

Previous Versions of the BioData Algal Taxonomy

Versioning of the BioData Taxonomic System

Algae Taxonomy Version	Excel File	Production Date	Comments	Put in Production By
1.0	Algae_1.0.xlsx	February 17, 2011	from Pete 17FEB2011	Jesse R Schoeneman
1.3	Algae_1.3.xlsx	April 24, 2012	reviewed and approved, Sarah S April 20, 2012	Sarah A Spaulding
1.4	Algae_1.4.xlsx	April 24, 2012	added: (undifferentiated) diatoms> (dead) (undifferentiated) (diatoms)	Sarah A Spaulding
1.5	Algae_1.5.xlsx	May 17, 2012	edited to remove cond/prov tag from names that are in error	Sarah A Spaulding
2.0	Algae_2.0.xlsx	July 18, 2012	Batch retirement of a set of outdated bench taxa.	Paul D Lindorff
3.0	Algae_3.0.xlsx	July 26, 2012	Edited BioData names: Undifferentiated dead diatoms from soft algae count Undifferentiated diatoms from soft algae count Bacillariophyceae	Sarah A Spaulding
4.0	Algae_4.0.xlsx	August 19, 2012	Incorporation of names from the Diatoms of the United States web project - addition of new names, editing of existing names, transfer of names to new rank. Added Navicula vaneei 93252	Sarah A Spaulding
5.0	Algae_5.0.xlsx	October 5, 2012	Correcting and normalizing published authorities.	Paul D Lindorff
5.1	Algae_5.1.xlsx	October 9, 2012	In previous versions, bench names were linked to "concept reference". Algal "concept references" commonly have very long strings that were easy to misspell by labs and others. In an effort to allow users to clarify names in a more natural way, authorship of species (that is, for BioData Bench Names) were added in this version. - S. Spaulding	Paul D Lindorff
5.2	Algae_5.2.xlsx	October 10, 2012	Made adjustments in response to Mitch's ANSP test load of Oct. 10, 2012: ADDED Biremis sp. 1 ? Staurosirella incognita Morales and Manoylov NADEDID 1430 Unknown Cyanophyte (fasciculated sheath) MOVED TO DEPRECATED (undifferentiated) diatoms> (dead) (undifferentiated) diatoms> (dead) Gomphonema aff. minutum ANS NAWQA EAM Gomphonema sp. 2 ANS NEW JERSEY KCP Homoeothrix sp. 1 ANS OZRK Navicula aff. subminuscula ANS NAWQA EAM Synedra sp. 8 NAWQA MORALES Unknown Chlorophyte coccoid Unknown Cyanophyte (colonial coccoid) Unknown Rhodophyte Florideophycidae (chantransia)	Sarah A Spaulding
5.3	Algae_5.3.xlsx	January 27, 2013	In this version, new names, transfers and corrections from the Diatoms of the US project and the diatom ANS 2011 list are added. Note that the soft algae from the ANS 2011 are not included. The changes cover adding 165 published names, 153 biodata names, 625 bench names; modifying 113 published names, 110 biodata names, 362 bench names; deleting 57 published names, 56 biodata names.	Sarah A Spaulding
6.0	Algae_6.0.xlsx	January 27, 2013	New names and transfers of soft algae nomenclature from the ANS 2011 are included.	Sarah A Spaulding
6.1	Algae_6.1.xlsx	May 2, 2013	Changed "Achnantheidium minutissimum capitata morph" from appearing as a scientific name to "Achnanthes minutissima var. capitata", which is a valid taxon. Note that there are a number of varieties of Achnanthes minutissima that have not been transferred (in published literature) to Achnantheidium minutissimum. As a result, species, varieties and forms appear in both Achnanthes and Achnantheidium. This will be confusing to users. Deleted "Achnantheidium minutissimum fo. linear lanceolata no stauros" as a scientific name and moved the member bench taxon names to "Achnantheidium minutissimum". Changed rank of Cymbopleura crassipunctata from subspecies (which was my error in entry) to species	Sarah A Spaulding
