

Additions and Corrections to the Checklist and Bibliography of Lichens and Lichenicolous Fungi of Insular Laurimacaronesia. II.*

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Abstract: Additional records of lichens and lichenicolous fungi for either one of the Laurimacaronesian archipelagos (Azores, Madeira group, Canary Islands) or the whole area are listed together with cross references to the original sources. This list is followed by additions to a lichenological bibliography for the area.

Zusammenfassung: In einer Liste werden weitere Nachweise von Flechten und lichenicolous Pilzen für einen der laurimacaronesischen Archipele (Azoren, Madeira, Kanarische Inseln) oder das gesamte Studiengebiet zusammen mit Kurzzitaten zu den Originalquellen zusammengestellt. Nachträge zur lichenologischen Bibliographie für das Gebiet bilden den zweiten Teil der Arbeit.

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Introduction

Since the publication of a new checklist for the area (HAFELLNER 1995), and a first set of additions and corrections (HAFELLNER 1999), many additional records and a number of corrections to previously reported species have been published. These species are listed together with cross references to the original bibliographic sources. Although always complete data sets are given, full references to citations which were already listed in the bibliographies published earlier (HAFELLNER 1995, 1999), such as 'TAVARES 1952' are not repeated. Further references containing chorological data to taxa previously reported are included in the supplement to the bibliography.

Since 1995 more than 40 additional lichen taxa and over 50 further lichenicolous fungi have been added to the list of taxa known in the investigated area "Insular Laurimacaronesia", and many species have been found on its archipelagos where they were previously unknown. This shows clearly that the compilation of the checklist has fulfilled its purpose to encourage lichenologists to search for additional taxa.

It is planned to publish a new version of the checklist in 2005. Colleagues are kindly asked and invited to send copies of hitherto overlooked articles containing data on lichens or lichenicolous fungi from insular Laurimacaronesia to the author.

*V in Fritschiana 17: 1–26 (1999).

Additions and Corrections

Abrothallus parmeliarum coll.

Host: *Ramalina decipiens* (1), *Pseudocyphellaria aurata* (2)
A: -; M: MARTÍNEZ 2002: 52 (2); C: STEINER 1904: 406 (1)

Arborillus llimonae Munt.-Cvet. & Gómez-Bolea

Host: *Diploschistes scruposus* (1)
A: -; M: -; C: HAFELLNER 2002b: 12 (1)

Arthonia fuscopurpurea (Tul.) R.Sant.

Host: *Peltigera* spec. (1)
A: -; M: HAFELLNER 2002b: 12 (1); C: HAFELLNER 1995b: 137 (1)

Arthonia stereocaulina (Ohlert) R.Sant.

Host: *Stereocaulon vesuvianum* (1)
A: -; M: -; C: HAFELLNER 2002b: 12 (1)

Buellia cedricola Werner

A: -; M: -; C: NORDIN 1999: 250

Buellia laurocanariensis Giralt, Etayo & v.d.Boom

A: -; M: -; C: GIRALT et al. 2002: 203

Buellia zoharyi Galun

A: -; M: -; C: OBERMAYER 1999a: 3

Byssoloma kakouettae (Sérus.) Lücking & Sérus.

A: -; M: SÉRUSIAUX 1993: 451 (sub *Byssoloma aptrootii*); C: SÉRUSIAUX 1993: 451 (sub *Byssoloma aptrootii*)

Note: The species previously known as *Bapalmuia kakouettae* was transferred to *Byssoloma* by SÉRUSIAUX et al. (2002), and *B. aptrootii* was reduced to its synonymy.

Byssoloma llimonae Sérus., Gómez-Bolea, Logán & Lücking

A: -; M: SÉRUSIAUX et al. 2002: 184; C: SÉRUSIAUX et al. 2002: 184

Caloplaca canariensis (Follmann & Poelt) Breuss

A: -; M: KALB & HAFELLNER 1992: 65; C: FOLLMANN & POELT 1981: 370; FOLLMANN 1981b: 380

Note: The species was previously known and reported as *Fulgensia canariensis*. It was transferred to *Caloplaca* by BREUSS (2001).

Capronia leptogii Etayo & Diederich

Host: *Leptogium cochleatum* (1), *Leptogium* spec. (2)
A: -; M: : ETAYO 2002: 37 (1, 2); C: ETAYO 2002: 37 (1)

Cercidospora xanthoriae (Wedd.) R.Sant.

