);
Bourrelly & Manguin 1946a (as *Nitzschia apiculata* (Greg.) Grun.)
Municipality: Not Specified
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Tryblionella apiculata* Gregory)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)
Site: Ponte do Espírito Santo
Reference: Zimmermann 1910-1911 (as *Nitzschia apiculata* (Greg.) Grun.)
Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (as *Nitzschia apiculata* (Greg.) Grun.)

***Tryblionella calida* (Grunow in Cleve & Grunow) D.G. Mann in Round, Crawford & Mann 1990**, p. 678 [CAS ref. 003245]

Basionym: *Nitzschia calida* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1284):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia calida* Grunow)

Municipality: Águeda (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia calida* Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia calida* Grunow)

***Tryblionella compressa* (Bailey) Poulin in Poulin et al. 1990**, p. 96; fig. 98 [CAS ref. 008670]

Basionym: *Pyxidicula compressa* J.W. Bailey 1851 [CAS ref. 000119]

Nomenclatural synonym: *Nitzschia compressa* (J.W. Bailey) C.S. Boyer 1916 [CAS ref. 000152]

Synonym: *Tryblionella punctata* W. Smith 1853 [CAS ref. 000863], according to Krammer & Lange-Bertalot 1988, p. 46

Distribution:

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Nitzschia compressa* (Bailey) Boyer)

***Tryblionella constricta* (Kützing) Poulin in Poulin et al. 1990**, p. 96; fig. 107-108 [CAS ref. 008670]

Basionym: *Synedra constricta* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Nitzschia constricta* (Kützing) Ralfs in Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 1285):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia constricta* (Kützing) Ralfs)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia constricta* (Kützing) Ralfs)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia constricta* (Kützing) Ralfs)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia constricta* (?))

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Almeida 1998 (as *Nitzschia constricta* (Kützing) Ralfs)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia constricta* (Kützing) Ralfs)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia constricta* (?))

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia constricta* (Kützing) Ralfs)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia constricta* (Kützing) Ralfs)

***Tryblionella debilis* Arnott ex O'Meara 1873**, p. 310 [CAS ref. 002531]

Nomenclatural synonyms: *Nitzschia debilis* (Arnott in O'Meara) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]
Nitzschia tryblionella var. *debilis* (Arnott) Hustedt 1913 [CAS ref. 002459]

Distribution (Fig. 1286):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia tryblionella* (Hantz.) v. *debilis* (Arnott) Mayer)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia tryblionella* (Hantz.) v. *debilis* (Arnott) Mayer)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Nitzschia tryblionella* v. *debilis* (Arnott) Mayer)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia tryblionella* (Hantz.) v. *debilis* (Arnott) Mayer)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia tryblionella* (Hantz.) v. *debilis* (Arnott) Mayer)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer); Bourrelly & Manguin 1946a (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer)
 Site: Lagoinha, Fajãzinha
 Reference: Bourrelly & Manguin 1946a (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer)
 Municipality: Povoação (São Miguel Island)
 Site: Pico da Vara
 References: Manguin 1942 (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer); Bourrelly & Manguin 1946a (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer)
 Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Comprida

Reference: Manguin 1942 (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Nitzschia debilis*)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer); Bourrelly & Manguin 1946a (as *Nitzschia triblionella* Hantz. var. *debilis* (Arn.) A. Mayer)
Municipality: Not Specified
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Nitzschia debilis* (Arnott) Grunow)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Nitzschia debilis* (Arnott) Grunow)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia debilis* (Arnott) Grunow)
Site: Not Specified
Reference: Gonçalves 2008 (as *Nitzschia debilis* (Arnott) Grunow)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: INAG I.P. 2008 (as *Nitzschia debilis* (Arnott) Grunow in Cl. & Grunow)

***Tryblionella gracilis* W. Smith 1853**, p. 35; pl. 10, fig. 75 [CAS ref. 000863]

Nomenclatural synonym: *Nitzschia tryblionella* Hantzsch in Rabenhorst 1848-1860 [CAS ref. 000771]

Distribution (Fig. 1287):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia tryblionella* Hantzsch)
Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia tryblionella* Hantzsch)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Nitzschia tryblionella* Hantzsch)

- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantz.)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantz.)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia tryblionella* Hantzsch)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia tryblionella* Hantzsch)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantz.)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantz.)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia tryblionella* Hantzsch)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia tryblionella* Hantzsch)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia tryblionella* Hantzsch)
- Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Nitzschia tryblionella*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantz.)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantz.)
- Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Cabeçadas et al. 1980 (as *Nitzschia tryblionella*); Brito & Andrade 1992 (as *Nitzschia tryblionella*)
- Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Nitzschia tryblionella*)
- Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)

Reference: Oliveira 1982b (as *Nitzschia tryblionella*)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
Reference: Calado 1990 (as *Nitzschia tryblionella* Hantzsch)

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Not Specified
Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Nitzschia tryblionella*)
Subregion: Alto Alentejo
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990a (as *Nitzschia tryblionella*)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia tryblionella* (?))
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia tryblionella*)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not Specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Nitzschia tryblionella* Hantzsch)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Nitzschia tryblionella* Hantzsch)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia tryblionella* Hantzsch)

***Tryblionella granulata* (Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 678 [CAS ref. 003245]**

Basionym: *Nitzschia granulata* Grunow 1880 [CAS ref. 009613]

Distribution (Fig. 1288):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia granulata* Grunow)

Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Nitzschia granulata* Grunow)
Municipality: Anadia (District: Aveiro)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia granulata*)

***Tryblionella hungarica* (Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 678 [CAS ref. 003245]**

Basionym: *Nitzschia hungarica* Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 1289):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)
Site: Ui River (Vouga Basin)
Reference: Resende et al. 2009 (as *Nitzschia hungarica* Grunow)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Nitzschia hungarica* Grunow)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)
Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Nitzschia hungarica*); Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia hungarica*); Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Municipality: Not Specified

Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Nitzschia hungarica* Grunow)

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

Subregion: Not Specified

Municipality: Not Specified
Site: Vouga Basin
Reference: Almeida & Gil 2000 (as *Nitzschia hungarica* Grunow)

Site: Not Specified
Reference: Almeida & Gil 2001 (as *Nitzschia hungarica* Grunow)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia hungarica* Grunow)

Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Nitzschia hungarica* Grunow)

Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Nitzschia hungarica*)

Subregion: Lezíria do Tejo

Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not Specified

References: Manguin 1942 (as *Nitzschia hungarica* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia hungarica* Grun.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Krammer & Lange-Bertalot 1988 (as *Nitzschia hungarica* Grunow)

***Tryblionella levidensis* W. Smith 1856, p. 89 [CAS ref. 001007]**

Nomenclatural synonyms: *Nitzschia tryblionella* var. *levidensis* (W. Smith) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nitzschia levidensis (W. Smith) Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 1290):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia levidensis* (W. Smith) Grunow); Santos et al. 2002 (as *Nitzschia tryblionella* var. *levidensis* (W. Smith) Grunow)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia levidensis* (W. Smith) Grunow)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*);
Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)
Site: Not Specified
References: Manguin 1942 (as *Nitzschia triblionella* Hantz. var. *levidensis* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as *Nitzschia triblionella* Hantz. var. *levidensis* (W. Sm.) Grun.)
Municipality: Not Specified
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Tryblionella laevidensis* W.M. Smith)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: INAG I.P. 2008 (as *Nitzschia levidensis* (W. Smith) Grunow in Van Heurck)

***Tryblionella littoralis* (Grunow in Cleve & Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 678 [CAS ref. 003245]**

Basionym: *Nitzschia littoralis* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: Not Specified

Reference: Gonçalves et al. 2010 (as *Tryblionella littoralis* (Grunow in Cl. & Grun.) D.G. Mann, fossil)

***Tryblionella marginata* W. Smith 1853, p. 35; pl. 10, fig. 76 [CAS ref. 000863]**

Distribution (Fig. 1291):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Tryblionella marginata* Sm.)

***Tryblionella navicularis* (Brébisson in Kützing) Ralfs in Pritchard 1861**, p. 792 [CAS ref. 001063]

Basionym: *Surirella navicularis* Brébisson in Kützing 1849 [CAS ref. 000596]

Nomenclatural synonym: *Nitzschia navicularis* (Brébisson in Kützing) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 1292):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia navicularis* (Brébisson) Grunow)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia navicularis* (Brébisson) Grunow)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia navicularis* (Brébisson) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not Specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Tryblionella navicularis* (Brébisson) Ralfs)

***Tryblionella punctata* W. Smith 1853**, p. 36; pl. 10, fig. 76 a', pl. 30, fig. 261 [CAS ref. 000863]

Nomenclatural synonym: *Nitzschia punctata* (W. Smith) Grunow 1878 [CAS ref. 000439]

Synonym: *Tryblionella compressa* (Bailey) Poulin in Poulin, Berard-Therriault, Cardinal & Hamilton 1990 [CAS ref. 008670], according to Krammer & Lange-Bertalot 1988, p. 46

Distribution (Fig. 1293):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia punctata*)

***Tryblionella scalaris* (Ehrenberg) Siver & P.B. Hamilton 2005**, p. 374 [CAS ref. 013342]

Basionym: *Synedra scalaris* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonym: *Nitzschia scalaris* (Ehrenberg) W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 1294):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia scalaris* (Ehr.) W. Smith)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia scalaris* (Ehr.) W. Smith)

***Tryblionella victoriae* Grunow 1862**, p. 553; pl. 28/12, fig. 34 [CAS ref. 000428]

Nomenclatural synonyms: *Nitzschia tryblionella* var. *victoriae* (Grunow) Grunow 1880 [CAS ref. 009613]

Nitzschia levidensis var. *victoriae* (Grunow) Cholnoky 1956 [CAS ref. 000202]

Distribution (Fig. 1295):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia trylionella* Hantzsch v. *victoriae* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia trylionella* Hantzsch v. *victoriae* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *victoriae*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow var. *victoriae* (Grunow) Cholnoky)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia trylionella* Hantzsch v. *victoriae* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Nitzschia trylionella* Hantzsch v. *victoriae* Grunow); Gil et al. 1989-1990 (as *Nitzschia tryblionella* v. *victoriae*)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *victoriae*)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

Reference: Gil et al. 1991 (as *Nitzschia tryblionella* v. *victoriae*)

***Ulnaria* (Kützing) Compère 2001, p. 100**

[CAS ref. 009463]

***Ulnaria acus* (Kützing) Aboal in Aboal et al. 2003, p. 105 [CAS ref. 012666]**

Basionym: *Synedra acus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Fragilaria ulna* var. *acus* (Kützing) Lange-Bertalot 1980a [CAS ref. 008465]

Distribution (Fig. 1296):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Bouro Reservoir, Homem River (Cávado Basin)

Reference: Nauwerck 1962 (as *Synedra acus* Kg.)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Not Specified

Reference: Zimmermann 1910 (as *Synedra acus* Kütz.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Synedra acus*)

Municipality: Melgaço (District: Viana do Castelo)

Site: Melgaço, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Synedra acus*)

Site: São Gregório, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Synedra acus*)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Synedra acus*)

Municipality: Valença (District: Viana do Castelo)

Site: Valença, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Synedra acus*)

Municipality: Not Specified

Site: Ínsua do Ranhão, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Synedra acus*)

REGION: CENTRO

- Subregion: Baixo Mondego
- Municipality: Coimbra (District: Coimbra)
 Site: Poço do Almegue
 Reference: Nauwerck 1959 (as *Synedra acus* Kütz.)
- Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Bom-Sucesso
 Reference: Nauwerck 1962 (as *Synedra acus* Kg.)
- Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Nauwerck 1962 (as *Synedra acus* Kg.)
- Municipality: Penacova (District: Coimbra)
 Site: Aguieira Reservoir, Mondego River (Mondego Basin)
 Reference: Oliveira & Monteiro 1992 (as *Synedra acus*)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Synedra acus* Kützing); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)

- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: São João de Loure, Vouga River (Vouga Basin)
- Reference: Nauwerck 1959 (as *Synedra acus* Kütz.)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
- Reference: Nunes et al. 2002 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra acus*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
- Reference: Gil & Almeida 1993 (as *Synedra acus* Kützing)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)

- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Perrães, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Synedra acus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Vila Verde, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
- Reference: Calado 1991 (as *Synedra acus* Kützing)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Mondego River (Mondego Basin)
- References: Carvalho 1913 (as *Synedra acus* Kuetz.); Santos & Carvalho 2001 (as *Synedra acus* Kuetz.)
- Subregion: Beira Interior Sul
- Municipality: Idanha-a-Nova (District: Castelo Branco)
- Site: Idanha Reservoir, Ponsul River (Tagus Basin)
- Reference: Oliveira 1982c (as *Synedra acus* kg.)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
- Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Site: Fratel, Tagus River (Tagus Basin)
- Reference: Oliveira et al. 1989 (as *Synedra acus*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Synedra acus* Kützing)
- Subregion: Médio Tejo

- Municipality: Abrantes (District: Santarém)
 Site: Tramagal, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 References: Cabeçadas et al. 1980 (as *Synedra acus*); Brito & Andrade 1992 (as *Synedra acus*)
- Municipality: Torres Novas (District: Santarém)
 Site: Casal da Pinheira, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Synedra acus* Kg.)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Synedra acus* Kg.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Coutada, Sisandro River
 Reference: Monteiro & Oliveira 1972 (as *Synedra acus*)
- Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Synedra acus*)
- Subregion: Pinhal Interior Sul
 Municipality: Mação (District: Santarém)
 Site: Pracana Reservoir, Ocreza River (Tagus Basin)
 Reference: Oliveira 1982b (as *Synedra acus*)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Covão do Vidoal Reservoir (Mondego Basin)
 References: Nauwerck 1962 (as *Synedra acus* Kg.); Santos & Carvalho 2001 (as *Synedra acus* Kuetz.)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 References: Nauwerck 1962 (as *Synedra acus* Kg.); Santos & Carvalho 2001 (as *Synedra acus* Kuetz.); Vasconcelos et al. 2001 (as *Synedra acus*); MAOT 2002 (as *Synedra acus*)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Synedra ulna* var. *acus* (Kützing) Lange-Bertalot)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Nabão River (Tagus Basin)
 Reference: Rodrigues et al. 1982 (as *Synedra acus*)
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Synedra acus*); Cerqueira da Silva et al. 1993 (as *Synedra acus*)

Site: Not Specified
Reference: Calado 1990 (as *Synedra acus* Kützing)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Synedra acus*)

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra acus*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Andrade & Brito 1995 (as *Synedra acus*); Oliveira &

Monteiro 1995 (as *Synedra acus*); Oliveira 1996 (as *Synedra acus*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Synedra acus* Kützing)

Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)

Reference: Nauwerck 1962 (as *Synedra acus* Kg.)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Synedra acus*)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra acus*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra acus*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Synedra acus* Kz.); Fernandes et al. 1987 (as *Synedra acus*)
 Site: Poio Reservoir, Nisa Stream (Tagus Basin)
 Reference: Nauwerck 1962 (as *Synedra acus* Kg.)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Synedra acus*)
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Roxo Reservoir, Roxo Stream (Sado Basin)
 Reference: Oliveira 1976 (as *Synedra acus* Kg.)
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Synedra acus*)
 Municipality: Ferreira do Alentejo (District: Beja)
 Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Synedra acus*)
 Municipality: Ourique (District: Beja)
 Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
 Reference: Oliveira 1984a (as *Synedra acus*)
 Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra acus*)
 Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra acus*)
 Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 References: Nauwerck 1962 (as *Synedra acus* Kg.); Oliveira 1984a (as *Synedra acus*)
 Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra acus*)
 Subregion: Not Specified
 Municipality: Not Specified
 Site: Guadiana River (Guadiana Basin)
 Reference: Oliveira 1991 (as *Synedra acus*)
 Site: Rocha da Galé, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Synedra acus*)
 REGION: ALGARVE
 Subregion: Algarve
 Municipality: Silves (District: Faro)
 Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Synedra acus*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Synedra acus* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Synedra acus* Kütz.)