6.2	Algae_6.2.xlsx	May 7, 2013	This draft was produced to correct a sorting problem that was likely introduced in one of the previous batch updates; no taxonomic changes should be included; see BIODATADB-3522; sibling sort order should have been the only value to change for any given taxon and it should have only changed from "1" to null; the 9 phyla should have kept their original 1-9 sibling sort orders.	Scott A Grotheer
6.3	Algae_6.3.xlsx	October 18, 2013	Minor edits in scientific names and authors were made in response to feedback from Dawn Hamilton at Ecoanalysts. BIODATATAXONNAME PUBLISHED SORT ORDER SCIENTIFICNAME Notes - dlh SAS resolution SAS notes Woloszynska coronata 3000099 Woloszynska coronata (Woloszyńska) Thompson added - in author name yes corrected to Woloszyńska Tryblionella debilis 3006009 Tryblionella debilis Arnott ex O'Meara added ' in author name yes corrected to O'Meara Treubaria setigerum 3000732 Treubaria setigerum (Archer) G. M. Smith G. M. vs. G.M. yes corrected to G.M. Smith Treubaria planctonica 3000730 Treubaria planctonica (G.M. Smith) Korshikov G. M. vs. G.M. yes should be G.M., as shown here Trachelomonas armata var. longispina 3002694 Trachelomonas armata var. longispina Playfair emend Deflandre Extra space after var. yes corrected Scenedesmus obscura 3000821 Scenedesmus should have sp. name in sci name yes 1) removed "in Van Heurck" from SN 2) added bench concept that lacks "in Van Heurck" Porphyrosiphon luteus 3003768 Porphyrosiphon luteus (Gomont) Anagnostidis and Komárek extra space after genus yes corrected Nitzschia linearis 3005764 Nitzschia linearis (Agardh) Smith Should this be W. Smith? yes corrected to read "W. Smith" Nitzschia liebethuthii var. major 3005761 Nitzschia liebethuthii var. major Grunow liebethuthii or liebethuthii? NO in progress - trying to move in db - should be liebethuthii Nitzschia liebethuthii 3005759 Nitzschia liebethuthii Rabenhorst we standardized on liebethuthii since they both seem to be correct but can change if you decide otherwise NO in progress - trying to move in db Nitzschia brevissima Nitzschia brevissima Grunow in Van Heurck Has the "in" notation for the author yes Under BioData BenchTaxonName, both Nitzschia brevissima Grunow and N. brevissima Grunow in Van Heurck are included as "current names". I deprecated N. brevissima Grunow in Van Heurck to "retired" status. Mayamaea permitis 3008340 Mayamaea permitis (Hustedt) Bruder and Medlin extra space after genus yes corrected Lyngbya nordstedt 3003434 Lyngbya should have sp. name in sci name yes Neither INA nor Algaebase include the species name L. nordstedt. This could be an transposing error with Lyngbya distincta (Nordstedt) Schmidle. Until I can confirm it is a valid taxon it will be "reported out" at the genus level. Cosmarium simonyi 3001542 Cosmarium should have sp. name in sci name yes Neither INA nor Algaebase include the species name C. simonyi, therefore, until I can confirm it is a valid taxon it will be "reported out" at the genus level (Cosmarium). Cosmarium minor 3001541 Cosmarium should have sp. name in sci name yes INA does not include Cosmarium minor; Algaebase includes it, but does not show authorship or publication. I am not able to confirm that this is a validly described taxon. Therefore, when labs report C. minor, BioData will "report out" as Cosmarium, without specifying a species Achnanthes minutissima var. jackii 3005079 Achnantheidium jackii Rabenhorst should not be var. yes 1) changed BioDataTaxonName to Achnantheidium jackii 2) added BenchName Achnantheidium jackii Rabenhorst	Sarah A Spaulding