Host: *Xanthoria calcicola* (1)
A: -; M: -; C: HAFELLNER 2002b: 13 (1)

Cladonia dimorpha S.Hammer

A: -; M: -; C: BURGASZ & AHTI 1994: 414

Cladonia diversa Asperges

A: PURVIS & JAMES 1993: 5; M: -; C: ETAYO & BURGASZ 1997: 722

Cladonia iberica Burgas & Ahti

A: -; M: -; C: ETAYO & BURGASZ 1997: 723

Cladonia norvegica Tønsberg & Holien

A: -; M: TIMDAL 1989: 127; C: -

Cladonia umbricola Tønsberg & Ahti

A: -; M: -; C: ETAYO & BURGASZ 1997: 724

Coniarthonia pyrnhula (Nyl. ex Nyl.) Grube

A: -; M: -; C: HAFELLNER 1995b: 137

Note: The species was previously listed as *Arthonia pyrnhula* but was transferred to *Coniarthonia* by GRUBE (2001).

Conotrema harmandii (Pit.) Gilenstam

- A: -; M: -; C: TAVARES 1952: 358
 Note: The species was previously listed as *Thelotrema harmandii* but was transferred to *Conotrema* by GILENSTAM (1969).
- Endococcus stigma* (Körb) Stizenb.
 Host: *Acarospora* subgen. *Acarospora* spec. (1)
 A: -; M: -; C: HAFELLNER 2002b: 13 (1)
- Enterographa jorgei* Vezda & Vivant
 A: -; M: -; C: HAFELLNER 2002b: 13 (1)
- Erioderma leylandii* (Taylor) Müll.Arg. subsp. *arizoricum* M.Jørg. & P.James
 A: JØRGENSEN & JAMES 2001: 483; M: -; C: -
 Note: Previous records of *Erioderma leylandii* probably refer to this taxon.
- Fellhanera bouteillei* (Desm.) Vezda (syn. *Catillaria b.*)
 A: PURVIS & JAMES 1993: 5; M: TAVARES 1952: 363; C: SPIER et al. 2002 : 448
- Fissurina insidiosa* (C.Knight & Mitt.) Hook.f. (syn. *Graphis insidiosa*)
 A: ARVIDSSON 1990: 19; M: -; C: -
 Note: According to STAIGER (2002) the species belongs to the genus *Fissurina*.
- Fissurina triticea* (Nyl.) Staiger (syn. *Graphis triticea*)
 A: APTROOT 1989: 61; M: KALB & HAFELLNER 1992: 65; C: -
 Note: According to STAIGER (2002) the species belongs to the genus *Fissurina*.
- Graphis britannica* Staiger (syn. *Graphina anguina* auct. non (Mont.) Müll. Arg.)
 A: -; M: TAVARES 1952: 357; C: -
 Note: STAIGER (2002) states, that the eastern atlantic species commonly identified as *Graphina anguina* does not belong to this species. STAIGER (l. c.) introduced the new name *Graphis britannica* for this taxon so far not distinguished. *G. anguina* will be deleted in the next edition of the checklist.
- Gyalectidium membranaceum* Sérus. & Lücking
 A: -; M: -; C: FERRARO & al. 2001: 339
- Gyalectidium minus* Sérus.
 A: -; M: -; C: FERRARO & al. 2001: 340
- Hemigrapha atlantica* Diederich & Wedin
 Host: *Sticta canariensis* (1)
 A: DIEDERICH & WEDIN 2000: 208; M: -; C: -
- Hypogymnia tavaresii* D.Hawksw. & P.James
 A: -; M: MIES & LÖSCH 1995: 196; C: HAWKSWORTH 1973: 454
- Lecania turicensis* (Hepp) Müll.Arg.
 A: -; M: MAYRHOFER 1988: 110; C: -
- Leiorreuma lyellii* (Sm.) Staiger (syn. *Phaeographis lyellii*)
 A: -; M: TAVARES 1952: 357; C: -
 Note: According to STAIGER (2002) the species previously placed in *Phaeographis* belongs to the genus *Leiorreuma*.
- Lepraria crassissima* (Hue) Lettau
 A: -; M: BOOM et al. 1994: 157; C: -
- Lichenochora coarctatae* (de Lesd.) Hafellner & F.Berger
 Host: *Trapelia involuta* (1)
 A: -; M: -; C: HAFELLNER & BERGER 2000: 32 (1)
- Lichenochora weillii* (Werner) Hafellner & R.Sant.
 Host: *Physconia* spec. (1)
 A: -; M: -; C: HAFELLNER 2002b: 13 (1)
- Lichenostigma cosmopolites* Hafellner & Calatayud
 Host: *Xanthoparmelia somloensis* (1), *Xanthoparmelia tinctina* (3)
 A: -; M: - C: HAFELLNER & CALATAYUD 1999: 108 (1, 2)
- Lichenostigma diploiciae* Calatayud, Nav.-Ros. & Hafellner
 Host: *Diploicia subcanescens* (1)

