

A STUDY ON THE TYPE MATERIAL OF CYCLOTELLA KUETZINGIANA THWAITES (CENTRALES, BACILLARIOPHYCEAE)

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Biobasis

This study refers to the identification of *Cyclotella kuetzingiana* and argues that it is imperative to use type material in order to come to a correct classification. The studied species has a long history of misleading. Originally, Thwaites (1848) described this diatom with type material based on two sources, i.e. two diatom species could be included. The type material, stored in the Natural History Museum in London, was analyzed for the available study. The present author examined both samples and found *C. meneghiniana* Kützing (1844) in the first sample from Thwaites' collected material in "Shirehampton near Bristol" and *C. kuetzingiana* in the second sample on a glass slide, prepared by Wm. Smith with his 1851 collection from Wareham. The latter seems to be unsuitable as type material due to a later collection. Therefore, he tried to find *C. kuetzingiana* in Smith's prepared slides in other institutions (cf. Smith 1853 & 1856) and argued his searching as a complementary determination. In this study, other prospects concerning the classification are also given.

References:

- Thwaites, GHK (1848). *Annale & Magazine Nat. Hist.* (ser.2, vol.1) **3**: 161-172.
- Kützing, F T (1844). *Die kieselschaligen Bacillarien oder Diatomeen*. 152 pp, (2nd ed. 1865), Nordhausen.
- Smith, Wm. (1853-1856). *Synopsis Brit. Diat.* I-II, *Microscopic Preparations of the Diatomaceae* (in appendages).