6.4	Algae_6.4.xlsx	October 21, 2013	Added correct spelling of Nitzschia liebethuthii (removed N. liebethuthii).	Sarah A Spaulding
6.5	Algae_6.5.xlsx	March 21, 2014	Minor edits - moved to production to make a blank slate for the major changes to the diatom hierarchy.	Sarah A Spaulding
7.0	Algae_7.0.xlsx	March 25, 2014	Version 7.0 covers updates to the higher level nomenclature within the chrysophytes and diatoms (Bacillariophyta). This update incorporates treatment of the stramenopiles (heterokont algae) and recognizes the Phylum Haptophyta. Previously, diatoms were included in two orders (Order Centrales and Order Pennales). Now, many new orders are included, for example, orders Cymbellales, Lyrellales, and Mastogloiales, so that numerous orders are now recognized. The update follows discussion with Tom Orrell and Ling Ren, at the Smithsonian Institution and the Integrated Taxonomic Information Service (ITIS). This update is intended to be consistent with the planned ITIS update, except that BioData uses the Phylum Heterokontophyta rather than Phylum Ochrophyta. Molecular phylogenetic literature was considered in the update, including Medlin and Kaczmarska (2004), Adl et al. (2005), discussions on ALGAE-L, AlgaeBase and others. Documentation is available from S. Spaulding. The changes in Version 7.0 do not impact genus or species names, BioData names, or Bench names.	Sarah A Spaulding
8.0	Algae_8.0.xlsx	April 29, 2014	Added and modified bench, biodata, and published taxa in Neidium amphiomphus to solve an ETL issue with BioTDB	Scott A Grotheer
8.1	Algae_8.1.xlsx	July 15, 2014	Update to account for names used in the ANSP "autecology_taxon" table for metrics. Add list of names as requested by P. Ruhl	Sarah A Spaulding
8.2	Algae_8.2.xlsx	July 16, 2014	Addition of two Eolimna species bench names	Sarah A Spaulding
8.3	Algae_8.3.xlsx	July 17, 2014	Added Ulnaria sp. as a provisional BioData and Bench name to the existing published name; no NADED ID added	Scott A Grotheer
8.4	Algae_8.4.xlsx	December 23, 2014	Continued addition of taxa from ANSP autecology_taxon list. Corrected Encyonema tumida to Cymbella tumida, in response to analyst inquiries.	Sarah A Spaulding

8.5	Algae_8.5.xlsx	January 14, 2015	Included alternate spelling of <i>Diploneis peterseni</i> (<i>petersenii</i>) so that both forms are accepted as bench names. The correct scientific name is <i>D. petersenii</i> Hustedt.	Sarah A Spaulding
8.6	Algae_8.6.xlsx	February 6, 2015	Addition of new names to and reactivation from retirement for a number of taxa found in the current EPA NRSA. List submitted by Gina LaLiberte. The new references are not linked - I spoke with Mitch about this bug and hope to have resolved soon so that I can link reference codes.	Sarah A Spaulding
8.7	Algae_8.7.xlsx	May 13, 2015	minor corrections based on feedback from analysts - Melissa Vaccarino, Alex Valigosky	Sarah A Spaulding
9.0	Algae_9.0.xlsx	September 22, 2015	Transfer of taxa formerly in <i>Cyclotella</i> , <i>Puncticulata</i> and <i>Handmannia</i> into the older name with priority, <i>Lindavia</i> (Nakov et al. 2015). 90 species were transferred in this publication, all names in BioData are transferred accordingly.	Sarah A Spaulding
9.1	Algae_9.1.xlsx	December 16, 2015	NO COMMENT	Sarah A Spaulding
9.2	Algae_9.2.xlsx	April 5, 2016	Added nominal forms of names for work to coordinate NAWQA and EPA datasets	Sarah A Spaulding