Site: Lagoa Pequena

Reference: Holmboe 1901 (as *Synedra acus* Kütz.)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Synedra acus*)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Holmboe 1901 (as *Synedra acus* Kütz.); Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.); Mölder 1947 (as *Synedra acus* Kütz.); Rodrigues et al. 1995 (as *Synedra acus*)

Site: Ribeira Quente

References: Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.)

Site: São Jorge Island

Reference: Johansson 1977 (as *Synedra acus* Kütz.)

Site: Not Specified

References: Gonçalves 2008 (as *Fragilaria cf. ulna* var. *acus* (Kützing) Lange-Bertalot); Gonçalves 2008 (as *Synedra acus* Kützing)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Synedra acus*)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kütz.) Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kütz.) Lange-Bertalot)

***Ulnaria biceps* (Kützing) Compère 2001**, p. 100 [CAS ref. 009463]

Basionym: *Synedra biceps* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Synedra ulna* var. *biceps* (Kützing) Schönfeldt 1913 [CAS ref. 001856]

Fragilaria biceps (Kützing) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 1297):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Caldas do Gerês, Vilar da Veiga, Gerês River (Cávado Basin)

Reference: González-Guerrero 1949 (as *Synedra ulna* (Nitzsch.) Ehr. var. *biceps* (Kütz.))

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Synedra ulna* var. *biceps* (Kütz.) Hust.)

Municipality: Porto (District: Porto)

Site: Prelada

Reference: Silva 1950b (as *Synedra ulna* var. *biceps* (Kütz.) Hust.)

Site: Requezende

Reference: Silva 1950b (as *Synedra ulna* var. *biceps* (Kütz.) Hust.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Synedra ulna* var. *biceps* (Kützing) Kirchner)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Synedra ulna* var. *biceps* (Kützing) Kirchner)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da M6 Stream (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

References: Nunes et al. 2002 (as *Fragilaria biceps* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot);

Ferreira da Silva et al. 2009 (as *Fragilaria biceps* (Kütz.) Lange-Bertalot)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)

- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Synedra ulna v. biceps* (Kützing) V. Schonfeldt)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)
- Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)
- Subregion: Médio Tejo
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (*Synedra ulna* Var. *biceps* (Kg) v. Schiönp)
- Municipality: Torres Novas (District: Santarém)
Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* v. *biceps* (Kützing) V. Schonfeldt)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Coutada, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Synedra ulna* var. *biceps*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Synedra ulna* var. *biceps* (Kützing) Kirchner)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Synedra ulna* v. *biceps* (Kützing) V. Schonfeldt); Gil et al. 1991 (as *Synedra ulna* v. *biceps*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Synedra ulna* var. *biceps*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Synedra ulna* v. *biceps*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Synedra ulna* v. *biceps*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação

Site: Lagoa das Furnas

References: Manguin 1942 (as *Synedra ulna* v. *biceps* (Kützing) V. Schonfeldt); Bourrelly & Manguin 1946a (as *Synedra ulna* v. *biceps* (Kützing) V. Schonfeldt)

Municipality: Not Specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Ulnaria biceps* (Kützing) P. Compère)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Ulnaria biceps* (Kützing) P. Compère)

Site: Not Specified

Reference: Gonçalves 2008 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

***Ulnaria capitata* (Ehrenberg) Compère 2001**, p. 100 [CAS ref. 009463]

Basionym: *Synedra capitata* Ehrenberg 1836c [CAS ref. 001171]

Synonym: *Fragilaria dilatata* (Brébisson) Lange-Bertalot 1993 [CAS ref. 008467], according to Krammer & Lange-Bertalot 1991a, p. 147

Distribution (Fig. 1298):

REGION: NORTE

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Synedra capitata* Ehr.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Synedra capitata* Ehrnb. em. Hust.)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Nauwerck 1962 (as *Synedra capitata* E. em. Hust.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Municipality: Not Specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra capitata* Ehrenberg)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)

Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra capitata*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra capitata* Ehr.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra capitata* Ehr.)
Subregion: Not Specified
Municipality: Not Specified
Site: Not Specified
References: Calado 1990 (as *Synedra capitata* Ehrenberg); Gil et al. 1991
(as *Synedra capitata*)

***Ulnaria contracta* (Østrup) E. Morales & Vis 2007**, p. 125 [CAS ref. 012982]

Basionym: *Synedra ulna* var. *contracta* Østrup 1901 [CAS ref. 012982]

Distribution (Fig. 1299):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra ulna contracta*)

***Ulnaria lanceolata* (Kützing) Compère 2001**, p. 100 [CAS ref. 009463]

Basionym: *Synedra lanceolata* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Synedra ulna* var. *lanceolata* (Kützing) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1300):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1906 (as *Synedra ulna* var. *lanceolata* (Kuetz.) Grun.)

***Ulnaria oxyrhynchus* (Kützing) Aboal in Aboal et al. 2003, p. 110**
[CAS ref. 012666]

Basionym: *Synedra oxyrhynchus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot in Krammer & Lange-Bertalot 1991a [CAS ref. 006521]

Distribution (Fig. 1301):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)

- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Viadouros, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfarazes
- Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr. var. *oxyrhynchus* (Kuetz.))
- Site: Cubo
- Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr. var. *oxyrhynchus* (Kuetz.))
- Site: Diz River
- Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr. var. *oxyrhynchus* (Kuetz.))
- Site: Mondego River (Mondego Basin)
- References: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr. var. *oxyrhynchus* (Kuetz.)); Santos & Carvalho 2001 (as *Synedra ulna* (Nitzsch.) Ehr. var. *oxyrhynchus* (Kuetz.))
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Subregion: Médio Tejo
- Municipality: Torres Novas (District: Santarém)
- Site: Almonda River (Tagus Basin)
- Reference: Oliveira & Caldas 1970 (*Synedra ulna* var. *oxyrhynchus* (Kg.) V.H.)
- Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* var. *oxyrhynchus* (Kg.) v. H.)~

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Synedra ulna* var. *oxyrhynchus* (Kützing) Van Heurck)

Subregion: Not Specified

Municipality: Not Specified

Site: Not Specified

References: Calado 1990 (as *Synedra ulna* Ehr. var. *oxyrhynchus* (Kützing) van Heurck); Gil et al. 1991 (as *Synedra ulna* v. *oxyrhynchus*); Almeida & Gil 2001 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.)

Municipality: Not Specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Ulnaria oxyrhynchus* (Kützing) Aboal)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*))

***Ulnaria ulna* (Nitzsch) Compère 2001**, p. 100 [CAS ref. 009463]

Basionym: *Bacillaria ulna* Nitzsch 1817 [CAS ref. 000684]

Nomenclatural synonyms: *Synedra ulna* (Nitzsch) Ehrenberg 1832b [CAS ref. 000282]

Fragilaria ulna (Nitzsch) Lange-Bertalot 1980a [CAS ref. 008465]

Distribution (Fig. 1302):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Synedra ulna*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Synedra ulna*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Synedra ulna*)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Municipality: Not Specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot);
Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot);
Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)

Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Subregion: Grande Porto
 Municipality: Gondomar (District: Porto)
 Site: Gramido
 Reference: Silva 1950b (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Porto (District: Porto)
 Site: Not Specified
 Reference: Colmeiro 1889 (as *Synedra ulna* Ehrenb.)

Site: Prelada
 Reference: Silva 1950b (as *Synedra ulna* (Nitzsch) Ehr.)

Site: Requezende
 Reference: Silva 1950b (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Synedra ulna*)

Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Seixas, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)

Municipality: Melgaço (District: Viana do Castelo)
 Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)

Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)

Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)

Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: Alhada, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Synedra ulna*)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
 Site: Barragem de Covas, Coura River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)

Municipality: Not Specified
 Site: Ínsua do Ranhão, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)

Site: Minho River, international section (Minho Basin)
 Reference: Vasconcelos & Cerqueira 2001 (as *Fragilaria ulna*)

Subregion: Tâmega
 Municipality: Marco de Canavezes (District: Porto)
 Site: Torrão Reservoir, Tâmega River (Douro Basin)
 Reference: Branco & Guimarães 1991 (as *Synedra ulna*)

Subregion: Not Specified
 Municipality: Not Specified

Site: Ave River (Ave Basin)
Reference: Cerqueira da Silva 1991 (as *Synedra ulna*)
Site: Neiva River (Neiva Basin)
Reference: Cerqueira da Silva & Cunha 1992 (as *Synedra ulna*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Not Specified
Reference: Colmeiro 1889 (as *Synedra ulna* Ehrenb.)

Site: Coimbra
Reference: De Toni 1887 (as *Synedra ulna* Ehrenberg)

Site: Poço do Almegue
Reference: Nauwerck 1959 (as *Synedra ulna* (Nitzsch) Ehrnb)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Bom-Sucesso
Reference: Nauwerck 1962 (as *Synedra ulna* (Nitzsch.) E.)

Site: Lagoa da Vela, Quiaios
Reference: de Figueiredo et al. 2006 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira
Reference: Oliveira 1971a (as *Synedra ulna*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Site: Tentúgal, Olho da Ribeira dos Moinhos
Reference: Nauwerck 1959 (as *Synedra ulna* (Nitzsch) Ehrnb.)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)

Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)

- Reference: Nunes et al. 2003 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- References: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Synedra ulna*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
- Reference: Gil & Almeida 1993 (as *Synedra ulna* Ehrenberg)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)

- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Synedra ulna*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Silva Escura (Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Not Specified
- Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfrazes
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Cubo
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Diz River
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Synedra ulna* Ehrenberg); Santos & Carvalho 2001 (as *Synedra ulna* (Nitzsch.) Ehr.)

- Site: Nueme
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Porto da Carne
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Vela
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Synedra ulna* Ehrenberg)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Sobral do Campo
Reference: Zimmermann 1906 (as *Synedra ulna* (Nitzsch) Ehr.)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
- Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra ulna*)
- Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Synedra ulna*)
- Subregion: Cova da Beira
- Municipality: Fundão (District: Castelo Branco)
- Site: Alpedrinha
Reference: Zimmermann 1906 (as *Synedra ulna* (Nitzsch) Ehr.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehrenberg)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Synedra ulna*)
- Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Synedra ulna*)
- Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra ulna*)
- Municipality: Tomar (District: Santarém)
- Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Frade 1952 (as *Synedra ulna*); Frade 1954 (as *Synedra ulna*); Frade 1961 (as *Synedra ulna*); Cabeçadas et al. 1980 (as *Synedra ulna*); Ferreira 1986 (as *Synedra ulna*); Brito & Andrade 1992 (as *Synedra ulna*)
- Municipality: Torres Novas (District: Santarém)
- Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Casal do Feijão, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch.) Ehr.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
- Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra ulna*)
- Subregion: Oeste
- Municipality: Torres Vedras (District: Lisboa)
- Site: Coutada, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Synedra ulna*)
- Site: Runa, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Synedra ulna*)
- Site: Varatojo, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Synedra ulna*)
- Subregion: Pinhal Interior Norte
- Municipality: Arganil (District: Coimbra)
- Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Municipality: Pampilhosa da Serra (District: Coimbra)
- Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra ulna*)

Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra ulna*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra ulna*)
Subregion: Pinhal Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Synedra ulna*)
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra ulna*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
Subregion: Not Specified
Municipality: Not Specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Synedra ulna*)
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Synedra ulna*); Cerqueira da Silva et al. 1993 (as *Synedra ulna*); Cerqueira da Silva 1994 (as *Synedra ulna*)
Site: Not Specified
References: Calado 1990 (as *Synedra ulna* Ehrenberg); Gil et al. 1991 (as *Synedra ulna*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra ulna*)
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Synedra ulna* (Nitzsch.) Ehr., fossil)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)

- References: Oliveira 1984a (as *Synedra ulna*); Oliveira 1984b (as *Synedra ulna*); Oliveira 1987 (as *Synedra ulna* (Nitz.) Ehr.)
- Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Gadiana Basin)
 References: Andrade & Brito 1995 (as *Synedra ulna*); Oliveira & Monteiro 1995 (as *Synedra ulna*); Oliveira 1996 (as *Synedra ulna*)
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
 Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Synedra ulna*)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Synedra ulna* (Nitzsch) Ehrenberg)
 Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)
 Reference: Nauwerck 1962 (as *Synedra ulna* (Nitzsch.) E.)
- Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 References: Oliveira 1984a (as *Synedra ulna*); Oliveira 1987 (as *Synedra ulna* (Nitz.) Ehr.)
- Municipality: Not Specified
 Site: Sado Estuary (Sado Basin)
 Reference: Oliveira & Coutinho 1992 (as *Synedra ulna*)
 Site: Sado River (Sado Basin)
 Reference: Monteiro et al. 1995 (as *Synedra ulna*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Synedra ulna*)
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Synedra ulna* (Nitzsch) Ehr.); Fernandes et al. 1987 (as *Synedra ulna*)
- Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Synedra ulna*)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra ulna*)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 References: INIP 1977 (as *Synedra ulna* (Nitzsch) Ehr.); Fernandes et al. 1987 (as *Synedra ulna*)
- Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990a (as *Synedra ulna*)
- Subregion: Baixo Alentejo
- Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)

- Reference: Luís et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna* = *Ulnaria ulna* (Nitzsch) Compère)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna* = *Ulnaria ulna* (Nitzsch) Compère)
 Site: Roxo Reservoir, Roxo Stream (Sado Basin)
 Reference: Oliveira 1976 (as *Synedra ulna* (Nitzsch) Ehr.); Oliveira 1984a (as *Synedra ulna*)
- Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Synedra ulna*)
- Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra ulna*)
 Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Synedra ulna*)
 Municipality: Rio Maior (District: Santarém)
 Site: Not Specified
 Reference: Silva 1946b (as *Synedra ulna* (Nitzsch) Ehr., fossil)
 Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 Reference: Nauwerck 1962 (as *Synedra ulna* (Nitzsch.) E.)
 Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 References: Fernandes et al. 1987 (as *Synedra ulna*); Brito & Andrade 1992 (as *Synedra ulna*)
- Subregion: Not Specified
 Municipality: Not Specified
 Site: Guadiana River (Guadiana Basin)
 Reference: Oliveira 1991 (as *Synedra ulna*)
 Site: Rocha da Galé, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Synedra ulna*)
- REGION: ALGARVE
 Subregion: Algarve
 Municipality: Silves (District: Faro)
 Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
 Reference: Oliveira 1987 (as *Synedra ulna* (Nitz.) Ehr.)
- REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Angra do Heroísmo (Terceira Island)
 References: Trelease 1897 (as *Synedra ulna* Ehr.); Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Calheta (São Jorge Island)
 Site: Ribeira do Salto (São Jorge Island)
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Corvo (Corvo Island)
 Site: Caldeira
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Horta (Faial Island)
 Site: Not Specified
 Reference: Johansson 1977 (as *Synedra ulna* (Nitzsch.) Ehr.)

Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 Reference: Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoinha, Fajãzinha
 Reference: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoa Grande
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoa das Sete Cidades
 References: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.); Oliveira 1989 (as *Synedra ulna*)

Municipality: Povoação (São Miguel Island)
 Site: Ferruginous springs, Furnas
 Reference: Chaves 1908 (as *Synedra ulna* Ehr.)
 Site: Furnas
 References: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
 Reference: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoa das Furnas
 References: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.); Chaves 1908 (as *Synedra ulna* Ehr.); Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.); Gonçalves 1997 (as *Fragilaria ulna*); Gonçalves & Rodrigues 1999 (as *Fragilaria ulna*)
 Site: Pico do Gafanhoto
 Reference: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Pico da Vara
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Ribeira Quente
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)

Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Synedra ulna* Ehr., fossil)
 Site: Tambores, Furnas
 Reference: Chaves 1908 (as *Synedra ulna* Ehr., fossil)
 Municipality: Santa Cruz das Flores (Flores Island)
 Site: Ribeira Grande
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Not Specified
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Municipality: Vila Franca do Campo (São Miguel Island)
 Site: Lagoa do Congro
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
 Municipality: Vila do Porto (Santa Maria Island)
 Site: Not Specified
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
 Municipality: Not Specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
 Site: Faial Island
 Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
 Site: Lagoa de Cazador (São Miguel Island)
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Santa Maria Island
 Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
 Site: São Jorge Island
 References: Johansson 1977 (as *Synedra ulna* (Nitzsch.) Ehr.); Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
 Site: Terceira Island
 Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
 Site: Not Specified
 Reference: Gonçalves 2008 (as *Synedra ulna* var. *ulna* (Nitzsch) Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
 Site: Caminho do Meio
 Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Ribeira de João Gomes

Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Levada do Bom Sucesso
 Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch.) Ehr.)
 Site: Ribeiro Frio
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Santa Luzia Stream
 Reference: Zimmermann 1909a
 Site: São João Stream
 Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Sítio da Pena
 Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Tanque dos Estanquinhos
 Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch.) Ehr.)
 Municipality: Ponta do Sol (Madeira Island)
 Site: Rabaçal (Madeira Island)
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Municipality: Porto Santo (Porto Santo Island)
 Site: Serra de Dentro Stream
 Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch) Ehr.)
 Municipality: Ribeira Brava (Madeira Island)
 Site: Pico Stream, Serra da Ribeira Brava
 Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Ribeira Brava
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Sítio da Chamorra, Campanário
 Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
 Municipality: Santa Cruz (Madeira Island)
 Site: Fonte do Mestre Henrique, Caniço
 Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
 Municipality: Santana (Madeira Island)
 Site: São Roque do Faial
 Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)

REGION: Not Specified

Subregion: Not Specified

Municipality: Not Specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Synedra ulna*)

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Synedra ulna*)

Site: Not Specified

Reference: INAG I.P. 2008 (as *Fragilaria ulna* (Nitzsch.) Lange-Bertalot var. *ulna*)

***Ulnaria ulna* var. *aequalis* (Kützing) Aboal in Aboal et al. 2003, p. 112 [CAS ref. 012666]**

Basionym: *Frustulia aequalis* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonym: *Synedra ulna* var. *aequalis* (Kützing) Hustedt 1930, p. 152 [CAS ref. 000502]

Distribution (Fig. 1303):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Synedra ulna* var. *aequalis* Ehr.)

Site: Pico da Vara

References: Manguin 1942 (as *Synedra ulna* var. *aequalis* (Kütz.) Hust.);

Bourrelly & Manguin 1946a (as *Synedra ulna* var. *aequalis* (Kütz.) Hust.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Synedra ulna* var. *aequalis* Ehr., fossil)

***Ulnaria ulna* var. *amphirhynchus* (Ehrenberg) Aboal in Aboal et al. 2003, p. 113 [CAS ref. 012666]**

Basionym: *Synedra amphirhynchus* Ehrenberg 1843a [CAS ref. 000294]

Nomenclatural synonyms: *Synedra ulna* var. *amphirhynchus* (Ehrenberg) Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 1304):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

- Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)
- Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (*Synedra ulna* Var. *amphirhynchus*
(E) Grun)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Synedra ulna* (Nitzsch.) Ehr. v.
amphirhynchus (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Synedra*
ulna (Nitzsch.) Ehr. v. *amphirhynchus* (Ehr.) Grun.)
Municipality: Not Specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Ulnaria amphirhynchus* (Ehrenberg)
Compère & Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Schodduyn 1927 (as *Synedra ulna* (Nitzsch.) Ehr. v.
amphirhynchus Ehr.?)

***Ulnaria ulna* var. *spathulifera* (Grunow) Aboal in Aboal et al.
2003, p. 114 [CAS ref. 012666]**

Basionym: *Synedra spathulifera* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonyms: *Synedra ulna* var. *spathulifera* (Grunow) Grunow in
Van Heurck 1885 [CAS ref. 001040]
Fragilaria ulna var. *spathulifera* (Grunow) Main 1988 [CAS ref. 003413]

Distribution (Fig. 1305):

REGION: NORTE

Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Synedra ulna* var. *spathulifera* Grun.)

REGION: CENTRO

Subregion: Médio Tejo
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (*Synedra ulna* var. *spathulifera* Grun)
Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* var. *spathulifera* Grun.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* var. *spathulifera* Grun.)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Not Specified

Reference: Zimmermann 1909b (as *Synedra ulna* (Nitzsch) Ehr. var. *spathulifera* Grun.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Synedra ulna* var. *spatuliphera*)

***Ulnaria ulna* var. *splendens* (Kützing) Aboal in Aboal et al. 2003,**
p. 114 [CAS ref. 012666]

Basionym: *Frustulia splendens* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonyms: *Synedra splendens* Kützing 1844 [CAS ref. 000595]

Synedra ulna var. *splendens* (Kützing) Kirchner 1878 [CAS ref. 000561]

Distribution (Fig. 1306):

REGION: NORTE

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Leça

References: Colmeiro 1889 (as *Synedra splendens* Kg.); Zimmermann

1914 (as *Synedra ulna* (Nitzsch) Ehr. var. *splendens* (Kuetz) Brun)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1914 (as *Synedra ulna* (Nitzsch) Ehr. var. *splendens* (Kuetz) Brun)

Site: Not Specified

Reference: Colmeiro 1889 (as *Synedra splendens* Kg.)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *splendens* (Kuetz.)); Santos & Carvalho 2001 (as *Synedra Ulna* (Nitzsch) Ehr. var. *splendens* (Kuetz.))

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Synedra splendens* Ktz., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Synedra splendens* Ktz., fossil)

***Ulnaria ulna* var. *subaequalis* (Grunow) Aboal in Aboal et al. 2003, p. 114 [CAS ref. 012666]**

Basionym: *Synedra subaequalis* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonym: *Synedra ulna* var. *subaequalis* (Grunow) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 1307):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *subaequalis* (Grun.)); Santos & Carvalho 2001 (as *Synedra ulna* (Nitzsch) Ehr. var. *subaequalis* (Grun.))

***Urosolenia* Round & R.M. Crawford in Round, Crawford & Mann 1990, pg. 679 [CAS ref. 003245]**

***Urosolenia eriensis* (H.L. Smith) Round & R.M. Crawford in Round, Crawford & Mann 1990, p. 679 [CAS ref. 003245]**

Basionym: *Rhizosolenia eriensis* H.L. Smith 1872 [CAS ref. 002575]

Distribution (Fig. 1308):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Rhizosolenia eriensis*)

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Bouro Reservoir, Homem River (Cávado Basin)

Reference: Nauwerck 1962 (as *Rhizosolenia eriensis* H. L. Smith)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra Reservoir, Mondego River (Mondego Basin)

Reference: Craveiro & Santos 1997 (as *Rhizosolenia eriensis* H.L. Smith)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Nauwerck 1962 (as *Rhizosolenia eriensis* H. L. Smith); Frade

1963 (as *Rhizosolenia eriensis* H. L. Smith)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Rhizosolenia eriensis*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Rhizosolenia eriensis*)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Rhizosolenia eriensis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Rhizosolenia eriensis* H. L. Smith)

Municipality: Not Specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F. E. Round & R. M. Crawford)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F. E. Round & R. M. Crawford)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F. E. Round & R. M. Crawford)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F. E. Round & R. M. Crawford)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F. E. Round & R. M. Crawford)
Site: Not Specified
Reference: Gonçalves 2008 (as *Urosolenia eriensis* (H.L. Smith) F.E. Round & R.M. Crawford)

REGION: Not Specified
Subregion: Not Specified
Municipality: Not Specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Rhizosolenia eriensis*)

***Urosolenia longiseta* (Zacharias) Edlund & Stoermer 1993**, v. 9(1):
p. 59; pl. 1, fig. 5-6 [CAS ref. 008185]

Basionym: *Rhizosolenia longiseta* Zacharias 1893 [CAS ref. 002617]

Distribution (Fig. 1309):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra Reservoir, Mondego River (Mondego Basin)
Reference: Craveiro & Santos 1997 (as *Rhizosolenia longiseta* Zacharias)

REGION: LISBOA
Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Lagoa de Albufeira
Reference: Nauwerck 1962 (as *Rhizosolenia longiseta* Zacharias)

***Vanheurckia* Brébisson 1868**, p. 201
[CAS ref. 001107]

Vanheurckia vulgaris var. *minor* Tempère & Peragallo 1914, p. 459; No. 940 [CAS ref. 001070]

Distribution (Fig. 1310):

REGION: NORTE

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Van Heurckia vulgaris* v. *minor*)

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<i>Navicula neglecta</i> Krasske	1462

<i>Navicula neoventricosa</i> Hustedt	902, 1024
<i>Navicula nitescens</i> (W. Gregory) Ralfs	405
<i>Navicula nivalis</i> Ehrenberg	901
<i>Navicula nobilis</i> Ehrenberg	1404
<i>Navicula nobilis</i> var. <i>dactylus</i> (Ehrenberg) Van Heurck	1348
<i>Navicula nobilis</i> var. <i>gentiles</i> (Donkin) Van Heurck	1356
<i>Navicula nodosa</i> Ehrenberg	1403
<i>Navicula notha</i> J.H. Wallace	1024
<i>Navicula novaesiberica</i> Lange-Bertalot	1025
<i>Navicula nyassensis</i> O. Müller	1550
<i>Navicula oblonga</i> (Kützing) Kützing	1025
<i>Navicula oblongella</i> Nägeli	405
<i>Navicula obsoleta</i> Hustedt	1026
<i>Navicula oculata</i> Brébisson	407
<i>Navicula oligotrappenta</i> Lange-Bertalot & G. Hofmann	1026
<i>Navicula palpebralis</i> Brébisson	1026
<i>Navicula paramutica</i> W. Bock	902
<i>Navicula parvula</i> Ralfs	1027
<i>Navicula pelliculosa</i> (Kützing) Hilse	604
<i>Navicula peregrina</i> (Ehrenberg) Kützing	1027
<i>Navicula peregrina</i> var. <i>meniscus</i> (Schumann) Grunow	1027
<i>Navicula permitis</i> Hustedt	913
<i>Navicula perpusilla</i> Grunow	374
<i>Navicula persica</i> Rabenhorst	1028
<i>Navicula peterseni</i> Hustedt	1028
<i>Navicula petersii</i> (Ehrenberg) Kützing	1029
<i>Navicula phyllepta</i> Kützing	1029
<i>Navicula placentula</i> (Ehrenberg) Kützing	1462
<i>Navicula placentula</i> var. <i>apiculata</i> Hustedt	1031
<i>Navicula polyonca</i> Brébisson	1404
<i>Navicula porifera</i> Hustedt	1464
<i>Navicula producta</i> W. Smith	1130
<i>Navicula protracta</i> (Grunow) Cleve	1314
<i>Navicula protracta</i> f. <i>subcapitata</i> (Wislouch & V.S. Poretsky) Hustedt	1314
<i>Navicula pseudanglica</i> Lange-Bertalot	1451
<i>Navicula pseudoarvensis</i> Hustedt	1031
<i>Navicula pseudobryophila</i> Hustedt	1031
<i>Navicula pseudonivalis</i> W. Bock	1032
<i>Navicula pseudoventralis</i> Hustedt	1032
<i>Navicula puella</i> Schumann	411
<i>Navicula pupula</i> f. <i>capitata</i> (Hustedt) Hustedt	1032
<i>Navicula pupula</i> f. <i>minuta</i> Grunow	1033
<i>Navicula pupula</i> Kützing	1551
<i>Navicula pupula</i> var. <i>capitata</i> Hustedt	1032

