Diatom 12: 43-67 (英文)

小村精一：房総中新統波太層産の珪藻

Seiichi Komura : Some new diatoms from the Miocene Nabuto Formation, Central Japan

Abstract

Five new genera comprising eight new species are described from the Miocene marine sediment. *Plurifenestra*, composed of *Plurifenestra cruciata* sp. nov. and *P. maxima* sp. nov. as well as *Unguiella* typified by *Unguiella grossecarinata* sp. nov. with *U. latispinifera* sp. nov. is grouped into Plurifenestraceae fam. nov. on the basis of the common possession of large biserial window-like areolae on the mantle of discoidal valves. *Siphonodiscus polysiphonius* sp. nov. characterize radiating tubes which tunnel within the wall thickness of the lenticular valve. *Rouxiopsis* dependent upon *Rouxiopsis bipartita* sp. nov. has a reduced raphe as in the related genus *Rouxia* with separate slits on the apical sternum but with longitudinal rows of apparently closed areolae. In the final genus *Balanosa* composed of two new species, *Balanosa fusiformis* and *B. continua*, a large spindle-shaped chamber constitutes the longitudinal halves of the valve face.

The reconstructed image of the fragment-based members of Plurifenestraceae and the morphologic relationships for *Rouxiopsis* are discussed.

Key index words

five new genera, Miocene diatoms, Nabuto Formation.