

Diatom 20: 159-165 (英文)

Kensuke Toyoda and David M. Williams : Description of *Achnanthes* Bory (Bacillariophyceae) based on Kützing's type slides and materials I : New morphological information on *Achnanthes brevipes* var. *intermedia* (Kütz.) Cleve

Abstract

This study presents new information on the morphology of the brackish water species *Achnanthes brevipes* var. *intermedia* Kütz. based on the type slide and material. This taxon has been difficult to identify compared with *A. brevipes* C. Agardh var. *brevipes* because they resemble each other in the shape of the valve face. *A. brevipes* var. *brevipes* has valves that are usually more or less linear, slightly constricted at the centre and cuneate at the apices, and both valve faces are quite flat. On the other hand, var. *intermedia* has valves that are usually more or less elliptical with a rounder valve face. Furthermore, valve size of var. *intermedia* is smaller than var. *brevipes*. However, var. *intermedia* is not considered an independent species but should remain a variety of *A. brevipes* at this time because several structures that resemble each other are more than the differences between these two taxa. More observations are required about this taxon and the other species of *A. brevipes* complex to propose its specific rank.

Key index words : *Achnanthes brevipes* var. *intermedia*, *Achnanthes sensu stricto*, brackish water, Kützing, morphology, type slide