- A: CALATAYUD & al. 2002: 1231 (1); M: - C: CALATAYUD & al. 2002: 1231 (1)
Lichenostigma subradians Hafellner, Calatayud & Nav.-Ros.
 Host: *Acarospora lavicola* (1), *Acarospora* subgen. *Acarospora* spec. (2)
 A: -; M: - C: CALATAYUD & al. 2002: 1239 (1)
- Myxophora leptogiophila* (Minks ex G.Winter) Nik.Hoffm. & Hafellner
 Host: *Collema subflaccidum* (1)
 A: HOFFMANN & HAFELLNER 2000: 65 (1); M: -; C: -
- Neocoleroa inundata* (Vain.) Diederich
 Host: *Bacidina* spec. (1)
 A: -; M: SERUSIAUX & al. 1999: 58 (1); C: -
- Ochrolechia parella* (L.) A.Massal. f. *striata* Versegly
 A: -; M: -; C: VERSEGHY 1962: 369
 Note: The taxonomic value of this forma is unclear.
- Ochrolechia szatalaensis* Versegly
 A: -; M: PURVIS & al. 1994: 47; C: FOLLMANN 1975a: 26; FOLLMANN 1975b: 216
- Opegrapha foreau* (Moreau) Hafellner & R.Sant.
 Host: *Heterodermia leucomelaena* (1)
 A: -; M: -; C: HAFELLNER 2002b: 14 (1)
- Parmeliella nigrocincta* (Mont.) Müll.Arg.
 Note: According to JØRGENSEN (2000a) *P. nigrocincta* s. str. is not present in Laurimacronesia. The records should pertain to *P. miradorensis*. The species will be deleted from the next version of the checklist.
- Parmeliella miradorensis* Vain.
 A: -; M: ARVIDSSON & WALL 1985: 45 (sub *P. nigrocincta*); JØRGENSEN 2000a: 143; C: TAVARES 1952: 360 (sub *P. nigrocincta*); JØRGENSEN 2000a: 143
- Pertusaria ficorum* Zahlbr.
 A: HANKO 1983: 76; M: -; C: TOPHAM & WALKER 1982: 69
- Phaeophyscia rubropulchra* (Degel.) Essl.
 A: BERGER et al. 1998: 408; M: -; C: -
- Phaeopyxis punctum* (A.Massal.) Rambold, Triebel & Coppins
 Host: *Cladonia* spec. (1)
 A: Hafellner 2002b: 14 (1); M: KALB & HAFELLNER 1992: 80 (1); C: -
- Plectocarpon macaronesiae* Diederich, Etayo & Sérus.
 Host: *Lobaria pulmonaria* (1), *Lobaria sublaevis* (2)
 A: DIEDERICH & ETAYO 1994: 592 (1); M: DIEDERICH & ETAYO 1994: 592 (1, 2); C: DIEDERICH & ETAYO 1994: 592 (1)
- Plectocarpon scrobiculatae* Diederich & Etayo
 Host: *Lobaria scrobiculata* (1)
 A: -; M: HAFELLNER 2002b: 14 (1); C: HAFELLNER 1995b: 140 (1)
- Polycoccum arnoldii* (Hepp) D.Hawksw. s.str.
 Host: *Diploschistes scruposus* (1)
 A: -; M: - C: BERGER & PRIEMETZHOFFER 2000: 72 (1)
- Porina ahlesiana* (Körb.) Zahlbr.
 A: -; M: -; C: MCCARTHY & ETAYO 2002: 201
- Porina atlantica* (Erichsen) M.Jørg.
 A: -; M: -; C: ERICHSEN 1926: 276
 Note: In the checklist of 1995 it was argued, that *Ocellularia atlantica* Erichsen might be a synonym of *Thelotrema subtile* Tuck. After the reinvestigation of the type JØRGENSEN (2000b) concluded that the species belongs to *Porina*.

