

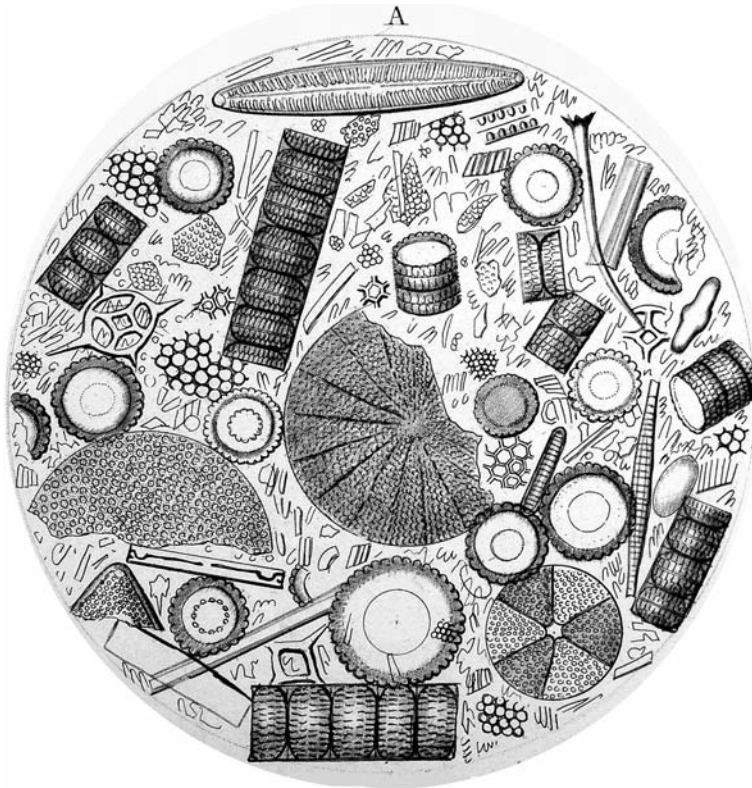
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CATALOGUE OF
DIATOM NAMES

PART I: INTRODUCTION AND BIBLIOGRAPHY



Elisabeth Fourtanier and J. Patrick Kociolek



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Cover image

Ehrenberg Plate 18, fig. A. "Massen-Ansicht im Mikroskop bei 300 maliger Vergrößerung im Durchmesser." Sample from Richmond, Virginia. (Ehrenberg C.G. 1854. *Zur Mikrogeologie. Atlas. Monatsberichte. Berliner Akademie.*)