9.3	Algae_9.3.xlsx	April 26, 2016	partial addition of taxa for SESQA, NRSA 2008, NRSA 2013, more to come in next version	Sarah A Spaulding
9.4	Algae_9.4.xlsx	May 2, 2016	continuation of addition of taxa for SESQA, NRSA 08, NRSA 13 changed the status of names from retired to current based on request from EcoAnalysts lab	Sarah A Spaulding
9.5	Algae_9.5.xlsx	June 16, 2016	continuing additions	Sarah A Spaulding
10.0	Algae_10.0.xlsx	July 1, 2016	more additions, transfers, and deletions	Sarah A Spaulding
11.0	Algae_11.0.xlsx	September 2, 2016	add taxon requested by Rhithron 8/19/2016; corrected an error at the Published, BioData, and Bench levels (<i>Placoneis anglophila</i> s/b <i>Placoneis anglophila</i>)	Sarah A Spaulding
11.1	Algae_11.1.xlsx	September 2, 2016	Taxa added according to request for Boise project	Sarah A Spaulding
12.0	Algae_12.0.xlsx	October 14, 2016	re-align "sp.", "spp.", "sp # ?" taxa with BioData taxa that do not end with "sp." or "spp." endings; remove the "sp" and other extra characters from the BioDataTaxonShortNames associated with those names; associate Bench Taxa containing "cf." or "aff." with appropriate generic level BioData Taxa. ALSO, included recent transfers (<i>Planothidium calcar</i> to <i>Gliviczia calcar</i> ; <i>Planothidium stewartii</i> to <i>Platessa stewartii</i>) and updates to Diatoms of the US	Sarah A Spaulding
12.1	Algae_12.1.xlsx	October 19, 2016	Make a couple of additions and tweaks to load Cardwell data	Sarah A Spaulding
12.2	Algae_12.2.xlsx	February 2, 2017	Made additions as per request	Sarah A Spaulding
12.3	Algae_12.3.xlsx	February 24, 2017	Moved the NADEDIDs from 19 BenchTaxonNames that start with a quotation mark and end with a space followed by a quotation mark to their "duplicate" concept that does not have the extra leading and trailing characters; all of these concepts remain retired	Scott A Grotheer
12.4	Algae_12.4.xlsx	March 20, 2017	unretire " <i>Stauroneis anceps</i> fo. <i>gracilis</i> Rabenhorst" after developers trimmed the extra white space after the authority	Sarah A Spaulding
12.5	Algae_12.5.xlsx	April 5, 2017	addition of names from southeast states, from NRSA, ANSP and SESQA projects	Sarah A Spaulding
12.6	Algae_12.6.xlsx	April 12, 2017	continuation of adding names and references for the SESQA project	Sarah A Spaulding
12.7	Algae_12.7.xlsx	April 20, 2017	Adding taxa for SESQA	Sarah A Spaulding
12.8	Algae_12.8.xlsx	May 18, 2017	correct some misspellings in SESQA taxa	Sarah A Spaulding
12.9	Algae_12.9.xlsx	May 30, 2017	more corrections	Sarah A Spaulding
13.0	Algae_13.0.xlsx	July 31, 2017	adding more taxa	Sarah A Spaulding
13.1	Algae_13.1.xlsx	August 3, 2017	adding more taxa from NESQA 2014	Sarah A Spaulding
13.2	Algae_13.2.xlsx	August 3, 2017	na	Sarah A Spaulding
14.0	Algae_14.0.xlsx	January 26, 2018	Correct concepts with <i>Wo?owski</i> in the reference code to <i>Woowski</i>	Sarah A Spaulding
14.1	Algae_14.1.xlsx	January 29, 2018	adding names for Ecoanalysts	Sarah A Spaulding
14.2	Algae_14.2.xlsx	March 13, 2018	na	Sarah A Spaulding
14.3	Algae_14.3.xlsx	April 4, 2018	addition of soft algal names and references from Rhithron, Frank Acker (ANS)	Sarah A Spaulding
14.4	Algae_14.4.xlsx	April 6, 2018	Addition of names for ANS	Sarah A Spaulding
14.5	Algae_14.5.xlsx	April 6, 2018	more edits	Sarah A Spaulding
14.6	Algae_14.6.xlsx	May 7, 2018	more updates	Sarah A Spaulding
14.7	Algae_14.7.xlsx	May 30, 2018	more updates	Sarah A Spaulding
14.8	Algae_14.8.xlsx	June 4, 2018	and more updates	Sarah A Spaulding