<i>Navicula pupula</i> var. <i>elliptica</i> Hustedt	1547
<i>Navicula pupula</i> var. <i>genuina</i> Cleve & Grunow	1032
<i>Navicula pupula</i> var. <i>rectangularis</i> (W. Gregory) Cleve & Grunow	1558
<i>Navicula pupula</i> var. <i>rostrata</i> Hustedt	1560
<i>Navicula pusilla</i> W. Smith	250
<i>Navicula pygmaea</i> Kützing	601
<i>Navicula quadrifasciata</i> Ehrenberg	1406
<i>Navicula rabenhorstii</i> Grunow	1406
<i>Navicula radiosa</i> f. <i>intermedia</i> Manguin	1044
<i>Navicula radiosa</i> Kützing	1033
<i>Navicula radiosa</i> var. <i>acuta</i> (W. Smith) Grunow	1041
<i>Navicula radiosa</i> var. <i>tenella</i> (Brébisson ex Kützing) Van Heurck	978, 1042
<i>Navicula radiosafallax</i> Lange-Bertalot	1044
<i>Navicula recens</i> (Lange-Bertalot) Lange-Bertalot	1045
<i>Navicula reichardtiana</i> Lange-Bertalot	1046
<i>Navicula reichardtiana</i> var. <i>crassa</i> Lange-Bertalot & G. Hofmann	950
<i>Navicula rhomboides</i> Ehrenberg	681
<i>Navicula rhomboides</i> var. <i>amphipleuroides</i> Grunow	687
<i>Navicula rhynchocephala</i> Kützing	1047
<i>Navicula rhynchocephala</i> var. <i>dubia</i> Grunow	1054
<i>Navicula rhynchocephala</i> var. <i>elongata</i> Grunow	1054
<i>Navicula rhynchocephala</i> var. <i>rostellata</i> (Kützing) Cleve & Grunow	1054
<i>Navicula riparia</i> Hustedt	264
<i>Navicula rostellata</i> Kützing	1054
<i>Navicula rotaeana</i> (Rabenhorst) Grunow	1058
<i>Navicula rotaeana</i> f. <i>minor tenuistriata</i> Grunow	1059
<i>Navicula rotaeana</i> var. <i>oblongella</i> Grunow	1059
<i>Navicula rotunda</i> Hustedt	1060
<i>Navicula rupestris</i> O'Meara	1408, 1060
<i>Navicula ruttneri</i> Hustedt	465
<i>Navicula salinarum</i> Grunow	1060
<i>Navicula salinarum</i> var. <i>rostrata</i> (Hustedt) Lange-Bertalot	1061
<i>Navicula saprophila</i> Lange-Bertalot & Bonik	605
<i>Navicula shadei</i> Krasske	988, 1061
<i>Navicula schoenfeldii</i> Hustedt	711
<i>Navicula schroeteri</i> F. Meister	1062, 1065
<i>Navicula schroeteri</i> var. <i>symmetrica</i> (R.M. Patrick) Lange-Bertalot	1062
<i>Navicula schumanniana</i> Grunow	194
<i>Navicula sculpta</i> Ehrenberg	110
<i>Navicula scutiformis</i> Grunow	208
<i>Navicula seminulum</i> Grunow	1561
<i>Navicula seriens</i> Brébisson	1064
<i>Navicula seriens</i> var. <i>minima</i> Grunow	1064
<i>Navicula seriens</i> var. <i>thermalis</i> Grunow	168

<i>Navicula silicula</i> Ehrenberg	195
<i>Navicula simplex</i> Krasske	258, 260, 998, 1064
<i>Navicula simulata</i> Manguin	1062, 1065
<i>Navicula slesvicensis</i> Grunow	1065
<i>Navicula smithii</i> Brébisson	413, 1066
<i>Navicula smithii</i> var. <i>fusca</i> W. Gregory	986
<i>Navicula smithii</i> var. <i>nitescens</i> W. Gregory	405
<i>Navicula soehrensensis</i> Krasske	217
<i>Navicula</i> sp.	1093
<i>Navicula sphaerophora</i> Kützing	111
<i>Navicula spicula</i> (Hickie) Cleve	868
<i>Navicula splendida</i> Ehrenberg	1677
<i>Navicula stankovici</i> Hustedt	1066
<i>Navicula stauroptera</i> Grunow	1410
<i>Navicula stauroptera</i> var. <i>parva</i> (Ehrenberg) Van Heurck	1066, 1367
<i>Navicula stomatophora</i> Grunow	1412
<i>Navicula striolata</i> (Grunow) Lange-Bertalot	1068
<i>Navicula styriaca</i> Grunow	177
<i>Navicula subacuta</i> (Ehrenberg) Ralfs	1391
<i>Navicula subatomoides</i> Hustedt	70
<i>Navicula subcapitata</i> (W. Gregory) Ralfs	1415
<i>Navicula subcapitata</i> var. <i>paucistriata</i> Grunow	1425
<i>Navicula subcapitata</i> var. <i>stauroneiformis</i> Van Heurck	1426
<i>Navicula subhamulata</i> Grunow	603
<i>Navicula sublinearis</i> Grunow	190
<i>Navicula subminuscula</i> Manguin	465
<i>Navicula submolesta</i> Hustedt	265
<i>Navicula submuralis</i> Hustedt	467
<i>Navicula submusvicola</i> Krasske	219
<i>Navicula subrotundata</i> Hustedt	1068
<i>Navicula subsolaris</i> Grunow	1429
<i>Navicula subtilissima</i> Cleve	884
<i>Navicula sudetica</i> Hilse	1431
<i>Navicula tabellaria</i> (Ehrenberg) Kützing	1433
<i>Navicula tabellaria</i> var. <i>stauroneiformis</i> Van Heurck	1069
<i>Navicula tantula</i> Hustedt	460, 1021, 1069
<i>Navicula tenella</i> Brébisson	1042
<i>Navicula tenelloides</i> Hustedt	1070
<i>Navicula tenera</i> Hustedt	603
<i>Navicula termes</i> (Ehrenberg) O'Meara	1072
<i>Navicula thermicola</i> J.B. Petersen	1598
<i>Navicula tridentula</i> Krasske	1073

<i>Navicula trinodis</i> var. <i>biceps</i> Grunow	373
<i>Navicula tripunctata</i> (O.F. Müller) Bory	990, 1074
<i>Navicula trivialis</i> Lange-Bertalot	1075
<i>Navicula tumida</i> W. Smith	1077, 1543
<i>Navicula turgida</i> Ehrenberg	478
<i>Navicula tuscula</i> Ehrenberg	108
<i>Navicula tuscula f. minor</i> Simonsen	1078
<i>Navicula twymaniana</i> R.E.M. Archibald	263, 1079
<i>Navicula umbonata</i> Ehrenberg	1294
<i>Navicula unica</i> Salah & G. Tamás	1079
<i>Navicula upsaliensis</i> (Grunow) Peragallo	1080
<i>Navicula variostrata</i> Krasske	208
<i>Navicula vaucheriae</i> J.B. Petersen	1099
<i>Navicula veneta</i> Kützing	1080
<i>Navicula ventralis</i> Krasske	1505
<i>Navicula ventricosa</i> Ehrenberg	201, 1086
<i>Navicula viridis</i> (Nitzsch) Ehrenberg	1435
<i>Navicula viridis</i> var. <i>commutata</i> (Grunow) Truan y Luard	1444
<i>Navicula viridula</i> (Kützing) Kützing	1086
<i>Navicula viridula f. minor</i> Grunow	1091
<i>Navicula viridula</i> var. <i>germainii</i> (J.H. Wallace) Lange-Bertalot	987
<i>Navicula viridula</i> var. <i>rostellata</i> (Kützing) Cleve	1054
<i>Navicula viridula</i> var. <i>slesvicensis</i> (Grunow) Van Heurck	1065
<i>Navicula vitabunda</i> Hustedt	1100
<i>Navicula vitrea</i> Krasske	603, 1091
<i>Navicula vulgaris</i> (Thwaites) Heiberg	699
<i>Navicula vulpina</i> Kützing	1092
<i>Navicula wiesneri</i> Lange-Bertalot	1093
<i>Navicula zachariasi</i> Reichelt	163
<i>Navicula zebra</i> Ehrenberg	483
<i>Navicula zellensis</i> Grunow	181
<i>Naviculadicta digitulus</i> (Hustedt) Lange-Bertalot	1098
NAVICULADICTA Lange-Bertalot	1098
<i>Naviculadicta vaucheriae</i> (J.B. Petersen) Lange-Bertalot	1099
<i>Naviculadicta vitabunda</i> (Hustedt) Lange-Bertalot	1100
NAVICYMBULA Krammer	1100
<i>Navicymbula pusilla</i> (Grunow) Krammer	1100
<i>Neidium affine</i> (Ehrenberg) Pfitzer	1101
<i>Neidium affine</i> var. <i>amphirhynchus</i> (Ehrenberg) Cleve	1105
<i>Neidium affine</i> var. <i>amphirhynchus</i> f. <i>major</i> Cleve	1111
<i>Neidium affine</i> var. <i>longiceps</i> (W. Gregory) Cleve	1128
<i>Neidium alpinum</i> Hustedt	1108
<i>Neidium amphigomphus</i> (Ehrenberg) Pfitzer	1109
<i>Neidium amphirhynchus</i> (Ehrenberg) Pfitzer	1105

<i>Neidium amphirhynchus</i> var. <i>majus</i> (Cleve) F. Meister	1111
<i>Neidium amphirhynchus</i> var. <i>medium</i> (Cleve-Euler) Cleve-Euler	1111
<i>Neidium amphirhynchus</i> var. <i>undulatum</i> (Grunow) F. Meister	1112
<i>Neidium ampliatum</i> (Ehrenberg) Krammer	1112
<i>Neidium apiculatum</i> Reimer	1115
<i>Neidium binodis</i> (Ehrenberg) Hustedt	1115
<i>Neidium bisulcatum</i> (Lagerstedt) Cleve	1115
<i>Neidium densestriatum</i> (Østrup) Krammer	1117
<i>Neidium dilatatum</i> (Ehrenberg) Cleve	1117
<i>Neidium dubium</i> (Ehrenberg) Cleve	1118
<i>Neidium hercynicum</i> Ant. Mayer	1121
<i>Neidium iridis</i> (Ehrenberg) Cleve	1122
<i>Neidium iridis</i> f. <i>vernalis</i> Reichelt ex Hustedt	1132
<i>Neidium iridis</i> var. <i>amphigomphus</i> (Ehrenberg) Ant. Mayer	1125
<i>Neidium iridis</i> var. <i>ampliata</i> (Ehrenberg) Cleve	1112
<i>Neidium iridis</i> var. <i>firma</i> (Kützing) Ant. Mayer	1127
<i>Neidium longiceps</i> (W. Gregory) Cleve-Euler	1128
NEIDIUM Pfitzer	1101
<i>Neidium productum</i> (W. Smith) Cleve	1130
<i>Neidium septentrionalis</i> Cleve-Euler	1131
<i>Neidium</i> sp.	1133
<i>Neidium vernale</i> (Reichelt ex Hustedt) Metzeltin & Lange-Bertalot	1132
<i>Nitzschia abbreviata</i> Hustedt	1135
<i>Nitzschia abbreviata</i> Hustedt	1203
<i>Nitzschia acicularioides</i> Hustedt	1135
<i>Nitzschia acicularis</i> (Kützing) W. Smith	1136
<i>Nitzschia acicularis</i> var. <i>reversa</i>	1141
<i>Nitzschia acidoclinata</i> Lange-Bertalot	1142
<i>Nitzschia actinastroides</i> (Lemmermann) van Goor	1142
<i>Nitzschia acula</i> Hantzsch ex Cleve & Grunow	1145
<i>Nitzschia agnita</i> Hustedt	1146
<i>Nitzschia alpina</i> Hustedt	1147
<i>Nitzschia amphibia</i> f. <i>abbreviata</i> Manguin	1152
<i>Nitzschia amphibia</i> Grunow	1147
<i>Nitzschia amphibioides</i> Hustedt	1153
<i>Nitzschia amphioxys</i> (Ehrenberg) W. Smith	856
<i>Nitzschia angustata</i> (W. Smith) Grunow	1728
<i>Nitzschia apiculata</i> (W. Gregory) Grunow	1728
<i>Nitzschia archibaldii</i> Lange-Bertalot	1153
<i>Nitzschia aurariae</i> Cholnoky	1154
<i>Nitzschia bacillum</i> Hustedt	1155
<i>Nitzschia bergii</i> Cleve-Euler	1155
<i>Nitzschia bilobata</i> W. Smith	1155
<i>Nitzschia brevissima</i> Grunow	1156

<i>Nitzschia bryophila</i> (Hustedt) Hustedt	1157
<i>Nitzschia calida</i> Grunow	1730
<i>Nitzschia capitata</i> Østrup	1157
<i>Nitzschia capitellata</i> Hustedt	1158
<i>Nitzschia capitellata</i> var. <i>tenuirostris</i> (Grunow) Bukhtiyarova	1160
<i>Nitzschia circumscuta</i> (J.W. Bailey) Grunow	1161
<i>Nitzschia clausii</i> f. <i>curvirostrata</i> Manguin	1165
<i>Nitzschia clausii</i> Hantzsch	1162
<i>Nitzschia closterium</i> (Ehrenberg) W. Smith	1165
<i>Nitzschia coarctata</i> Grunow	1166
<i>Nitzschia communis</i> Rabenhorst	1166
<i>Nitzschia communis</i> var. <i>obtusa</i> Grunow	1168
<i>Nitzschia commutata</i> Grunow	1169
<i>Nitzschia commutatoides</i> Lange-Bertalot	1170
<i>Nitzschia compressa</i> (J.W. Bailey) C.S. Boyer	1730
<i>Nitzschia constricta</i> (Kützing) Ralfs	1731
<i>Nitzschia curvula</i> W. Smith	1615
<i>Nitzschia debilis</i> (Arnott) Grunow	1732
<i>Nitzschia delognei</i> Grunow	1567
<i>Nitzschia denticula</i> Grunow	362
<i>Nitzschia denticula</i> var. <i>delognei</i> Grunow	1278
<i>Nitzschia disputata</i> J.R. Carter	1179
<i>Nitzschia dissipata</i> (Kützing) Grunow	1170
<i>Nitzschia dissipata</i> var. <i>media</i> (Hantzsch) Grunow	1176
<i>Nitzschia dubia</i> var. <i>latestriata</i> Østrup	1178
<i>Nitzschia dubia</i> W. Smith	1177
<i>Nitzschia elongata</i> Hassall	867
<i>Nitzschia epithemiformis</i> Lange-Bertalot	1178, 1179
<i>Nitzschia epithemoides</i> var. <i>disputata</i> (J.R. Carter) Lange-Bertalot	1179
<i>Nitzschia filiformis</i> (W. Smith) Van Heurck	1180
<i>Nitzschia filiformis</i> var. <i>conferta</i> (P.G. Richter) Lange-Bertalot	1183
<i>Nitzschia flexa</i> Schumann	1300
<i>Nitzschia fonticola</i> (Grunow) Grunow	1183, 1266
<i>Nitzschia fontifuga</i> Cholnoky	1186
<i>Nitzschia frustulum</i> (Kützing) Grunow	1187
<i>Nitzschia frustulum</i> var. <i>bryophila</i> Hustedt	1157
<i>Nitzschia frustulum</i> var. <i>perminuta</i> Grunow	1253
<i>Nitzschia frustulum</i> var. <i>subsalina</i> Hustedt	1190
<i>Nitzschia fruticosa</i> Hustedt	1191
<i>Nitzschia graciliformis</i> Lange-Bertalot & Simonsen	1191
<i>Nitzschia gracilis</i> Hantzsch	1193
<i>Nitzschia granulata</i> Grunow	1737
<i>Nitzschia hantzschiana</i> Rabenhorst	1197
<i>Nitzschia harderi</i> Hustedt	1199