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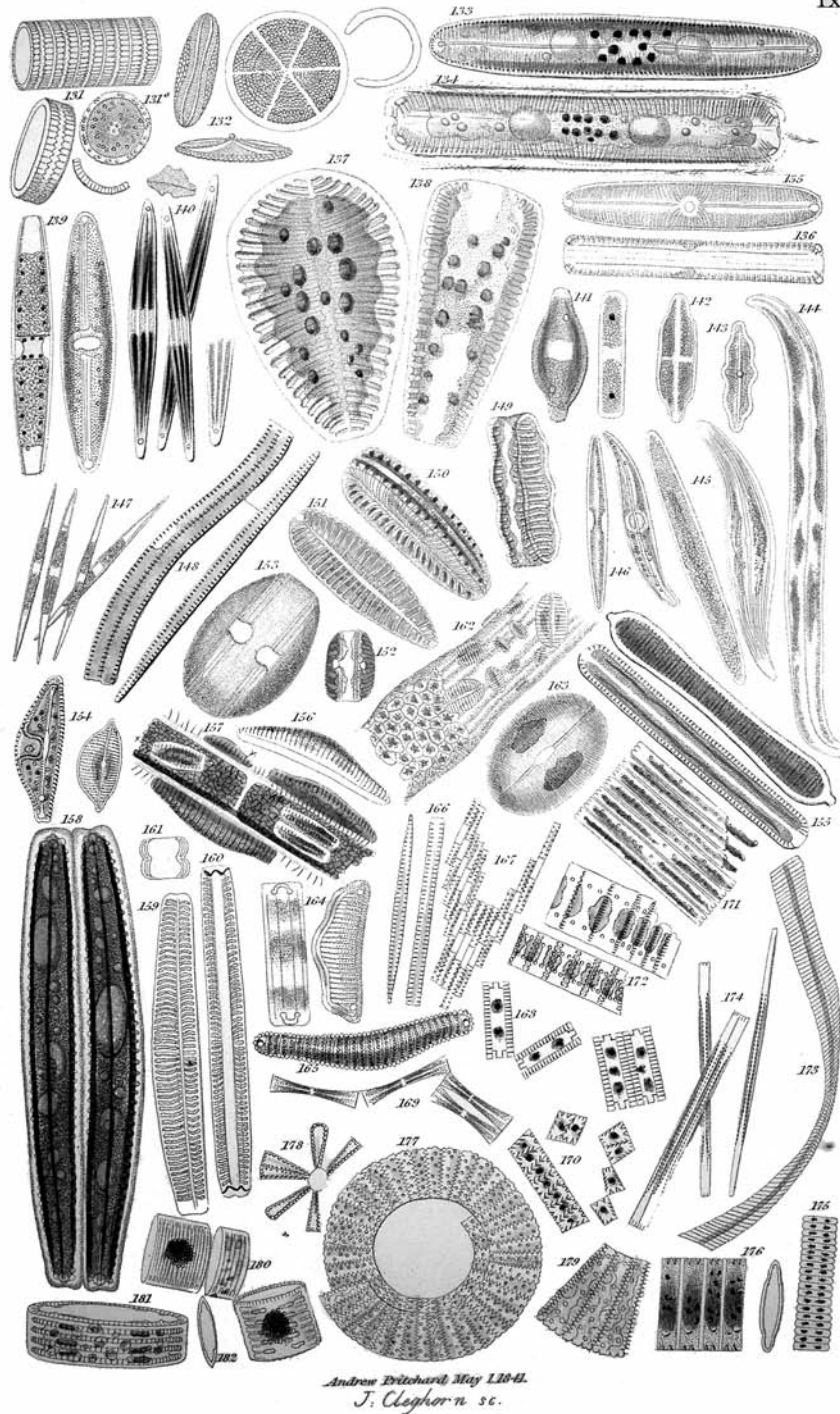
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A. Prichard: Plate 9, Diatoms.

In: A history of infusoria, living and fossil: arranged according to Die infusionsthierchen of C.G. Ehrenberg; containing colored engravings, illustrative of all the genera, and descriptions of all the species in that work, with several new ones; to which is appended an account of those recently discovered in the chalk formations. xii. Edition IV, revised and enlarged by J.T. Arlidge, W. Archer, J. Ralfs, W.C. Williamson and the author. London, Whittaker and Co., 1861. xiii + 968 pp., 40 pls.

Catalogue of Diatom Names

Part I: Introduction and Bibliography

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INTRODUCTION

AIMS OF THE CATALOGUE

The “Catalogue of Diatom Names” is a compilation of names of diatom genera, species and taxa at infra-specific ranks. It is generated from the Database of Verified Diatom Names at the California Academy of Sciences (CAS). We provide for each name relevant information such as authorship, place and date of publication with page and figure numbers where the taxon was described and illustrated, basionym or replaced synonym when applicable, and nomenclatural status.

Our aim was for this compilation to be as complete and as accurate as possible. Most of the names in this index have been verified against the publications in which they were originally published. We have made great efforts to include all new names at least up to the year 2000, which represents an addition of 18,000 names to the 44,000 names in VanLandingham’s Catalogue (VLC). More omissions may be found in the period between 2000 and 2006. In addition to valid names, many invalid names are included. The invalid names are indicated as such with an explanation. In the absence of such indication, names are assumed to be valid. Our assessments of the nomenclatural status (validity) of a name are based on our interpretation of the International Code of Botanical Nomenclature (ICBN). The ICBN cited in this compilation (No. 156, Part. II: *Abas* through *Bruniopsis*) is the St. Louis Code (Greuter et al. 2000). As the ICBN rules are subject to change, these assessments may need to be revised. Current versions of the ICBN (e.g., McNeill et al. 2006) will be used for subsequent volumes of the Catalogue. We also kept all the “sensu” that are listed in the Catalogue of VanLandingham, most of which do not have nomenclatural standing.

