

Diatom 25: 37-44 (英文)

Marinês Garcia : ブラジル Rio Grande do Sul 産 *Melosira undulata* (Ehrenb.) Kütz. var. *normanii* Arn. の形態と分類

Marinês Garcia: Morphology and Taxonomy of *Melosira undulata* (Ehrenb.) Kütz. var. *normanii* Arn. (Bacillariophyta) from Rio Grande do Sul, Brazil

Abstract

This is the first study of the freshwater diatom *Melosira undulata* (Ehrenb.) Kütz. var. *normanii* Arn. from Brazilian waters. The fine structure was studied based on sand samples from Guaíba River and plankton from Lagoa Emboaba (Rio Grande do Sul State, Brazil). The diatom attaches itself to sand grains by secreting mucilage stalks from its sessile rimoportulae, which are located in the middle of the mantle. The loculate wall structure is described in detail and the fine structure is compared to species of *Melosira* C.Agardh, *Ellerbeckia* R.M.Crawford, *Orthoseira* Thwaites and genera of Hyalodiscaceae. The features observed are in agreement with *Melosira*.

Key index words: epipsammic diatom, freshwater, Melosiraceae, morphology, phytoplankton, *Melosira undulata* var. *normanii*