- Porina fortunata* P.M.McCarthy & Etayo
A: -; M: -; C: MCCARTHY & ETAYO 2002: 201
- Pseudocyphellaria arvidssonii* D.J.Galloway
A: -; M: -; C: TØNSBERG 1999: 128
- Pyrenidium actinellum* Nyl.
Host: *Leptochidium albociliatum* (1), *Pseudocyphellaria crocata* (2),
Baeomyces spec. (3)
A: MARTÍNEZ 2002: 60 (3); M: MARTÍNEZ 2002: 60 (2); C: HAFELLNER 1996b: 6 (1)
- Rhymbocarpus cruciatus* (Sherwood, D.Hawksw. & Coppins) Etayo & Diederich
Host: *Diploicia canescens* (1)
A: -; M: -; C: DIEDERICH & ETAYO 2000: 439 (1)
Note: According to DIEDERICH & ETAYO (2000) the species originally published in *Skyttea* belongs to the genus *Rhymbocarpus*.
- Rhymbocarpus fuscoatrae* (Hafellner) Diederich & Etayo
Host: *Lecidea fuscoatra* (1)
A: -; M: HAFELLNER 1996c: 136 (1); C: HAFELLNER 1996c: 136 (1)
Note: According to DIEDERICH & ETAYO (2000) the species originally published in *Llimoniella* belongs to the genus *Rhymbocarpus*.
- Rhymbocarpus neglectus* (Vain.) Diederich & Etayo
Host: *Lepraria* spec. (1)
A: -; M: HAFELLNER 1995a: 430 (1); C: -
Note: According to DIEDERICH & ETAYO (2000) the species does not belong to *Llimoniella* but to *Rhymbocarpus*.
- Rinodina ericina* (Nyl.) Giralt
A: -; M: KALB & HAFELLNER 1992: 87; C: TOPHAM & WALKER 1982: 62
Note: According to GIRALT (2000) *Buellia ericina* and *Rinodina madeirensis* are conspecific.
- Roccella tuberculata* Vain.
A: MIES & LÖSCH 1995: 196; M: TAVARES 1952: 358; C: TAVARES 1952: 358
- Sclerococcum tephromelarum* Etayo & Calatayud
Host: *Tephromela atra* (1)
A: -; M: -; C: HAFELLNER 2002b: 14(1)
- Scoliciosporum vouauxii* (de Lesd.) Hafellner
Host: *Ramalina webbii* (1)
A: -; M: -; C: BOULY DE LESDAIN 1911: 661 (1)
Note: According to HAFELLNER (2002a) the species originally published as *Bilimbia vouauxii* belongs to the genus *Scoliciosporum*.
- Skyttea caesii* Diederich & Etayo
Host: *Mycoblastus caesius* (1)
A: -; M: -; C: DIEDERICH & ETAYO 2000: 432 (1)
- Skyttea hawksworthii* Diederich
Host: *Verrucaria* spec. (1)
A: -; M: -; C: HAFELLNER 2002b: 15 (1)
- Skyttea lecanorae* Diederich & Etayo
Host: *Lecanora chlorotera* (1)
A: -; M: -; C: DIEDERICH & ETAYO 2000: 439 (1)
- Skyttea pyrenulae* Diederich, Etayo & Coppins
Host: *Pyrenula occidentalis* (1), *Pyrenula* spec. (1)
A: DIEDERICH & ETAYO 2000: 444 (2); M: -; C: Hafellner 2002b: 15 (1)
- Sphaerellothecium parmeliae* Diederich & Etayo
Host: *Pamelia saxatilis* (1)
A: -; M: -; C: HAFELLNER 2002b: 15 (1)
- Stigmatidium epixanthum* Hafellner

- Host: *Acarospora* subgen. *Acarospora* spec. (1)
A: -; M: -; C: HAFELLNER et al. 2002: 316 (1)
- Thelotrema subtile* Tuck.
A: HAWKSWORTH 1992e: 600; M: KALB & HAFELLNER 1992: 92 (not confirmed by PURVIS et al. 1995, the specimen belongs to *T. petraetoides*); C: TAVARES 1952: 320, 358 (doubtful)
Note: The existence of this species in the Old World is generally questioned (JØRGENSEN 2000b). *Ocellularia atlantica* is not a synonym of *Thelotrema subtile* as previously argued (see further above under the name *Porina atlantica*).
- Trematosphaeriopsis parmiana* (Jacq.) Elenkin
Host: *Xanthoparmelia conspersa* (1)
A: -; M: -; C: HAFELLNER 2001: 382
- Tremella cladoniae* Diederich & M.S.Christ.
Host: *Cladonia furcata* (1)
A: -; M: -; C: HAFELLNER 2002b: 15 (1)
- Tremella lobariacearum* Diederich & M.S.Christ.
Hosts: *Lobaria pulmonaria* (1), *Lobaria sublaevis* (2), *Lobaria immixta* (3)
A: MARTÍNEZ 2002: 62 (3); M: DIEDERICH 1996: 103; C: DIEDERICH 1996: 103
- Tremella parmeliarum* Diederich
Host: *Rimelia reticulata* (1)
A: -; M: -; C: HAFELLNER 2002b: 16 (1)
- Xanthoparmelia phaeophana* (Stirt.) Hale
A: -; M: -; C: SCHWARZ & SCHUMM 1999b: 43

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Second supplement to the lichenological bibliography for insular Laurimacaronesia

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