We have not expressed taxonomic opinions in this compilation. In previous catalogues (e.g., Peragallo 1897-1903; Mills 1933-1934; VanLandingham 1967-1978), authors indicated whether they considered a name taxonomically valid, using a different print for the synonym that they believed should be used than for the synonyms they believe should not be used. In these previous catalogues, a list of synonyms (nomenclatural = homotypic, and taxonomic = heterotypic) was given with each name. Taxonomic synonyms are not listed in this catalogue. This deserves an explanation, since many users of VLC have become accustomed to having this as part of a “names” catalogue. Such declarations of taxonomic synonyms are hypotheses of relationships and identity. As such, they require data to support such hypotheses, including examination of types and other aspects of revisionary studies. In the past, such data have been scarce or lacking. Given the scope of this work, we could not offer the types of information and data required to responsibly suggest taxonomic synonymy. Nomenclatural synonyms such as basionyms or replaced synonyms are given. A complete list of nomenclatural synonyms for a given name, however, can be obtained only by searching an electronic version of the database.

This first part includes all the literature cited (4,760 references) for the entire *Catalogue of Diatom Names* (ca. 62,600 name entries). The subsequent volumes will contain only diatom name entries, with a small supplemental bibliography section as needed.

HISTORY OF CATALOGUES OF DIATOM NAMES

The study of diatoms emerged in the early 1800s (e.g., Agardh’s 1830-1832 *Conspectus Criticus Diatomacearum*; Bory 1822-1831 in *Dictionnaire Classique d’Histoire Naturelle*). In 1832 there were about 500 published diatom names. From that time the description of new diatoms and the proliferation of new names accelerated, thanks to progress in microscopy, and to the remarkable contributions of authors such as Ehrenberg and Kützing. About 4,000 diatom names were published in the 20-year span between 1833 and 1854 (inclusive). Important contributors in the second half of the 19th century include Gregory, W. Smith, Greville, Grunow, Ralfs, Rabenhorst, Cleve, A. Schmidt, Van Heurck, Pantocsek, Rattray, the Peragallo brothers, and De Toni. By the end

of 1903, about 25,000 names had been published. Some large monographs/compilations also appeared during that period: Ralfs in Pritchard's *An History of Infusoria, including the Desmidiaceae and Diatomaceae* (1861), is a very exhaustive compilation of the state of knowledge on the diatoms at the time. Similarly, De Toni's *Sylloge Algarum* (1891-1894) is a remarkably complete taxonomic treatment of diatoms and other algae. Other major contributions were more narrow in scope, such as Pantocsek's *Beiträge zur Kenntnis der Fossilen Bacillaria Ungarns* (1886-1905), H. & M. Peragallo's *Diatomées Marines de France* (1897-1908), and Van Heurck's *Synopsis des Diatomées de Belgique* (1880-1885). In the monumental "*Atlas der diatomaceen-Kunde*" (1874-1959) initiated by A. Schmidt, an estimated 10,000 diatom taxa are illustrated, including ca. 2,000 new to science.