<i>NITZSCHIA</i> Hassall	1135
<i>Nitzschia heufleriana</i> Grunow	1201
<i>Nitzschia hungarica</i> Grunow	1737
<i>Nitzschia hybrida</i> Grunow	1201
<i>Nitzschia ignorata</i> Krasske	1201, 1228
<i>Nitzschia incognita</i> Legler & Krasske	1202
<i>Nitzschia inconspicua</i> Grunow	1135, 1203
<i>Nitzschia intermedia</i> Hantzsch ex Cleve & Grunow	1205
<i>Nitzschia kuetzingiana</i> Hilse	1206, 1259
<i>Nitzschia lacuum</i> Lange-Bertalot	1208
<i>Nitzschia levidensis</i> (W. Smith) Grunow	1740
<i>Nitzschia liebethruthii</i> Rabenhorst	1209
<i>Nitzschia linearis</i> (C. Agardh) W. Smith	1209
<i>Nitzschia linearis</i> var. <i>subtilis</i> Hustedt	1217
<i>Nitzschia linearis</i> var. <i>tenuis</i> (W. Smith) Grunow	1217
<i>Nitzschia littoralis</i> Grunow	1742
<i>Nitzschia longissima</i> (Brébisson) Grunow	1219
<i>Nitzschia longissima</i> var. <i>reversa</i> Grunow	1265
<i>Nitzschia lorenziana</i> Grunow	1220
<i>Nitzschia macaronesica</i> Lange-Bertalot	1220
<i>Nitzschia macilenta</i> W. Gregory	1220
<i>Nitzschia media</i> Hantzsch	1176
<i>Nitzschia mediterranea</i> Hustedt	1500
<i>Nitzschia microcephala</i> Grunow	1221
<i>Nitzschia minutissima</i> W. Smith	1225
<i>Nitzschia minutula</i> Grunow	1225, 1253
<i>Nitzschia monguilloni</i> Manguin	1227
<i>Nitzschia nana</i> Grunow	1201, 1228
<i>Nitzschia navicularis</i> (Brébisson) Grunow	1742
<i>Nitzschia obtusa</i> var. <i>brevissima</i> Van Heurck	1156
<i>Nitzschia obtusa</i> var. <i>scalpelliformis</i> (Grunow) Grunow	1269
<i>Nitzschia obtusa</i> W. Smith	1230
<i>Nitzschia palea</i> (Kützing) W. Smith	1232
<i>Nitzschia palea</i> f. <i>dubia</i> Manguin	1245
<i>Nitzschia palea</i> var. <i>debilis</i> (Kützing) Grunow	1243
<i>Nitzschia palea</i> var. <i>fonticola</i> Grunow	1183
<i>Nitzschia palea</i> var. <i>romana</i> Grunow	1266
<i>Nitzschia palea</i> var. <i>tenuirostris</i> Grunow	1160
<i>Nitzschia paleacea</i> Grunow	1245
<i>Nitzschia paleaeformis</i> Hustedt	1250
<i>Nitzschia parvula</i> W. Smith	1250
<i>Nitzschia pecten</i> Brun	1252
<i>Nitzschia perminuta</i> (Grunow) Peragallo	1225, 1253
<i>Nitzschia perspicua</i> Chohnoky	1256

<i>Nitzschia pseudoamphioxys</i> Hustedt	1256
<i>Nitzschia pseudofonticola</i> Hustedt	1257
<i>Nitzschia pumila</i> Hustedt	1257
<i>Nitzschia punctata</i> (W. Smith) Grunow	1743
<i>Nitzschia pusilla</i> (Kützing) Lange-Bertalot	1206
<i>Nitzschia pusilla</i> (Kützing) Lange-Bertalot	1259
<i>Nitzschia recta</i> Hantzsch ex Rabenhorst	1260
<i>Nitzschia reversa</i> W. Smith	1265
<i>Nitzschia romana</i> Grunow	1183, 1266
<i>Nitzschia rosenstockii</i> Lange-Bertalot	1267
<i>Nitzschia rostellata</i> Hustedt	1268
<i>Nitzschia ruttneri</i> Hustedt	1268
<i>Nitzschia scalaris</i> (Ehrenberg) W. Smith	1743
<i>Nitzschia scalpelliformis</i> Grunow	1269
<i>Nitzschia seriata</i> Cleve	1507
<i>Nitzschia sigma</i> (Kützing) W. Smith	1271
<i>Nitzschia sigma</i> var. <i>rigidula</i> (H. Peragallo & Peragallo) Grunow	1274
<i>Nitzschia sigmatella</i> W. Gregory	1617
<i>Nitzschia sigmoidea</i> (Nitzsch) W. Smith	1275
<i>Nitzschia sinuata</i> (Thwaites) Grunow	1277
<i>Nitzschia sinuata</i> var. <i>delognei</i> (Grunow) Lange-Bertalot	1278
<i>Nitzschia sinuata</i> var. <i>tabellaria</i> (Grunow) Grunow	1290
<i>Nitzschia sociabilis</i> Hustedt	1278, 1288
<i>Nitzschia solgensis</i> Cleve-Euler	1279
<i>Nitzschia solita</i> Hustedt	1280
<i>Nitzschia</i> sp.	1301
<i>Nitzschia stagnorum</i> Rabenhorst	1280
<i>Nitzschia subacicularis</i> Hustedt	1281
<i>Nitzschia subcapitellata</i> Hustedt	1282
<i>Nitzschia sublinearis</i> Hustedt	1283
<i>Nitzschia subtilis</i> (Kützing) Grunow	1284
<i>Nitzschia subtilis</i> var. <i>paleacea</i> Grunow	1245
<i>Nitzschia subtubicola</i> H. Germain	1278, 1288
<i>Nitzschia suchlandtii</i> Hustedt	1289
<i>Nitzschia supralitorea</i> Lange-Bertalot	1290
<i>Nitzschia tabellaria</i> (Grunow) Grunow	1290
<i>Nitzschia tenuis</i> W. Smith	1217
<i>Nitzschia terrestris</i> (J.B. Petersen) Hustedt	1291
<i>Nitzschia thermalis</i> (Ehrenberg) Auerswald	1291, 1294
<i>Nitzschia thermalis</i> var. <i>intermedia</i> Grunow	1292
<i>Nitzschia thermaloides</i> Hustedt	1293
<i>Nitzschia tryblionella</i> Hantzsch	1735
<i>Nitzschia tryblionella</i> var. <i>debilis</i> (Arnott) Hustedt	1732
<i>Nitzschia tryblionella</i> var. <i>levidensis</i> (W. Smith) Grunow	1740

<i>Nitzschia tryblionella</i> var. <i>victoriae</i> (Grunow) Grunow	1744
<i>Nitzschia tubicola</i> Grunow	1293
<i>Nitzschia umbonata</i> (Ehrenberg) Lange-Bertalot	1292, 1294
<i>Nitzschia valdecostata</i> Lange-Bertalot & Simonsen	1296
<i>Nitzschia valdestriata</i> Aleem & Hustedt	1296
<i>Nitzschia vermicularis</i> (Kützing) Hantzsch	1297
<i>Nitzschia vermicularis</i> var. <i>flexa</i> (Schumann) Cleve-Euler	1300
<i>Nitzschia vermicularis</i> var. <i>terrestris</i> J.B. Petersen	1291
<i>Nitzschia virgata</i> Roper	867
<i>Nitzschia vitrea</i> G. Norman	1300
<i>Nitzschia vitrea</i> var. <i>recta</i> (Hantzsch ex Rabenhorst) Van Heuck	1260
<i>Nitzschia vitrea</i> var. <i>salinarum</i> Grunow	1301
<i>Nupela imperfecta</i> (Schimanski) Lange-Bertalot & Genkal	1306
<i>Nupela impexiformis</i> (Lange-Bertalot) Lange-Bertalot	1306
<i>Nupela lapidosa</i> (Krasske) Lange-Bertalot	1307
<i>Nupela silvahercynia</i> (Lange-Bertalot) Lange-Bertalot	1309
NUPELA Vyverman & Compère	1306
<i>Odontella amphicephala</i> Ehrenberg	162
<i>Odontidium hiemale</i> var. <i>mesodon</i> (Ehrenberg) Grunow	383
<i>Odontidium hyemale</i> (Lyngbye) Kützing	380
<i>Odontidium mutabile</i> W. Smith	651
<i>Odontidium parasiticum</i> W. Smith	1510
<i>Opephora martyi</i> Héribaud	1610
<i>Opephora mutabilis</i> (Grunow) Sabbe & Vyverman	1309
OPEPHORA P. Petit	1309
<i>Orthoseira dickieii</i> Thwaites	917
<i>Orthosira orichalcea</i> W. Smith	1310
<i>Orthosira roeseana</i> (Rabenhorst) O'Meara	1310
ORTHOSIRA W. Smith	1310
PARALIA Heiberg	1312
<i>Paralia sulcata</i> (Ehrenberg) Cleve	1313
<i>Paralia sulcata</i> var. <i>coronata</i> (Ehrenberg) G.W. Andrews	1313
<i>Parlibellus crucicula</i> (W. Smith) Witkowski, Lange-Bertalot & Metzeltin	1313
PARLIBELLUS E.J. Cox	1313
<i>Parlibellus protracta</i> (Grunow) Witkowski, Lange-Bertalot & Metzeltin	1314
<i>Parlibellus protractus</i> var. <i>subcapitatus</i> (Wislouch & V.S. Poretzky) Aboal	1314
PERONIA Brébisson & Arnott ex Kitton	1315
<i>Peronia erinacea</i> Brébisson & Arnott ex Kitton	1315
<i>Peronia fibula</i> (Brébisson) Ross	1315
<i>Pinnularia acorica</i> Krammer & Metzeltin	1317
<i>Pinnularia acoricola</i> Hustedt	1317
<i>Pinnularia acrosphaeria</i> (Brébisson) W. Smith	1320
<i>Pinnularia acrosphaeria</i> Rabenhorst	1322
<i>Pinnularia acuminata</i> W. Smith	1323

<i>Pinnularia acuta</i> W. Smith	1041
<i>Pinnularia allorgei</i> Manguin	1324
<i>Pinnularia alpina</i> W. Smith	1324
<i>Pinnularia amphicephala</i> Ant. Mayer	1340
<i>Pinnularia amphiceros</i> Ehrenberg	942
<i>Pinnularia angulosa</i> Krammer	1325
<i>Pinnularia angusta</i> (Cleve) Krammer	1325
<i>Pinnularia apis</i> Ehrenberg	399
<i>Pinnularia appendiculata</i> (C. Agardh) Cleve	1325, 1381
<i>Pinnularia appendiculata</i> f. <i>constricta</i> Manguin	1329
<i>Pinnularia bacillaris</i> Ehrenberg	950
<i>Pinnularia bicapitata</i> (Lagerstedt) Cleve	1330, 1331, 1375, 1392
<i>Pinnularia biceps</i> f. <i>petersenii</i> Ross	1378
<i>Pinnularia biceps</i> W. Gregory	1330, 1375, 1392
<i>Pinnularia borealis</i> Ehrenberg	1332
<i>Pinnularia borealis</i> f. <i>elongata</i> Manguin	1337
<i>Pinnularia borealis</i> f. <i>rectangularis</i> G.W.F. Carlson	1338
<i>Pinnularia borealis</i> var. <i>brevicostata</i> Hustedt	1325
<i>Pinnularia borealis</i> var. <i>subislandica</i> Krammer	1338
<i>Pinnularia brauniana</i> (Grunow) Studnička	1338
<i>Pinnularia braunii</i> (Grunow) Cleve	1339
<i>Pinnularia braunii</i> var. <i>amphicephala</i> (Ant. Mayer) Hustedt	1340
<i>Pinnularia brebissonii</i> (Kützing) Rabenhorst	1341
<i>Pinnularia brebissonii</i> var. <i>angusta</i> (Grunow) Rabenhorst	1344
<i>Pinnularia brebissonii</i> var. <i>diminuta</i> (Grunow) Cleve	1345
<i>Pinnularia brebissonii</i> var. <i>subproducta</i> (Grunow) Cleve-Euler	1346
<i>Pinnularia brevicostata</i> Cleve	1347
<i>Pinnularia brevicostata</i> var. <i>intermedia</i> Manguin	1347
<i>Pinnularia caraccana</i> Ehrenberg ex Rabenhorst	1348
<i>Pinnularia cincta</i> Ehrenberg	957
<i>Pinnularia dactylus</i> Ehrenberg	1348
<i>Pinnularia decrescens</i> (Grunow) Krammer	1349
<i>Pinnularia dicephala</i> (Ehrenberg) Ehrenberg	1455
<i>Pinnularia digitoradiata</i> W. Gregory	982
<i>Pinnularia divergens</i> var. <i>undulata</i> (Peragallo & Héribaud) Hustedt	1354
<i>Pinnularia divergens</i> W. Smith	1349
<i>Pinnularia divergentissima</i> (Grunow) Cleve	1354
<i>Pinnularia divergentissima</i> var. <i>subrostrata</i> A. Cleve	1429
<i>Pinnularia dubitabilis</i> Hustedt	1356
PINNULARIA Ehrenberg	1317
<i>Pinnularia elginensis</i> W. Gregory	1459
<i>Pinnularia erratica</i> Krammer	1356

