

Diatom 14: 35-40 (英文)

後藤敏一・李 正鎬・槻木玲美 : *Stephanodiscus vestibulis* Håk., E.C.Ther. & Stoermer

— 微細構造と生態 —

Toshikazu Gotoh, Jung Ho Lee and Narumi Tsugeki : Fine structure and ecology of a diatom *Stephanodiscus vestibulis* Håk., E.C.Ther. & Stoermer

Abstract

Specimens collected from Sayama-ike (Sayama Pond : Osakasayama, Osaka, Japan ; Sediment core) and Naktong River (Kyongsang-Nando, Korea; plankton) were examined in detail by using scanning electron microscope, and identified as *Stephanodiscus vestibulis*. The species is characterized by a vestibule which is a small space at the outer opening of marginal fulcra. In addition to the arch-like opening of vestibule reported in the original description, fan-shaped, and very narrow slit openings were observed. The number of cowlings of a central fulcra. In addition to the arch-like opening of vestibule reported in the original description, fan-shaped, and very narrow slit openings were observed. The number of cowlings of a central fulcra is three according to the original description, however, some specimens possessed two cowlings were observed. In light microscopy, this species can be distinguished from similar species *Stephanodiscus minutulus* and *S. delicatus* by a somewhat large spot on the interfascicle near the valve margin, and not clearly observed marginal fulcra. It was recorded from eutrophic freshwaters of western North America, Japan and Korea.

Key index words

diatom, eutrophication, geographical distribution, micromorphology, plankton, *Stephanodiscus vestibulis*