14.9	Algae_14.9.xlsx	July 3, 2018	more edits, mostly additions	Sarah A Spaulding
15.0	Algae_15.0.xlsx	July 11, 2018	more	Sarah A Spaulding
15.1	Algae_15.1.xlsx	July 18, 2018	Add soft algal taxon names at the request of NEON Incorporate transfers from <i>Anabaena</i> to <i>Dolichospermum</i> based on Wacklin et al. 2009. Nomenclatural validation of the genetically revised cyanobacterial genus <i>Dolichospermum</i> (<i>Ralfs</i> ex Bornet et Flahault) comb. nova. <i>Fottea</i> 9(1): 59–64.	Sarah A Spaulding
15.2	Algae_15.2.xlsx	August 2, 2018	more edits	Sarah A Spaulding
15.3	Algae_15.3.xlsx	August 15, 2018	more edits to diatom names transfers for soft algae	Sarah A Spaulding
15.4	Algae_15.4.xlsx	August 23, 2018	add more soft algal names	Sarah A Spaulding

15.5	Algae_15.5.xlsx	August 23, 2018	addition, clarification of reference codes	Sarah A Spaulding
15.6	Algae_15.6.xlsx	September 19, 2018	addition of taxa for NEON	Sarah A Spaulding
15.7	Algae_15.7.xlsx	January 30, 2019	NA	Sarah A Spaulding
15.8	Algae_15.8.xlsx	March 4, 2019	addition of taxa for NEON	Sarah A Spaulding
15.9	Algae_15.9.xlsx	April 2, 2019	NA	Sarah A Spaulding
16.0	Algae_16.0.xlsx	April 18, 2019	Correct hierarchy of Eunotia	Sarah A Spaulding
16.1	Algae_16.1.xlsx	May 6, 2019	Add retired bench concepts to published and/or biodata names that do not have them to facilitate mapping the domain the Aquarius Samples. Added several names upon request from NEON.	Sarah A Spaulding
16.2	Algae_16.2.xlsx	May 10, 2019	additions for NEON and corrections	Sarah A Spaulding
16.3	Algae_16.3.xlsx	June 4, 2019	additions	Sarah A Spaulding
16.4	Algae_16.4.xlsx	June 14, 2019	additions	Sarah A Spaulding
16.5	Algae_16.5.xlsx	July 18, 2019	more additions, including NESQA 2016	Sarah A Spaulding
16.6	Algae_16.6.xlsx	July 24, 2019	more	Sarah A Spaulding
16.7	Algae_16.7.xlsx	August 26, 2019	addition of Pacific Northwest Regional Survey taxa	Sarah A Spaulding
16.8	Algae_16.8.xlsx	September 4, 2019	so it goes	Sarah A Spaulding
16.9	Algae_16.9.xlsx	September 12, 2019	additions	Sarah A Spaulding
17.0	Algae_17.0.xlsx	September 13, 2019	more additions of taxa	Sarah A Spaulding
17.1	Algae_17.1.xlsx	September 13, 2019	more additions	Sarah A Spaulding
17.2	Algae_17.2.xlsx	September 25, 2019	Pinnularia obscura morphotype 1 with an incorrect authorship was retired	Sarah A Spaulding
17.3	Algae_17.3.xlsx	November 22, 2019	updates to reference codes	Sarah A Spaulding
17.4	Algae_17.4.xlsx	November 27, 2019	addition of names from the USGS California Regional Survey, 2017	Sarah A Spaulding
17.5	Algae_17.5.xlsx	December 19, 2019	added Encyonema sp. 3 ?	Sarah A Spaulding
17.6	Algae_17.6.xlsx	December 30, 2019	a few additions	Sarah A Spaulding
17.7	Algae_17.7.xlsx	February 24, 2020	add Placoneis hambergi	Sarah A Spaulding
17.8	Algae_17.8.xlsx	February 28, 2020	Addition of more names from the California regional survey	Sarah A Spaulding
17.9	Algae_17.9.xlsx	February 28, 2020	fixes for CSQA	Sarah A Spaulding
18.0	Algae_18.0.xlsx	March 3, 2020	more fixes for CA data	Sarah A Spaulding
18.1	Algae_18.1.xlsx	March 23, 2020	Addition of Arizona taxa	Sarah A Spaulding
19.0	Algae_19.0.xlsx	August 8, 2020	This version 19.0 includes a change of the Division Cyanophyta to Division Cyanobacteria to follow more common usage. Misspelled Bench Names were retired. Many new taxa were added to accommodate USGS Water Center needs. However, references for these names were not available and the added names lack reference concepts.	Sarah A Spaulding