

Diatom 17: 91-100 (英文)

澤井祐紀・百原 新・藤木利之・那須浩郎：珪藻化石群集から推定される新潟県佐潟湖における低湖水位期

Yuki Sawai, Arata Momohara, Toshiyuki Fujiki and Hiroo Nasu : Emergence events inferred from fossil diatom assemblages in the deposits of Lake Sagata, Niigata Prefecture, central Japan

#### Abstract

Two emergence events in the past 3800 years have been recognized from the welldated marshy deposits of Lake Sagata. Each emergence event was associated with changes in fossil diatom assemblages. In the mud layers, planktonic *Aulacoseira granulata*, *A. ambigua*, and Fragilariaceae dominated, while two peat layers were characterized by aerial and/or aeroterrestrial taxa such as *Eunotia praerupta* var. *bidens* and *Hantzschia amphioxys*. Radiocarbon ages suggest the events had occurred 2100-1700 yr. B.P. and 1700-1300 yr. B.P. Past changes in the balance between precipitation and evaporation might have induced these emergence events.

Key index words

aerial taxa, aeroterrestrial taxa, fossil diatoms, Lake Sagata, planktonic taxa