The first catalogues that were intended mainly as indices of diatom names, not as monographs or taxonomic revisions, were published at the end of the 19th century. These include Habirshaw's "*Catalogue of the Diatomaceae with Reference to the various published Descriptions and Figures*", published in New York in 1877 (265 pp., handwritten, reproduced with the Edison Electric Pen process). This first edition was followed by several others, published in very small numbers; all are quite rare. A second edition (1881), with xxii + 58 pp. printed pages, was published and edited by R. Hitchcock; it is incomplete covering only the first part (to *Bacillaria*). Another edition (1885), with 343 +11 hand-written pages, was published by H.H. Chase. According to VanLandingham (1969, vol. 3, p. 1689) Chase published a fourth edition (351 pp.) in 1887 and a fifth edition (501 pp.) in 1894. Both VanLandingham (1969) and De Toni (1891) suggest a unique typed copy had been made for Julien Deby. This copy is often cited by De Toni (1891, 1894) ("Habirsh.-Chase Cat. 1888", "exemplar Debyanum"). Chase also published another edition in 1907 (662 pp., "done on the type-writer"). This copy, present in the CAS library, is not mentioned by VanLandingham or Stafleu & Cowan (1979). According to Stafleu & Cowan, there is also a French edition ("édition française revue et augmentée par J. Pelletan, Paris 1879"). About 6,500 names are listed in Chase 1885. The catalogues of Habirshaw consist of an alphabetized list of diatom names organized by genus, followed by authorship and a bibliographic reference in abbreviated form. Other citations of the names are also included, and some synonyms are listed. There is no interpretation on whether a listed name is "accepted" or not.

The *Catalogue Général des Diatomées* was published by Maurice Peragallo in 16 handwritten lithographed fascicles (32 pages in 4^{to} printed on one side), according to a partial copy at CAS. Another complete copy at CAS is bounded in two volumes dated 1897 and 1903 respectively. Peragallo remarked in his introduction on the number of synonyms that were cluttering the nomenclature, and the number of "uncertain" names for species described by older authors without adequate description, illustration, and ambiguous types. He wrote: "maintenant que l'étude des Diatomées se répend l'établissement d'un Catalogue et la révision de la nomenclature des Diatomées est absolument indispensable; c'est là le but que je me suis proposé, heureux si je puis ainsi être utile à ceux qui s'occupent de Diatomées". Peragallo used Habirshaw's catalogue as a starting point, adding as many names as possible. Unlike Habirshaw, Peragallo made interpretations. He listed synonyms, and offered his opinion as to which names should be retained ("conservés") (round characters) and which should not be used, at least for now ("espèces...clairement synonymes ou dont les documents existant à leur sujet n'ont pas permis une définition suffisante") (italic characters). The data include name of the taxon, authorship, place and date of publication (in abbreviated form), synonyms, other citations of the name, and, indicated by the type of print, an opinion regarding the value of a name (round characters: to keep, italics: to drop). The *Catalogue Général des Diatomées* lists about 17,000 names.

With further developments in diatom studies in the early part of the 20th century, the need for a new catalogue was filled by Mills, who published *An Index to the Genera and Species of the Diatomaceae and their Synonyms* between 1932 and 1935. There are an estimated 26,000 entries in Mills' Index. Mills explains in his introduction that his "Index" was originally compiled as a reference for his own use, originally based on the Catalogue of Habirshaw, however it was discontinued for a time on the issue of Peragallo's Catalogue. During the following 30 years he had indexed all the new species, noted the alterations in nomenclature rendered necessary in Peragallo's work. He published the work at the urging of his friends. The format is very similar to that of Peragallo's; an opinion is given whether a species is "recognized" (capital letters) or synonym (small type). Entries include some synonyms and citations.

With the aim of continuing the compilation of Mills, and keeping the list of diatom names current, two unpublished card files, the "*New Species File*" and the "*Bibliography file*", were created around 1930 under the di-

rection of Ruth Patrick, at the Diatom Herbarium of the Academy of Natural Sciences of Philadelphia (ANSP). For many years, the files were maintained by Diatom Herbarium staff, particularly Margaret “Peg” Henderson and Su-Ing Yong, supervised by Charles Reimer; since 2003, the files have been maintained by staff in the Patrick Center’s Phycology and Project Support Sections in consultation with Drs Patrick and Reimer (See Keller et al. 2005). Starting in 2004 new additions are computerized. The Files are unpublished but are available for consultation by visitors at ANSP. Information recorded in the “*New Species File*” includes, as in Mills, the scientific name with authorship, place and year of publication, pages, and comments on the nomenclatural status. Copies of the original illustrations and descriptions are also recorded.