<i>Pinnularia esox</i> Ehrenberg	1356
<i>Pinnularia exigua</i> W. Gregory	1460
<i>Pinnularia gastrum</i> Ehrenberg	1460
<i>Pinnularia gentilis</i> (Donkin) Cleve	1356
<i>Pinnularia gibba</i> Ehrenberg	1357, 1410
<i>Pinnularia gibba</i> f. <i>minutissima</i> Manguin	1367
<i>Pinnularia gibba</i> f. <i>subundulata</i> Mayer	1369
<i>Pinnularia gibba</i> var. <i>linearis</i> Hustedt	1364
<i>Pinnularia gibba</i> var. <i>mesogongyla</i> (Ehrenberg) Hustedt	1365
<i>Pinnularia gibba</i> var. <i>parva</i> (Grunow) Frenguelli	1367
<i>Pinnularia gibba</i> var. <i>sancta</i> (Grunow ex Cleve) F. Meister	1368
<i>Pinnularia gibba</i> var. <i>subundulata</i> (Ant. Mayer ex Hustedt) Frenguelli	1369
<i>Pinnularia globiceps</i> W. Gregory	1370
<i>Pinnularia gracilis</i> Heiden & Kolbe	1371
<i>Pinnularia hemiptera</i> (Kützing) Rabenhorst	1371
<i>Pinnularia heteropleura</i> Ehrenberg	332
<i>Pinnularia hilseana</i> C. Janisch	1372, 1415
<i>Pinnularia humilis</i> Krammer & Lange-Bertalot	1374
<i>Pinnularia inflata</i> (Kützing) Rabenhorst	1374
<i>Pinnularia instabilis</i> (A.W.F. Schmidt) Metzeltin	1375
<i>Pinnularia integra</i> W. Smith	1500
<i>Pinnularia interrupta</i> f. <i>minor</i> J.B. Petersen	1378
<i>Pinnularia interrupta</i> f. <i>minutissima</i> (Hustedt) Hustedt	1378
<i>Pinnularia interrupta</i> var. <i>joculata</i> Manguin	1380
<i>Pinnularia interrupta</i> var. <i>minutissima</i> Hustedt	1378
<i>Pinnularia interrupta</i> W. Smith	1330, 1331, 1375, 1392
<i>Pinnularia interruptiformis</i> Krammer	1378
<i>Pinnularia joculata</i> (Manguin) Krammer	1380
<i>Pinnularia johnsonii</i> W. Smith	1381
<i>Pinnularia karelica</i> Cleve	1381
<i>Pinnularia kuetsingii</i> Krammer	1325, 1381
<i>Pinnularia lata</i> (Brébisson) W. Smith	1382
<i>Pinnularia lata</i> var. <i>thuringiaca</i> (Rabenhorst) Ant. Mayer	1406
<i>Pinnularia legumen</i> Ehrenberg	1383
<i>Pinnularia leptosoma</i> (Grunow) Cleve	192
<i>Pinnularia longa</i> W. Gregory	1014
<i>Pinnularia lundii</i> Hustedt	1384
<i>Pinnularia lundii</i> var. <i>linearis</i> Krammer	1386
<i>Pinnularia major</i> (Kützing) Rabenhorst	1386
<i>Pinnularia major</i> var. <i>subacuta</i> (Ehrenberg) Cleve	1391
<i>Pinnularia mayeri</i> Krammer	1392
<i>Pinnularia mesogongyla</i> Ehrenberg	1365
<i>Pinnularia mesolepta</i> (Ehrenberg) W. Smith	1330, 1331,

	1375, 1392
<i>Pinnularia mesolepta</i> var. <i>angusta</i> Cleve	1325
<i>Pinnularia mesolepta</i> var. <i>producta</i> (Grunow) Gutwinski	1393
<i>Pinnularia mesolepta</i> var. <i>termes</i> (Van Heurck) Mills	1394
<i>Pinnularia metzeltinii</i> Krammer	1394
<i>Pinnularia microstauron</i> (Ehrenberg) Cleve	1395
<i>Pinnularia microstauron</i> f. <i>biundulata</i> (O. Müller) Hustedt	1406
<i>Pinnularia microstauron</i> f. <i>minutissima</i> Manguin	1400
<i>Pinnularia microstauron</i> var. <i>ambigua</i> F. Meister	1400
<i>Pinnularia microstauron</i> var. <i>biundulata</i> O. Müller	1406
<i>Pinnularia microstauron</i> var. <i>brebissonii</i> (Kützing) Hustedt	1341
<i>Pinnularia microstauron</i> var. <i>rostrata</i> Krammer	1401
<i>Pinnularia molaris</i> (Grunow) Cleve	192
<i>Pinnularia muscicola</i> J.B. Petersen	219
<i>Pinnularia nobilis</i> (Ehrenberg) Ehrenberg	1401
<i>Pinnularia nodosa</i> (Ehrenberg) W. Smith	1403
<i>Pinnularia obscura</i> Krasske	1403
<i>Pinnularia ovalis</i> Hilse	408
<i>Pinnularia parva</i> f. <i>interrupta</i> J.B. Petersen	1403
<i>Pinnularia peregrina</i> Ehrenberg	1027
<i>Pinnularia perirrorata</i> Krammer	1404
<i>Pinnularia permagna</i> J.W. Bailey	194
<i>Pinnularia petersii</i> Ehrenberg	1029
<i>Pinnularia placentula</i> Ehrenberg	1462
<i>Pinnularia polyonca</i> (Brébisson) W. Smith	1404
<i>Pinnularia pseudogibba</i> Krammer	1405
<i>Pinnularia quadrifasciata</i> (Ehrenberg) Ehrenberg	1406
<i>Pinnularia rabenhorstii</i> (Grunow) Krammer	1406
<i>Pinnularia rhombarea</i> Krammer	1406
<i>Pinnularia rhombarea</i> var. <i>biundulata</i> (O. Müller) Krammer	1406
<i>Pinnularia rhomboelliptica</i> Krammer	1407
<i>Pinnularia rhomboelliptica</i> var. <i>inflata</i> Krammer	1407
<i>Pinnularia rivularis</i> Hustedt	1408
<i>Pinnularia rupestris</i> Hantzsch	1408
<i>Pinnularia schroederi</i> (Hustedt) Cholnoky	1409
<i>Pinnularia septentrionalis</i> Krammer	1409
<i>Pinnularia similis</i> Hustedt	1410
<i>Pinnularia sinistra</i> Krammer	1410
<i>Pinnularia</i> sp.	1447
<i>Pinnularia stauoptera</i> (Grunow) Rabenhorst	1360, 1410
<i>Pinnularia stauoptera</i> var. <i>interrupta</i> Cleve	1411
<i>Pinnularia stauoptera</i> var. <i>sancta</i> Grunow ex Cleve	1368
<i>Pinnularia stomatophora</i> (Grunow) Cleve	1412
<i>Pinnularia streptoraphe</i> Cleve	1414

<i>Pinnularia streptoraphe</i> f. <i>minor</i> Manguin	1414
<i>Pinnularia subacuta</i> Ehrenberg	1391
<i>Pinnularia subbrevistriata</i> Krammer	1415
<i>Pinnularia subcapitata</i> f. <i>lata</i> Manguin	1425
<i>Pinnularia subcapitata</i> f. <i>typica</i> J.B. Petersen	1426
<i>Pinnularia subcapitata</i> f. <i>undulata</i> O. Müller ex Hustedt	1426
<i>Pinnularia subcapitata</i> var. <i>appendiculata</i> Willi Krieger	1423
<i>Pinnularia subcapitata</i> var. <i>azorica</i> Holmboe	1423
<i>Pinnularia subcapitata</i> var. <i>elongata</i> Krammer	1423
<i>Pinnularia subcapitata</i> var. <i>hilseana</i> (C. Janisch) O. Müller	1372
<i>Pinnularia subcapitata</i> var. <i>hybrida</i> (Grunow) Frenguelli	1424
<i>Pinnularia subcapitata</i> var. <i>paucistriata</i> (Grunow) Cleve	1425
<i>Pinnularia subcapitata</i> var. <i>stauroneiformis</i> (Van Heurck) O. Müller	1426
<i>Pinnularia subcapitata</i> W. Gregory	1372, 1415
<i>Pinnularia subcommutata</i> Krammer	1427
<i>Pinnularia subgibba</i> Krammer	1427
<i>Pinnularia subgibba</i> var. <i>hustedtii</i> Krammer	1428
<i>Pinnularia subgibba</i> var. <i>tirolensis</i> Metzeltin & Krammer	1434
<i>Pinnularia subgigas</i> Krammer	1428
<i>Pinnularia sublinearis</i> (Grunow) Cleve	190
<i>Pinnularia subrostrata</i> (A. Cleve) Cleve-Euler	1429
<i>Pinnularia subrupestris</i> Krammer	1429
<i>Pinnularia subsolaris</i> (Grunow) Cleve	1429
<i>Pinnularia subsolaris</i> f. <i>mutabilis</i> Manguin	1430
<i>Pinnularia sudetica</i> (Hilse) M. Peragallo	1431
<i>Pinnularia superdivergentissima</i> Chaumont & Germain	1432
<i>Pinnularia tabellaria</i> Ehrenberg	1433
<i>Pinnularia tenuis</i> Gregory	200
<i>Pinnularia thermalis</i> Ehrenberg	1292
<i>Pinnularia tirolensis</i> (Metzeltin & Krammer) Krammer	1434
<i>Pinnularia tirolensis</i> var. <i>julma</i> Krammer	1434
<i>Pinnularia viridiformis</i> Krammer	1434
<i>Pinnularia viridis</i> (Nitzsch) Ehrenberg	1435
<i>Pinnularia viridis</i> var. <i>commutata</i> (Grunow) Cleve	1444
<i>Pinnularia viridis</i> var. <i>fallax</i> Cleve	1447
<i>Pinnularia viridis</i> var. <i>intermedia</i> Cleve	1447
<i>Pinnularia viridis</i> var. <i>sudetica</i> (Hilse) Hustedt	1431
<i>Placoneis anglica</i> (Ralfs) R.L. Lowe	1449
<i>Placoneis anglophila</i> (Lange-Bertalot) Lange-Bertalot	1451
<i>Placoneis clementioides</i> (Hustedt) E.J. Cox	1452
<i>Placoneis clementis</i> (Grunow) E.J. Cox	1452
<i>Placoneis elginensis</i> (W. Gregory) E.J. Cox	1459
<i>Placoneis elginensis</i> f. <i>exigua</i> (W. Gregory) Bukhtiyarova	1460
<i>Placoneis gastrum</i> (Ehrenberg) Mereschkowsky	1460

PLACONEIS Mereschkowsky	1449
<i>Placoneis neglecta</i> R.L. Lowe	1462
<i>Placoneis placentula</i> Heinzerling	1462
<i>Placoneis porifera</i> (Hustedt) E.J. Cox	1464
<i>Placoneis pseudanglica</i> E.J. Cox	1451
<i>Planothidium biporum</i> (M.H. Hohn & Hellerman) Lange-Bertalot	1464
<i>Planothidium calcar</i> (Cleve) Round et Bukhtiyarova	1464
<i>Planothidium conspicuum</i> (Ant. Mayer) E. Morales	1465
<i>Planothidium dau</i> i (Foged) E. Morales	1466
<i>Planothidium delicatulum</i> (Kützing) Round & Bukhtiyarova	1467
<i>Planothidium distinctum</i> (Messikommer) Lange-Bertalot	1470
<i>Planothidium dubium</i> (Grunow) Round et Bukhtiyarova	1471
<i>Planothidium ellipticum</i> (Cleve) Edlund	1472
<i>Planothidium engelbrechtii</i> (Cholnoky) Round & Bukhtiyarova	1475
<i>Planothidium frequentissimum</i> (Lange-Bertalot) Lange-Bertalot	1476
<i>Planothidium granum</i> (M.H. Hohn & Hellerman) Lange-Bertalot	1479
<i>Planothidium haukianum</i> (Grunow) Round & Bukhtiyarova	1480
<i>Planothidium joursacense</i> (Héribaud) Lange-Bertalot	27
<i>Planothidium lanceolatum</i> (Brébisson ex Kützing) Lange-Bertalot	1481
<i>Planothidium oestrupii</i> (Cleve-Euler) Round & Bukhtiyarova	1491
<i>Planothidium peragallii</i> (Brun & Héribaud) Round & Bukhtiyarova	1491
<i>Planothidium rostratum</i> (Østrup) Lange-Bertalot	1492
PLANOTHIDIUM Round & Bukhtiyarova	1464
<i>Platessa conspicua</i> (Ant. Mayer) Lange-Bertalot	1465
<i>Platessa hustedtii</i> (Krasske) Lange-Bertalot	1496
PLATESSA Lange-Bertalot	1496
<i>Pleurosigma acuminatum</i> (Kützing) Grunow	838
<i>Pleurosigma angulatum</i> sensu W. Smith emend Sterrenburg	1496
<i>Pleurosigma angulatum</i> var. <i>strigosa</i> (W. Smith) Van Heurck	1497
<i>Pleurosigma attenuatum</i> (Kützing) W. Smith	841
<i>Pleurosigma brebissonii</i> Grunow	841
<i>Pleurosigma distortum</i> W. Smith	843
<i>Pleurosigma elongatum</i> W. Smith	1497
<i>Pleurosigma kuetzingii</i> Grunow	844
<i>Pleurosigma macrum</i> W. Smith	844
<i>Pleurosigma nodiferum</i> Grunow	844
<i>Pleurosigma obscurum</i> W. Smith	845
<i>Pleurosigma scalproides</i> Rabenhorst	846
Pleurosigma sp.	1498
<i>Pleurosigma spenceri</i> var. <i>nodifera</i> (Grunow) Van Heurck	845
<i>Pleurosigma spencerii</i> var. <i>smithii</i> Grunow	1497
<i>Pleurosigma spencerii</i> var. <i>splendida</i> (Ehrenberg) Van Heurck	1497
<i>Pleurosigma spencerii</i> W. Smith	847
<i>Pleurosigma strigosum</i> W. Smith	1497

