



***Licmophora cuneata* (Lyngbye) comb. nov. is the correct name for *Licmophora lyngbyei* (Kützing) Grunow ≡ *Frustulia lyngbyei* Kützing, nom. illeg. (Licmophoraceae, Bacillariophyta)**

Michael. D. Guiry, AlgaeBase, Ryan Institute, University of Galway, University Road, Galway, H91 TK33 (correspondence: [michael.guiry@algaebase.org](mailto:michael.guiry@algaebase.org))

*Licmophora lyngbyei* (Kützing) Grunow (≡ *Frustulia lyngbyei* Kützing) has been reported worldwide (see Guiry & Guiry 2022\*) as a epiphytic species found commonly on the larger seaweed species. In introducing the new name *Frustulia lyngbyei* Kützing (1834: 557, pl. 14: fig. 32; Fig. 1) noted:

“Agardh bemerkt (Consp. p. 38.), dass ihm *Echinella cuneata* Jürg. fasc. XIX, eine andere Species zu sein scheine. Ich habe das Exemplar, welches ich zu vergleichen habe, nicht von Lyngbye's Abbildung verschieden gefunden und meine Abbildung ist nach diesem Exemplare der Jürgens'schen Sammlung gemacht.” [Agardh remarks (Consp. p. 38.) that *Echinella cuneata* Juerg. fasc. XIX seems to him to be another species. I found the specimen I have available for comparison not to be different from Lyngbye's figure and my illustration is made after this specimen from the Jürgens collection.]

Agardh (1831: 38) was referring to Georg Heinrich Bernhard Jürgens (1771–1864) exsiccata *Algae aquaticae quas in littora maris...* fasc. I–XX, 1816–1824. Fascicle XIX, No. 10 of this exsiccata (Jürgens 1824) included “*Echinella cuneata* Lyngbye” from the German North Sea coast: this was later described as *Licmophora juergensii* C.Agardh (1831: 42, ‘Jurgensii’). *Frustulia lyngbyei* Kützing thus represents an unwarranted change of epithet for *Echinella cuneata* Lyngbye, which is the earliest available name. The follow new combination is required:

***Licmophora cuneata* (Lyngbye) comb. nov.**

Basionym: *Echinella cuneata* Lyngbye *Tentamen hydrophytologiae danicae*, p. 211, pl. 70: fig. F, 1819 (Fig. 2)

Type locality: “in sinu Othiniensi *Ceramium rubro insidens*” [Odense Fjord, Denmark, on *Ceramium rubrum*]

Phycobank Registration (for new combination): <http://phycobank.org/103425>

Homotypic synonyms: *Frustulia cuneata* (Lyngbye) C.Agardh, 1824; *Lyngbyea cuneata* (Lyngbye) Sommerfelt, 1826; *Styllaria cuneata* (Lyngbye) C.Agardh, 1831; *Rhabdium cuneatum* (Lyngbye) Wallroth, 1833; *Synedra cuneata* (Lyngbye) Ehrenberg, 1834; *Frustulia lyngbyei* Kützing, 1834, nom. illeg.; *Gomphonema cuneatum* (Lyngbye) Brébisson, 1838; *Podosphenia cuneata* (Lyngbye) Ehrenberg, 1838; *Podosphenia lyngbyei* (Kützing) Kützing, 1844; *Podosphenia communis* var. *cuneata* (Lyngbye) Schaarschmidt, 1880.

Note: A number of supposed varieties and formae of *Licmophora lyngbyei* have been described but these are mostly referred to other species or are of uncertain taxonomic status (see Guiry & Guiry 2022).

Many thanks to Bart Van de Vijver and Eduardo Molinari for helpful comments.

Agardh, C.A. (1824). *Systema algarum*. pp. [i]–xxxvii, [1]–312. Lundae [Lund]: Literis Berlingianis [Berling].