VanLandingham’s *Catalogue of the Fossil and Recent Genera and Species of Diatoms and their Synonyms* (VLC) was published in 8 volumes between 1969 and 1979, and covers diatom names published up to the year 1964. Intended as a revision of Mills’ Index, VLC contains 44,000 entries (18,000 more than Mills), including 4,000 entries of names published before 1935, which were omitted from Mills’ Index. VanLandingham corrected some of the errors in Mills (some traceable to earlier catalogues), but not all. He consulted the New Species File at ANSP but also used other sources, and added names published post 1930 that do not appear in the ANSP “New species File” (ca. 3,500 entries). A departure from Mills in the format is the dropping of the use of abbreviations: authorships are spelled out, and full references are to be found at the end of each volume. This adds clarity, and the fact that no system is provided to distinguish among several references published by an author in the same year is usually not a problem. VanLandingham also provides taxonomic interpretations, following in many cases the opinions of Hustedt: “In most cases, the opinions and interpretations of P.T. Cleve will be continued in the present work as they were in the Mills Index (except in cases of conflict with Hustedt)”. Besides this statement in the introduction of his first volume (1967, p. vii), VanLandingham does not indicate the origin of the taxonomic interpretation. Although these interpretations are subjective, the list of synonyms is of value to anyone interested in a particular taxon. Like Mills, VanLandingham uses upper case letters for “valid taxonomic entries: the continued use of which is recommended”, and lower case letters for “invalid, poorly described, or doubtful taxonomic entries, the use of which is not recommended. Synonyms of taxonomic units in upper case letters are presented in lower case letters”. VanLandingham reminds the readers in the Introduction to his last volume (1979) “those entries presented in lower case letter (uncapitalized) do not imply that there is anything invalid or wrong with that taxon; many of these “synonyms” are simply a matter of convenience for the author of this catalogue. We are all reminded that taxonomy is always subject to debate, and that there is no such thing as a taxonomic truth”.

The *Index Nominum Algarum* (INA) contains ca. 200,000 cards of algal names (including an estimated 40,000 diatom cards) and is housed at the Herbarium of the University of California, Berkeley. The INA has been compiled by Paul Silva since 1949 and contains nomenclatural information (including type information) directly derived from examination of original publications. It is accompanied by a card file containing bibliographic references, the *Bibliographia Phycologica Universalis* (BPU). Entries made after 1986 are computerized. The INA is available online at <http://ucjeps.berkeley.edu/INA.html>. The INA is largely not computerized, but the cards have been scanned and can be easily viewed as image files on the Herbarium website. All of the diatom cards have been indexed and are easy to find. Despite some omissions (the INA is missing ca. 20,000 diatom names, about 15,000 of which are valid), it is a very valuable resource. The data have been very competently and carefully entered, and the occurrence of errors is extremely rare. The INA entries also include statements on the nomenclatural status (valid, unless otherwise indicated), and cite types, and original localities.

The *Ellis & Messina Catalogues* (Micropaleontology Press) first launched by Brooks Ellis (assisted by Angelina Messina) were the *Foraminifera Catalogue* (1934), and the *Ostracoda* (1952). The first volume of the *Diatom Catalogue* was published in 1982. There are currently 8,000 entries in the *Diatom Catalogue*. The catalogue, which focuses on fossil taxa, reproduces the complete type descriptions for genus- and species-level taxa, including full-size reproduction of original figures and charts. Diagnoses in western European languages are given verbatim, while those in Russian, Chinese, and other non-western languages are translated by professional micropaleontologists. The stratigraphic level, locality and depository of the type material are given for each taxon, and bibliographic references and taxonomic terms are expanded and verified against the Ellis and Messina database. Between 200 and 300 taxa are added yearly to each catalogue. The catalogues are available online to subscribers (http://micropress.org/e_m.html).