<i>Pleurosigma tenuissimum</i> W. Smith	848
PLEUROSIGMA W. Smith	1496
PLEUROSIRA (Meneghini) V.B.A. Trevisan	1499
<i>Pleurosira laevis</i> (Ehrenberg) Compère	1499
<i>Pleurosira thermalis</i> Meneghini	209
<i>Pleurostauron prominulum</i> Grunow	1592
<i>Pleurostaurum acutum</i> (W. Smith) Rabenhorst	1570
PRESTAURONEIS Bruder & Medlin	1500
<i>Prestauroneis integra</i> (W. Smith) Bruder	1500
PSAMMODICTYON D.G. Mann	1500
<i>Psammodictyon mediterraneum</i> (Hustedt) D.G. Mann	1500
<i>Psammosynedra closterioides</i> (Grunow) Round	1506
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<i>Psammothidium altaicum</i> Bukhtiyarova	1501
<i>Psammothidium bioretii</i> (H. Germain) Bukhtiyarova & Round	42
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<i>Psammothidium chlidanos</i> (M.H. Hohn & Hellerman) Lange-Bertalot	1501
<i>Psammothidium helveticum</i> (Hustedt) Bukhtiyarova & Round	51
<i>Psammothidium kryophilum</i> (J.B. Petersen) E. Reichardt	1502
<i>Psammothidium levanderi</i> (Hustedt) Bukhtiyarova	1503
<i>Psammothidium marginulatum</i> (Grunow) Bukhtiyarova & Round	1503
<i>Psammothidium oblongellum</i> (Oestrup) Van de Vijver	878
<i>Psammothidium sacculum</i> (J.R. Carter) Bukhtiyarova	1504
<i>Psammothidium scoticum</i> (Flower & V.J. Jones) Bukhtiyarova & Round	1505
<i>Psammothidium semiapertum</i> (Hustedt) Aboal	1505
<i>Psammothidium subatomoides</i> (Hustedt) Bukhtiyarova & Round	70
<i>Psammothidium ventralis</i> (Krasske) Bukhtiyarova & Round	1505
PSEUDO-EUNOTIA Grunow	1506
<i>Pseudoeunotia lunaris</i> (Ehrenberg) De Toni	1507
PSEUDO-NITZSCHIA H. Peragallo	1507
<i>Pseudonitzschia seriata</i> (Cleve) H. Peragallo & Peragallo	1507
<i>Pseudostaurosira brevistriata</i> (Grunow) D.M. Williams & Round	1507
PSEUDOSTAUROSIRA D.M. Williams & Round	1507
<i>Pseudostaurosira parasitica</i> (W. Smith) E. Morales	1510
<i>Pseudostaurosira parasitica</i> var. <i>subconstricta</i> (Grunow) E. Morales	1512
<i>Pseudostaurosira pseudoconstruens</i> (Marciniak) D.M. Williams & Round	1512
<i>Pseudostaurosira subsalina</i> (Hustedt) E. Morales	1513
<i>Pseudostaurosira zeilleri</i> (Héribaud) D.M. Williams & Round	1515
PUNCTASTRIATA D.M. Williams & F.E. Round	1515
<i>Punctastriata lancettula</i> (Schumann) P.B. Hamilton & Siver	1516
<i>Puncticulata bodanica</i> (Grunow) Håkansson	1517
PUNCTICULATA Håkansson	1517
<i>Puncticulata radiosa</i> (Lemmermann) Håkansson	1518
<i>Pyxidicula compressa</i> J.W. Bailey	1730

REIMERIA Kociolek & Stoermer	1518
<i>Reimeria sinuata</i> (W. Gregory) Kociolek & Stoermer emend Sala, Guerrero & Ferrario	1519
<i>Reimeria sinuata</i> f. <i>ovata</i> (Hustedt) Hartley	1522
<i>Reimeria uniseriata</i> Sala, Guerrero & Ferrario	1523
RHIZOLENIA Brightwell	1523
<i>Rhizosolenia eriensis</i> H.L. Smith	1783
<i>Rhizosolenia longiseta</i> Zacharias	1784
<i>Rhizosolenia</i> sp.	1523
<i>Rhoicosphenia abbreviata</i> (C. Agardh) Lange-Bertalot	1523, 1526
<i>Rhoicosphenia curvata</i> (Kützing) Grunow	1523, 1526
RHOICOSPHEA Grunow	1523
<i>Rhopalodia gibba</i> (Ehrenberg) O. Müller	1529
<i>Rhopalodia gibba</i> var. <i>minuta</i> Krammer	1533
<i>Rhopalodia gibba</i> var. <i>parallela</i> (Grunow) H. Peragallo & Peragallo	1533
<i>Rhopalodia gibba</i> var. <i>ventricosa</i> (Kützing) Ant. Mayer	1534
<i>Rhopalodia gibberula</i> (Ehrenberg) O. Müller	1534
<i>Rhopalodia gibberula</i> var. <i>producta</i> (Grunow) Cleve-Euler	1536
<i>Rhopalodia gibberula</i> var. <i>vanheurckii</i> O. Müller	1538
<i>Rhopalodia musculus</i> (Kützing) O. Müller	1538
RHOPALODIA O. Müller	1529
<i>Rhopalodia operculata</i> (C. Agardh) Håkansson	1539
<i>Rhopalodia parallela</i> (Grunow) O. Müller	1533
<i>Rhopalodia rupestris</i> (W. Smith) Krammer	1539
<i>Rossithidium pusillum</i> (Grunow) Round & Bukhtiyarova	1540
ROSSITHIDIUM Round & Bukhtiyarova	1540
<i>Sceptroneis mutabilis</i> Grunow	1310
<i>Schizonema vulgare</i> Thwaites	699
<i>Schizostauron crucicula</i> Grunow	204
SCOLIONEIS D.G. Mann	1543
<i>Scolioneis tumida</i> (Brébisson ex Kützing) D.G. Mann	1543
<i>Sellaphora americana</i> (Ehrenberg) D.G. Mann	1543
<i>Sellaphora bacilliformis</i> (Grunow) Mereschkowsky	1544
<i>Sellaphora bacillum</i> (Ehrenberg) D.G. Mann	1545
<i>Sellaphora elliptica</i> (Hustedt) J.R. Johansen	1547
<i>Sellaphora gregoryana</i> (Cleve & Grunow) Metzeltin & Lange-Bertalot	1547
<i>Sellaphora hustedtii</i> (Krasske) Lange-Bertalot & Werum	1548
<i>Sellaphora joubaudii</i> (H. Germain) Aboal	1548
<i>Sellaphora laevissima</i> (Kützing) D.G. Mann	1549
SELLAPHORA Mereschkowsky	1543
<i>Sellaphora mutatooides</i> Lange-Bertalot & Metzeltin	1550
<i>Sellaphora nyassensis</i> (O. Müller) D.G. Mann	1550
<i>Sellaphora pupula</i> (Kützing) Mereschkowsky	1551
<i>Sellaphora rectangularis</i> (W. Gregory) Lange-Bertalot & Metzeltin	1558

<i>Sellaphora rostrata</i> (Hustedt) J.R. Johansen	1560
<i>Sellaphora seminulum</i> (Grunow) D.G. Mann	1561
<i>Simonsenia delognei</i> (Grunow) Lange-Bertalot	1567
SIMONSENIA Lange-Bertalot	1567
<i>Skeletonema costatum</i> (Greville) Cleve	1567
SKELETONEMA Greville	1567
<i>Skeletonema</i> sp.	1569
<i>Skeletonema subsalsum</i> (Cleve-Euler) Bethge	1568
<i>Sphenella angustata</i> Kützing	727
<i>Sphenella parvula</i> Kützing	794
<i>Stauroforma exiguiformis</i> (Lange-Bertalot) Flower, V.J. Jones & Round	1570
STAUROFORMA Flower, V.J. Jones & Round	1570
<i>Stauroneis acuta</i> W. Smith	1570
<i>Stauroneis alpina</i> Hustedt	1571
<i>Stauroneis amphicephala</i> Kützing	1571
<i>Stauroneis anceps</i> Ehrenberg	1572
<i>Stauroneis anceps</i> f. <i>gracilis</i> (Ehrenberg) Hustedt	1576
<i>Stauroneis anceps</i> f. <i>linearis</i> (Ehrenberg) Hustedt	1580
<i>Stauroneis anceps</i> var. <i>amphicephala</i> (Kützing) Van Heurck	1571
<i>Stauroneis anceps</i> var. <i>hyalina</i> Peragallo & Brun	1579
<i>Stauroneis anceps</i> var. <i>linearis</i> (Ehrenberg) Brun	1580
<i>Stauroneis bacillum</i> Grunow	184
<i>Stauroneis borgei</i> Manguin	1596
<i>Stauroneis branderi</i> Hustedt	189
<i>Stauroneis cohnii</i> Hilse	891
<i>Stauroneis crucicula</i> W. Smith	1313
<i>Stauroneis dubia</i> W. Gregory	1582
STAURONEIS Ehrenberg	1570
<i>Stauroneis exilis</i> var. <i>constricta</i> Grunow	45
<i>Stauroneis gracilior</i> E. Reichardt	1582
<i>Stauroneis gracilis</i> Ehrenberg	1576
<i>Stauroneis inflata</i> Kützing	26
<i>Stauroneis javanica</i> f. <i>lapponica</i> (Hustedt) Hustedt	1582
<i>Stauroneis kriegei</i> R.M. Patrick	1583
<i>Stauroneis lanceolata</i> Kützing	1590
<i>Stauroneis legumen</i> (Ehrenberg) Kützing	1583
<i>Stauroneis linearis</i> Ehrenberg	1580
<i>Stauroneis obtusa</i> var. <i>lapponica</i> Hustedt	1582
<i>Stauroneis parva</i> Kützing	1066
<i>Stauroneis parvula</i> C. Janisch	1584
<i>Stauroneis parvula</i> var. <i>prominula</i> (Grunow) Grunow	1592
<i>Stauroneis phoenicenteron</i> (Nitzsch) Ehrenberg	1584
<i>Stauroneis phoenicenteron</i> f. <i>lanceolata</i> (Kützing) Hustedt	1590
<i>Stauroneis polymorpha</i> Lagerstedt	1591

<i>Stauroneis producta</i> Grunow	1591
<i>Stauroneis prominula</i> (Grunow) Hustedt	1592
<i>Stauroneis pseudosubobtusoides</i> H. Germain	1592
<i>Stauroneis punctata</i> Kützing	1593
<i>Stauroneis rectangularis</i> W. Gregory	1558
<i>Stauroneis rotaeana</i> Rabenhorst	1058
<i>Stauroneis salina</i> W. Smith	1594
<i>Stauroneis smithii</i> Grunow	1594
<i>Stauroneis smithii</i> var. <i>borgei</i> (Manguin) Hustedt	1596
<i>Stauroneis smithii</i> var. <i>incisa</i> Pantocsek	1597
Stauroneis sp.	1599
<i>Stauroneis spicula</i> Hickie	868
<i>Stauroneis thermicola</i> (J.B. Petersen) J.W.G. Lund	1598
<i>Stauroneis undulata</i> Hilse	902
<i>Stauroneis ventricosa</i> Kützing	902
<i>Stauoptera legumen</i> Ehrenberg	1583
<i>Stauoptera microstauron</i> Ehrenberg	1395
<i>Stauosira construens</i> Ehrenberg	1600
<i>Stauosira construens</i> var. <i>binodis</i> (Ehrenberg) Hamilton	1605
<i>Stauosira construens</i> var. <i>exigua</i> (W. Smith) H. Kobayasi	1605
<i>Stauosira construens</i> var. <i>pumila</i> (Grunow) J.C. Kingston	1606
STAUROSIRA Ehrenberg	1600
<i>Stauosira elliptica</i> (Schumann) Williams & Round	1606
<i>Stauosira intermedia</i> (Grunow) Grunow	646
<i>Stauosira pinnata</i> Ehrenberg	1607
Stauosira sp.	1609
<i>Stauosira venter</i> (Ehrenberg) H. Kobayasi	1607
STAUROSIRELLA D.M. Williams & Round	1609
<i>Stauosirella leptostauron</i> (Ehrenberg) Williams & Round	1609
<i>Stauosirella martyi</i> (Héribaud) E. Morales & Manoylov	1610
<i>Stauosirella oldenburgiana</i> (Hustedt) E. Morales	1610
<i>Stauosirella pinnata</i> (Ehrenberg) D.M. Williams & Round	1611
STENOPTEROBIA Brébisson ex Van Heurck	1615
<i>Stenopterobia curvula</i> (W. Smith) Krammer	1615, 1617
<i>Stenopterobia delicatissima</i> (F.W. Lewis) Van Heurck	1616
<i>Stenopterobia intermedia</i> (F.W. Lewis) Van Heurck	1615, 1617
<i>Stenopterobia sigmatella</i> (W. Gregory) Ross	1617
<i>Stephanodiscus alpinus</i> Hustedt	1618
<i>Stephanodiscus astraea</i> (Ehrenberg) Grunow	1618
STEPHANODISCUS Ehrenberg	1618
<i>Stephanodiscus hantzschii</i> f. <i>tenuis</i> (Hustedt) Håkansson & Stoermer	1623
<i>Stephanodiscus hantzschii</i> Grunow	1619, 1622
<i>Stephanodiscus hantzschii</i> var. <i>pusilla</i> Grunow	1619, 1622
<i>Stephanodiscus invisitatus</i> M.H. Hohn & Hellerman	273

<i>Stephanodiscus medius</i> Håkansson	1623
<i>Stephanodiscus minutulus</i> (Kützing) Cleve & Möller	1623
<i>Stephanodiscus parvus</i> Stoermer & Håkansson	1624
<i>Stephanodiscus rotula</i> (Kützing) Hendeby	1624
<i>Stephanodiscus</i> sp.	1626
<i>Stephanodiscus tenuis</i> Hustedt	1623, 1624
STRIATELLA C. Agardh	1627
<i>Striatella interrupta</i> (Ehrenberg) Heiberg	1627
<i>Striatella taeniaeformis</i> var. <i>serpentina</i> Ralfs	837
<i>Striatella unipunctata</i> (Lyngbye) C. Agardh	1628
<i>Surirella aculeata</i> Hustedt	1628
<i>Surirella amphioxys</i> W. Smith	1638
<i>Surirella angusta</i> Kützing	1629
<i>Surirella angustata</i> Hustedt	1631
<i>Surirella apiculata</i> W. Smith	1634, 1658, 1666, 1669
<i>Surirella biseriata</i> Brébisson	1635, 1643
<i>Surirella biseriata</i> f. <i>amphioxys</i> (W. Smith) Hustedt	1638, 1660
<i>Surirella biseriata</i> var. <i>bifrons</i> (Ehrenberg) Hustedt	1639
<i>Surirella biseriata</i> var. <i>minor</i> Brébisson ex W. Smith	1639
<i>Surirella biseriata</i> var. <i>turgida</i> (W. Smith) Cleve-Euler	1640
<i>Surirella brebissonii</i> Krammer & Lange-Bertalot	1640
<i>Surirella brebissonii</i> var. <i>kuetzingii</i> Krammer & Lange-Bertalot	1641
<i>Surirella brightwellii</i> W. Smith	1665
<i>Surirella capronii</i> Brébisson & Kitton	1642
<i>Surirella celtica</i> H. Germain	1635, 1643
<i>Surirella circumsuta</i> J.W. Bailey	1161
<i>Surirella constricta</i> W. Smith	1644
<i>Surirella crumena</i> Brébisson ex Kützing	1645
<i>Surirella delicatissima</i> f. <i>tenuissima</i> Manguin	1645
<i>Surirella delicatissima</i> F.W. Lewis	1616, 1687
<i>Surirella elegans</i> Ehrenberg	1645
<i>Surirella elliptica</i> Brébisson ex Kützing	302
<i>Surirella helvetica</i> Brun	1646
<i>Surirella intermedia</i> F.W. Lewis	1617
<i>Surirella linearis</i> var. <i>constricta</i> Grunow	1655
<i>Surirella linearis</i> var. <i>elliptica</i> O. Müller	1658
<i>Surirella linearis</i> var. <i>helvetica</i> (Brun) F. Meister	1646
<i>Surirella linearis</i> W. Smith	1648
<i>Surirella minuta</i> Brébisson	1634, 1658, 1666, 1669
<i>Surirella moelleriana</i> Grunow	1638, 1660
<i>Surirella nana</i> Cleve-Euler	1660
<i>Surirella navicularis</i> Brébisson	1742