---

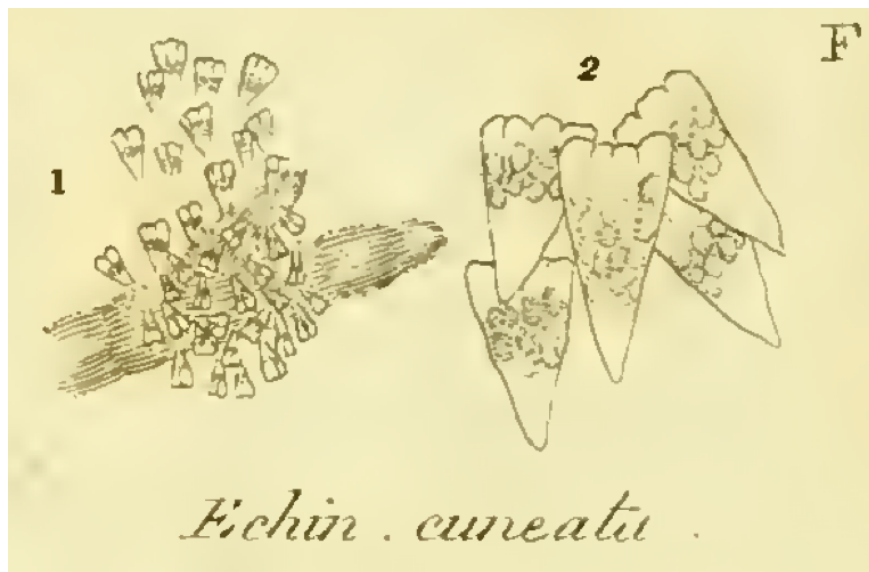
\* It should be noted that AlgaeBase listings of records for such a supposedly widespread species should be checked individually for correctness.



- Agardh, C.A. (1831). *Conspectus criticus diatomacearum. Part 3.* pp. 33–48. Lundae [Lund]: Literis Berlingianus.
- Brébisson, [L.] A. de (1838). *Considerations sur les diatomées et essai d'une classification des genres et des espèces appartenant à cette famille*, par A. de Brébisson, auteur de la Flore de Normandie, etc.. pp. [i], [1]–20. Falaise & Paris: Brée l'Ainée Imprimeur-Libraire; Meilhac.
- Ehrenberg, C.G. (1836). Das Leuchten des Meeres: neue Beobachtungen nebst Übersicht der Hauptmomente der geschichtlichen Entwicklung dieses merkwürdigen Phänomens. *Abhandlungen der Königlich-Akademie der Wissenschaften zu Berlin 1834*: 411–575.
- Ehrenberg, C.G. (1838). *Die Infusionsthierchen als vollkommene Organismen.* Ein Blick in das tiefere organische Leben der Natur. pp. i–xviii, [1–4], 1–547, [1], pls I–LXIV. Leipzig: Verlag von Leopold Voss.
- Grunow, A. (1867). Diatomeen auf *Sargassum* von Honduras, gesammelt von Linding. *Hedwigia* 6(1-3): 1–8, 17–32, 33–37.
- Guiry, M.D. & Guiry, G.M. (2022). *AlgaeBase*. World-wide electronic publication, National University of Ireland, Galway. <https://www.algaebase.org>; searched on 6 November 2022.
- Jürgens, G.H.B. (1824). *Algae aquaticae quas in littore maris dynastiam Jeveranam et Frisiam orientalem alluentis rejectas et in harum terrarum aquis habitantes cellegit etc.* fasc. XIX, nos 1–10. Jenver: Mettcker.
- Kützing, F.T. (1834 '1833'). *Synopsis diatomearum* oder Versuch einer systematischen Zusammenstellung der Diatomeen. *Linnaea* 8: 529–620, + pls XIII–XIX [79 figs].
- Kützing, F.T. (1844). *Die Kieselschaligen Bacillarien oder Diatomeen.* pp. [i–vii], [1]–152, pls 1–30. Nordhausen: zu finden bei W. Köhne.
- Lyngbye, H.C. (1819). *Tentamen hydrophytologiae danicae continens omnia hydrophyta cryptogama Daniae, Holsatiae, Faeroae, Islandiae, Groenlandiae hucusque cognita, systematice disposita, descripta et iconibus illustrata, adjectis simul speciebus norvegicis.* pp. [i]–xxxii, [1]–248, 70 pls. Hafniae [Copenhagen]: typis Schultzeianis, in commissis Librariae Gyldendaliae.
- Schaarschmidt, J. [=G.] (1881). Algae. In: Kanitz, A. *Plantas Romaniae hucusque cognitae.* *Magyar Novenytani Lapok* 5: 151–165, 261–268.
- Sommerfelt, C. (1826). *Supplementum Florae lapponicae* quam edidit Dr. Georgius Wahlenberg auctore. pp. [i\*–iii\*], [i]–xii, [1]–331, [332, err.], 3 pls. Christianiae [Oslo]: typis Borgianis et Gröndahljanis.
- Wallroth, F.G. (1833). *Flora Cryptogamica Germaniae 2 Algas et fungos.* pp. [i]–lvi, 1–923. Norimbergae [Nürnberg]: Schragius [J.L. Schrag].



**Fig 1.** Original illustration of *Frustulia lyngbyei* Kützing (1834: pl. 14: fig. 32), based on the type of *Licmophora juergensii* C.Agardh (1831).



**Fig. 2.** *Licmophora cuneata* (Lyngbye) *comb. nov.* Original illustration of *Echinella cuneata* Lyngbye (1819: pl. 70: fig. F)