APPROACHES TO DEVELOPING THIS COMPILATION

In the 30 years following the publication of the Catalogue of VanLandingham, thanks to progress in diatom research, and microscopy (SEM), many new diatom taxa were described and there is today an urgent need for an updated catalogue. In the process of preparing this catalogue, we discovered that 11,700 new names were published between 1965 and 2007. In addition, there are over 6,000 names published in or before 1964 that were not included in VanLandingham's catalogue.

Because of the availability of computers, a different approach was taken to develop this catalogue. Our data are organized in a database (currently FileMakerPro version 8.0v2). This allows for many options to search, sort and export the data. Previous catalogues could be used only alphabetically. In this database, for example, one could search for all taxa named by a certain author, or all for all species named during a certain time period, or in a certain article. The database is now available on-line (<<http://research.calacademy.org/research/diatoms/names/index.asp>>). The present catalogue/index is a text document generated from the database, with names of taxa listed in alphabetic order.

This catalogue attempts to be as complete and accurate as possible. We have verified the information against original publications in most cases. Authors are cited in full (not abbreviated), a publication number is attached to each entry to remove any ambiguity in the case of several publications by the same author in a same year.

Our most significant deviation from the format of the catalogue of VanLandingham is that we do not offer taxonomic opinions. As discussed previously, we do not list taxonomic synonyms, and usually do not offer references to citations and other taxonomic treatment of a particular taxon. Besides the subjective nature of taxonomic opinions, the task of properly and professionally collecting, sorting and evaluating such opinions seemed unrealistic given our resources. Similarly unrealistic would be to attempt to establish, for each taxon, a complete list of suggested synonyms, or a complete list of citations. The synonymies suggested by VanLandingham, however, have been entered in the database, and could be retraced through a fairly simple search. Another significant difference with the catalogue of VanLandingham is that we have interpreted the nomenclatural status (valid/invalid) of most names.

THE MAKING OF THIS CATALOGUE

This project was initially funded by an National Science Foundation grant to Patrick Kociolek (DEB-9505269).

The data are organized in a relational database (FileMakerPro) comprising three main tables: a "publication" table, a "genus" table, and a "species" table for names of diatoms at species and infraspecific ranks.

We started with building the publication table from a compilation of our own holdings and the references listed at the end of each volume of VanLandingham's catalogue. This publication database continues to be updated (12,654 records as of July 2007).

During the years 1997-1998, a table of verified names of diatom genera was built that resulted in the publication of the "Catalogue of diatom genus names" (Fourtanier & Kociolek 1999).

Around the same time, we started the construction of the "species table". Staff at CAS entered data from VanLandingham's *Catalogue* (44,000 entries). The information was split among various fields. Additional fields were added later as we improved the database. Once the data were entered, we divided the database into two sections: (a) names published after 1930 (i.e. post Mills) and (b) names published up to 1930. The names published after 1930 were then sent to ANSP (13,500 diatom names), where the Diatom Herbarium staff under the supervision of Charles Reimer compared the VLC entries against the New Species File (NSF) (22,000 NSF cards post Mills). Based on this comparison, diatom staff at ANSP noted when discrepancies occurred between NSF and VLC data (2,500 discrepancies); they added 12,000 names as well as their corresponding bibliographic references to the publication table.

Meanwhile the Diatom staff at CAS started verifying VLC data for those names published on or before 1930 (30,500 diatom names) against the original references, correcting inaccuracies such as page, authors citations, and original reference. We also took note of the nomenclatural status of names (valid/invalid).

During this process, we added a few names as we came across publications that had not been previously processed (ca. 1,000 names including 100 published before 1964). We then combined the work done on the pre-1930 names and the post-1930 names into a single database.

In 2003–2004, we compared the database at CAS with the *Index Nominum Algarum* (INA). Paul Silva and Richard Moe generously provided us with an electronic copy of the card files, which facilitated the process. We added 4,600 names from the INA that were missing from our compilation (including 3,400 pre-1930 names). We also noted discrepancies between the INA cards with our dataset (12,000 discrepancies noted). In this process, we added the corresponding references from the BPU to our species table (1,060 references).

