

Diatom 22: 17-25 (英文)

Hiroyuki Tanaka and Tamotsu Nagumo : Late Miocene freshwater diatoms from Mitoku area in Misasa Town, Tottori Prefecture, Japan

Department of Biology, The Nippon Dental University, Fujimi 1-9-20, Chiyoda-ku, Tokyo 102-8159, Japan

Abstract

Diatoms from three samples taken from Late Miocene sediment at three different outcrops along the Ebiya Gorge, Naru, Mitoku area in Misasa Town, Tottori Prefecture were investigated and authors found them to contain 45 taxa belonging to 27 genera, of which 41 taxa in 25 genera were identified. The diatom assemblage of the lowest sample (TOT-201) was dominated by *Cyclotella kohsakaensis* with a frequency of 73%, followed by *Staurosirella lapponica* at 11% and *Diploneis subovalis* at 3%. The diatom assemblages of the two upper samples (TOT-202, 203) were very similar containing mostly *Staurosirella lapponica* with a frequency of 53-61%, followed by *Aulacoseira italica* at 10-14%, *Pseudostaurosira brevistriata* var. *inflata* at 2-6%, *Mesodictyon* sp. あ at 3-4% and *Epithemia turgida* at 2-4%. This report lists all the Late Miocene freshwater diatoms found in the three assemblages and notes the characteristics of five species.

Key index words : fossil, freshwater diatom, Japan, Late Miocene, Mitoku Formation