<i>Surirella nervosa</i> (A.W.F. Schmidt) Ant. Mayer	1661
<i>Surirella oblonga</i> Ehrenberg	1663
<i>Surirella ovalis</i> Brébisson	1663
<i>Surirella ovalis</i> var. <i>angusta</i> (Kützing) Van Heurck	1629
<i>Surirella ovalis</i> var. <i>apiculata</i> O. Müller	1665
<i>Surirella ovalis</i> var. <i>brightwellii</i> (W. Smith) Cleve-Euler	1665
<i>Surirella ovalis</i> var. <i>crumena</i> (Brébisson ex Kützing) Van Heurck	1645
<i>Surirella ovalis</i> var. <i>minuta</i> (Brébisson) Van Heurck	1658
<i>Surirella ovalis</i> var. <i>ovata</i> (Kützing) Van Heurck	1666
<i>Surirella ovalis</i> var. <i>pinnata</i> (W. Smith) Van Heurck	1669
<i>Surirella ovalis</i> var. <i>salina</i> (W. Smith) Cleve-Euler	1666
<i>Surirella ovata</i> Kützing	1666
<i>Surirella ovata</i> var. <i>apiculata</i> W. Smith	1669
<i>Surirella ovata</i> var. <i>pinnata</i> (W. Smith) Hustedt	1669
<i>Surirella ovata</i> var. <i>salina</i> (W. Smith) Rabenhorst	1666
<i>Surirella ovulum</i> Hustedt	1670
<i>Surirella pinnata</i> W. Smith	1634, 1658, 1666, 1669
<i>Surirella rattrayi</i> A.W.F. Schmidt	1670
<i>Surirella roba</i> L. Leclercq	1670
<i>Surirella robusta</i> Ehrenberg	1672
<i>Surirella robusta</i> var. <i>splendida</i> (Ehrenberg) Van Heurck	1677
<i>Surirella salina</i> W. Smith	1634, 1658, 1666, 1669
<i>Surirella smithii</i> Ralfs	1676
<i>Surirella solea</i> (Brébisson) Brébisson	303
<i>Surirella</i> sp.	1684
<i>Surirella splendida</i> (Ehrenberg) Kützing	1677
<i>Surirella sublinearis</i> Hustedt	1679
<i>Surirella tenera</i> var. <i>nervosa</i> A.W.F. Schmidt	1661
<i>Surirella tenera</i> var. <i>splendidula</i> A.W.F. Schmidt	1683
<i>Surirella tenera</i> W. Gregory	1680
<i>Surirella terricola</i> Lange-Bertalot & Alles	1684
SURIRELLA Turpin	1628
<i>Synedra acicularis</i> Kützing	1136
<i>Synedra actinastroides</i> Lemmermann	1142
<i>Synedra acus</i> Kützing	1745
<i>Synedra acus</i> var. <i>angustissima</i> (Grunow) Van Heurck	1686
<i>Synedra acus</i> var. <i>delicatissima</i> (W. Smith) Grunow	1687
<i>Synedra acus</i> var. <i>radians</i> (Kützing) Hustedt	656
<i>Synedra affinis</i> Kützing	1716
<i>Synedra affinis</i> var. <i>fasciculata</i> (Lyngbye) Grunow	1689
<i>Synedra affinis</i> var. <i>hybrida</i> Grunow	1695
<i>Synedra allorgei</i> Manguin	1690

<i>Synedra alpina</i> Nägeli	489, 554
<i>Synedra amphicephala</i> Kützing	624
<i>Synedra amphicephala</i> var. <i>austriaca</i> (Grunow) Hustedt	625
<i>Synedra amphirhynchus</i> Ehrenberg	1778
<i>Synedra berlinensis</i> Lemmermann	162
<i>Synedra biceps</i> Kützing	1753
<i>Synedra bilunaris</i> Ehrenberg	501
<i>Synedra capitata</i> Ehrenberg	1757
<i>Synedra capitellata</i> Grunow	625
<i>Synedra closterioides</i> Grunow	1506
<i>Synedra constricta</i> Kützing	1731
<i>Synedra crystallina</i> (C. Agardh) Kützing	1690
<i>Synedra cunningtonii</i> G.S. West	1691
<i>Synedra cymbelliformis</i> A.W.F. Schmidt	204
<i>Synedra danica</i> Kützing	637
<i>Synedra debilis</i> Kützing	1243
<i>Synedra delicatissima</i> var. <i>angustissima</i> Grunow	1690
<i>Synedra delicatissima</i> W. Smith	640
<i>Synedra dissipata</i> Kützing	1170
SYNEDRA Ehrenberg	1686
<i>Synedra famelica</i> Kützing	642
<i>Synedra familiaris</i> f. <i>parva</i> Grunow	1691
<i>Synedra familiaris</i> Kützing	1693
<i>Synedra flexuosa</i> Brébisson ex Kützing	523
<i>Synedra frustulum</i> Kützing	1187
<i>Synedra gaillonii</i> (Bory) Ehrenberg	1691
<i>Synedra gracilis</i> Kützing	1692
<i>Synedra incisa</i> C.S. Boyer	646
<i>Synedra inflata</i> Heiden	646
<i>Synedra lanceolata</i> Kützing	1760
<i>Synedra longissima</i> W. Smith	1696
<i>Synedra lunaris</i> Ehrenberg	534, 1507
<i>Synedra lunaris</i> var. <i>bilunaris</i> Brun	539
<i>Synedra miniscula</i> Grunow	651
<i>Synedra minutissima</i> var. <i>pelliculosa</i> Kützing	604
<i>Synedra montana</i> Krasske ex Hustedt	651
<i>Synedra nana</i> F. Meister	652
<i>Synedra oxyrhynchus</i> Kützing	1760
<i>Synedra palea</i> Kützing	1232
<i>Synedra parasitica</i> (W. Smith) Hustedt	1510
<i>Synedra parasitica</i> var. <i>subconstricta</i> (Grunow) Hustedt	1512
<i>Synedra parva</i> Kützing	1692
<i>Synedra pinnata</i> W. Smith	1692
<i>Synedra polymorpha</i> (Pantocsek & Grunow) H.-J. Schrader	1693

<i>Synedra pulchella</i> (Ralfs ex Kützing) Kützing	266
<i>Synedra pulchella</i> var. <i>lanceolata</i> O'Meara	271
<i>Synedra radians</i> Kützing	655
<i>Synedra rumpens</i> Kützing	657
<i>Synedra rumpens</i> var. <i>familiaris</i> (Kützing) Grunow	1693
<i>Synedra rumpens</i> var. <i>fragilariodes</i> Grunow	626, 642
<i>Synedra scalaris</i> Ehrenberg	1743
<i>Synedra socia</i> N.M. Wallace	661
<i>Synedra</i> sp.	1697
<i>Synedra spathulifera</i> Grunow	1780
<i>Synedra splendens</i> Kützing	1781
<i>Synedra subaequalis</i> Grunow	1782
<i>Synedra subarcuata</i> Nägeli ex Kützing	540
<i>Synedra subtilis</i> Kützing	1284
<i>Synedra tabulata</i> (C. Agardh) Kützing	1719
<i>Synedra tabulata</i> var. <i>hybrida</i> (Grunow) Cleve-Euler	1695
<i>Synedra tenera</i> var. <i>utermoehlii</i> (Hustedt) Cleve-Euler	663
<i>Synedra tenera</i> W. Smith	661
<i>Synedra tenuis</i> Kützing	1695
<i>Synedra torta</i>	1695
<i>Synedra ulna</i> (Nitzsch) Ehrenberg	1764
<i>Synedra ulna</i> var. <i>aequalis</i> (Kützing) Hustedt	1778
<i>Synedra ulna</i> var. <i>amphirhynchus</i> (Ehrenberg) Grunow	1778
<i>Synedra ulna</i> var. <i>biceps</i> (Kützing) Schönfeldt	1753
<i>Synedra ulna</i> var. <i>bicurvata</i> (Biene ex Rabenhorst) Grunow	1696
<i>Synedra ulna</i> var. <i>contracta</i> Østrup	1759
<i>Synedra ulna</i> var. <i>danica</i> (Kützing) Grunow	637
<i>Synedra ulna</i> var. <i>lanceolata</i> (Kützing) Van Heurck	1760
<i>Synedra ulna</i> var. <i>longissima</i> (W. Smith) Grunow	1696
<i>Synedra ulna</i> var. <i>spathulifera</i> (Grunow) Grunow	1780
<i>Synedra ulna</i> var. <i>splendens</i> (Kützing) Kirchner	1781
<i>Synedra ulna</i> var. <i>subaequalis</i> (Grunow) Van Heurck	1782
<i>Synedra utermoehlii</i> Hustedt	663
<i>Synedra vaucheriae</i> (Kützing) Kützing	663
<i>Synedra vaucheriae</i> var. <i>capitellata</i> (Grunow) Hustedt	625
<i>Synedra vitrea</i> Kützing	1697
TABELLARIA Ehrenberg ex Kützing	1699
<i>Tabellaria fenestrata</i> (Lyngbye) Kützing	1699
<i>Tabellaria fenestrata</i> f. <i>intermedia</i> (Grunow) Skabichevskii	1705
<i>Tabellaria fenestrata</i> var. <i>intermedia</i> Grunow	1705
<i>Tabellaria flocculosa</i> (Roth) Knudson	1706
<i>Tabellaria flocculosa</i> var. <i>ventricosa</i> (Kützing) Grunow	1715
<i>Tabellaria</i> sp.	1716
<i>Tabellaria ventricosa</i> Kützing	1715

TABULARIA (Kützing) D.M. Williams & Round	1716
<i>Tabularia affinis</i> (Kützing) Snoeijs	1716
<i>Tabularia fasciculata</i> (C. Agardh) D.M. Williams & Round	1717
<i>Tabularia tabulata</i> (C. Agardh) Snoeijs	1719
<i>Tessella interrupta</i> Ehrenberg	1627
<i>Tetracyclus braunii</i> Grunow	1721
TETRACYCLUS Ralfs	1721
THALASSIOSIRA Cleve	1721
<i>Thalassiosira decipiens</i> (Grunow) E.G. Jørgensen	1721
<i>Thalassiosira fallax</i> Meunier	1722
<i>Thalassiosira fluviatilis</i> Hustedt	1722, 1725
<i>Thalassiosira lacustris</i> (Grunow) Hasle	1722
<i>Thalassiosira nana</i> Lohmann	1724
<i>Thalassiosira pseudonana</i> Hasle & Heimdal	1725
<i>Thalassiosira</i> sp.	1727
<i>Thalassiosira visurgis</i> Hustedt	1725
<i>Thalassiosira weissflogii</i> (Grunow) G.A. Fryxell & Hasle	1722, 1725
<i>Triceratium exiguum</i> W. Smith	1605
<i>Tryblionella angustata</i> W. Smith	1728
<i>Tryblionella apiculata</i> W. Gregory	1728
<i>Tryblionella calida</i> (Grunow) D.G. Mann	1730
<i>Tryblionella compressa</i> (Bailey) Poulin	1730, 1743
<i>Tryblionella constricta</i> (Kützing) Poulin	1731
<i>Tryblionella debilis</i> Arnott ex O'Meara	1732
<i>Tryblionella gracilis</i> W. Smith	1735
<i>Tryblionella granulata</i> (Grunow) D.G. Mann	1737
<i>Tryblionella hungarica</i> (Grunow) D.G. Mann	1737
<i>Tryblionella levidensis</i> W. Smith	1740
<i>Tryblionella littoralis</i> (Grunow) D.G. Mann	1742
<i>Tryblionella marginata</i> W. Smith	1742
<i>Tryblionella navicularis</i> (Brébisson) Ralfs	1742
<i>Tryblionella punctata</i> W. Smith	1730, 1743
<i>Tryblionella scalaris</i> (Ehrenberg) Siver & P.B. Hamilton	1743
<i>Tryblionella victoriae</i> Grunow	1744
TRYBLIONELLA W. Smith	1728
ULNARIA (Kützing) Compère	1745
<i>Ulnaria acus</i> (Kützing) Aboal	1745
<i>Ulnaria biceps</i> (Kützing) Compère	1753
<i>Ulnaria capitata</i> (Ehrenberg) Compère	641, 1757
<i>Ulnaria contracta</i> (Østrup) E. Morales & Vis	1759
<i>Ulnaria lanceolata</i> (Kützing) Compère	1760
<i>Ulnaria oxyrhynchus</i> (Kützing) Aboal	1760
<i>Ulnaria ulna</i> (Nitzsch) Compère	1764
<i>Ulnaria ulna</i> var. <i>aequalis</i> (Kützing) Aboal	1778

<i>Ulnaria ulna</i> var. <i>amphirhynchus</i> (Ehrenberg) Aboal	1778
<i>Ulnaria ulna</i> var. <i>spathulifera</i> (Grunow) Aboal	1780
<i>Ulnaria ulna</i> var. <i>splendens</i> (Kützing) Aboal	1781
<i>Ulnaria ulna</i> var. <i>subaequalis</i> (Grunow) Aboal	1782
<i>Ulva olivacea</i> Hornemann	787
<i>Urosolenia eriensis</i> (H.L. Smith) Round & R.M. Crawford	1783
<i>Urosolenia longiseta</i> (Zacharias) Edlund & Stoermer	1784
UROSOLENIA Round & R.M. Crawford	1783
VANHEURCKIA Brébisson	1785
<i>Vanheurckia rhomboides</i> (Ehrenberg) Brébisson	681
<i>Vanheurckia rhomboides</i> f. <i>crassinervia</i> Grunow	679
<i>Vanheurckia vulgaris</i> var. <i>minor</i> Tempère & Peragallo	1785
<i>Vibrio ostrearius</i> Gaillon	868
<i>Vibrio paxillifer</i> O.F. Müller	161
<i>Vibrio tripunctatus</i> O.F. Müller	1074