

The correct name for *Entomoneis costata* (Hustedt) Reimer (*Entomoneidaceae*, *Bacillariophyceae*)

Michael D. Guiry¹

¹*AlgaeBase, Ryan Institute, University of Galway, H91 TK33, Ireland*

The name *Entomoneis costata* (Hustedt) Reimer was introduced by Reimer in Patrick & Reimer (1975: 6) for *Amphiprora costata* Hustedt (1930: 338, fig. 623). However, *Amphiprora costata* Hustedt is a later homonym of *Amphiprora costata* O'Meara (1869: 151, pl. XII [12]: fig. 6), a marine species described from material dredged off the Aran ["Arran"] Islands, Co. Galway, Ireland, and is thus illegitimate and cannot form the basis for a new name.

Amphiprora costata Hustedt was described from specimens from two localities: a brackish-water site near Cuxhaven, Lower Saxony, Germany and from a slightly salty habitat near Nikolsburg, the German name for Mikulov, Břeclav District, South Moravian Region of Czechia. Simonsen (1987: 121) designated as lectotype "Rb/13. Moravia meridion. Nikolsburg. leg. J. Bílý".

Several attempts were made to replace *Amphiprora costata* Hustedt, *nom. illeg.* The first of these was *Amphiprora incerta* Bílý (1934: 16), the collector, was also illegitimate as *Amphiprora incerta* Mereschkowsky (1903: 168, figs 36–41) had priority. The second replacement name was introduced by Cholnoky (1960: 20), who proposed the name *Amphiprora hustedtii* Cholnoky, but this name was preoccupied by *Amphiprora hustedtii* F.Meister (1937: 264, pl. 8: figs 2–4). A final, successful, attempt was made by VanLandingham (1967: 162) who proposed the replacement name *Amphiprora cholnokyi* VanLandingham. This latter name is the earliest legitimate one for the taxon currently known as "*Entomoneis costata* (Hustedt) Reimer" and the following combination is thus required.

Entomoneis cholnokyi (VanLandingham) Guiry, *comb. nov.*

Basionym: *Amphiprora cholnokyi* VanLandingham *Catalogue of the fossil and Recent genera and species of diatoms and their synonyms*. Part I. *Acanthoceras* through *Bacillaria*. p. 162, 1967.

Replaced synonym: *Amphiprora costata* Hustedt (1930: 338, fig. 623), *nom. illeg.*, *non Amphiprora costata* O'Meara (1869: 151, pl. XII [12]: fig. 6)

Type locality: "bei Nikolsburg" [Mikulov in the Břeclav District, South Moravia, Czechia].

Lectotype (designated by Simonsen 1987: 121): Slide Rb/13. "Moravia meridion. Nikolsburg. leg. J. Bílý" **BRM**.

Registration: <http://phycobank.org/104834>

Etymology: Named by VanLandingham to honour Béla Jenő Cholnoky (1899–1972) of Hungarian origin who worked extensively on the diatom flora of South Africa from 1952 (Wendker 1988).

Distribution: Widely reported worldwide from North America, Europe, Middle East, SW Asia, Asia, Africa, and Australasia; see AlgaeBase (Guiry & Guiry 2024) for detailed records.

Written in profound admiration for Samuel Leighton VanLandingham (1935–2013).

Bílý, J. (1934). Pístanshé rozsivky. (Additamentum ad floram Bacillariearum in thermis Pístany crescentium). *Acta Societatis Scientiarum Naturalium Moraviae* 9(1): 2–17.

Cholnoky, B.J. (1960). Beiträge zur Kenntnis der Diatomeenflora von Natal (Südafrika). *Nova Hedwigia* 2(1/2): 1–128, 9 pl.

Guiry, M.D. & Guiry, G.M. 2024. *AlgaeBase*. World-wide electronic publication, University of Galway. <https://www.algaebase.org>; searched on 4 August 2024



- Hustedt, F. (1930). Bacillariophyta (Diatomeae) Zweite Auflage. In: *Die Süßwasser-Flora Mitteleuropas. Heft 10.* (Pascher, A. Ed., pp. [i]–viii, [1]–466. Jena: Verlag von Gustav Fischer.
- Meister, F. (1937). Seltene und neue Kieselalgen II. *Berichte der Schweizerischen Botanischen Gesellschaft* 47: 258–276, pls 3–13.
- Mereschkowsky, C. (1903). Nouvelles recherches sur la structure et la division des Diatomées. (Rapport préliminaire). *Bulletin de la Société impériale des naturalistes de Moscou* 17(1): 149–172, 41 figures.
- O'Meara, E. (1869). On new forms of Diatomaceae from dredgings off the Arran Islands Co., Galway. *Quarterly Journal of Microscopical Science, new series, London* 9: 150–151, pl. XII.
- Patrick, R. & Reimer, C.W. (1975). *The diatoms of the United States exclusive of Alaska and Hawaii*. Vol. 2, Part 1. Entomoneidaceae, Cymbellaceae, Gomphonemaceae, Epithemiaceae. pp. [i]–ix, [1]–213, 28 pls [in text]. Philadelphia: The Academy of Natural Sciences of Philadelphia.
- Simonsen, R. (1987). *Atlas and catalogue of the diatom types of Friedrich Hustedt*. Vol. 1. Catalogue. Berlin & Stuttgart: J. Cramer in der Gebrüder Borntraeger Velagsbuchhandlung.
- VanLandingham, S.L. (1967). *Catalogue of the fossil and Recent genera and species of diatoms and their synonyms*. Part I *Acanthoceras* through *Bacillaria*. pp. [1]–xi, [1]–493. Lehre: J. Cramer.
- Wendker, S. (1988). The Chohnoky diatom collection in the Botanical Museum Berlin-Dahlem. *Willdenowia* 17: 235–238.