The nature of the discrepancies with ANSP or INA, concerned generally the year of publication, the page or figure citation, the spelling of the name, the citation of the authorship, and sometimes the place of valid publication.

In 2005–2006, we dealt with the discrepancies within the group of names in the “*Abas-Bruniopsis*” section (Part II). We found it most convenient (time saving) to work through the diatom names by author, and by publication within each author. The database was then sorted by alphabetic order of genus and species, and examined for homonyms, redundant new combinations, and lastly for final editing.

During the years 2004–2007, we continued adding new names, attempting to keep up with the literature.

BIBLIOGRAPHY

We have taken the unusual step of publishing in this first Part the bibliography used to produce the entries for the entire *Catalogue*. Like many endeavors, it is tempting to leave to the end the manual or infrastructure required to produce the product. In this volume, we have attempted to put into one place and format the literature we used to verify taxon records that comprise the subsequent ones. Due to the variety of compilers over the years, and the disparate places of publication of diatom names (in botanical, protistology, algal, ecological, paleontological, and microscopy journals, books, and symposium proceedings, many current, others defunct), over the 200+ years of publications, the ways and formats used to list the literature have been quite varied. Here we have tried to standardize the ways even the same journal, let alone journals from different disciplines are presented. In most cases, journal names are spelled out completely. In some cases, we could not ascertain the complete name of the journal, and we have used what appears to the most commonly applied abbreviation for the title.

We expect to continue to track the literature in which new diatom names are proposed and, therefore, will continue to offer addenda to this Bibliography in subsequent volumes of the *Catalogue*.

A unique 6-digit number is attached to each reference in the CAS database. In the context of this *Catalogue*, this number serves also to identify a unique publication and to distinguish publications in the case of multiple publications in a given year by the same author. For each taxon name entry, there is a unique reference number [called a publication number] that corresponds to the publication where the name was published. It is given between square parentheses: example [ref. 000895].

Other references may be cited in the “comments” part of the taxon entries, and those references are given between round parentheses: example (ref. 001035).

Since we put a previous version of this Bibliography on-line several years ago <<http://research.calacademy.org/research/diatoms/names/ref/index.asp>>, we have received many positive comments about its utility. Other references (e.g., Kellogg and Kellogg 2002) have begun to use these publication numbers to help discriminate multiple publications by an author from a single year.

ACKNOWLEDGEMENTS

Many of the references consulted in this work were not at CAS. We gratefully recognize the library staff at CAS, in particular Larry Currie and Patti Shea-Dinner, who arranged for numerous interlibrary loans. Other references were found at the Libraries of the UC Berkeley, and we wish to thank the librarians who assisted us. The *Bibliographia Phycologica Universalis* (BPU) was consulted during this project and we are grateful to Drs Paul Silva and Richard Moe for making this resource available. Other persons who aided by providing other advice or literature include: Drs John Barron, Charles Reimer, Sam VanLandingham, Jean DeMouthe, David Williams, Nina Strelnikova, Galina Khursevich, Marina Potapova, Sarah Spaulding, Robert Edgar, Gene Stoermer, Ditmar Metzeltin, Luc Ector, Michel Coste and Saúl Blanco. We are indebted to Dr. Luc Ector who reviewed the online version of the database and pointed out numerous omissions and to Drs. David Williams and Robert Edgar who

reviewed the entire document and offered many helpful suggestions. Lastly, we thank both Drs. Michele Aldrich, who reviewed the introductory materials, and Alan Leviton (CAS) who, as the Academy's Editor of Scientific Publications, offered excellent editorial advice and encouragement.

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DEDICATION

We dedicate this work to Drs. Ruth Patrick (ANSP), Charles Reimer (ANSP), Paul Silva (UCB), and Sam VanLandingham, all of whom provided inspiration to us and facilitated this work in many ways.

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