

Diatom 8: 63-70 (英文)

窪田英夫：長野県望月町片倉峠の化石珪藻群集

Hideo Kubota : Fossil diatom assemblage of the Katakura Pass diatomite in Mochizuki Town, Nagano Prefecture

#### Abstract

Fossil diatoms found in two diatomite samples taken from two vertically located strata about one meter above the surface of the road on the top of Katakura-toge (Katakura Pass), Mochizuki Town, Nagano Prefecture were investigated.

In these samples, 49 taxa including 5 unidentified taxa were recorded. They belong to the 18 genera and 7 families. Among those taxa, two species, *Cocconeis diminuta* and *Melosira distans* are noticeable. The former alkalibiontic form is abundant, 40.3% in the upper stratum but much less in the lower stratum, 6.7%. On the other hand, the latter acidophilous form is abundant, 50.8% in the lower stratum, but less 23.6% in the upper stratum.

Based mainly on those facts, the past sedimentary environment of those strata is assumed to be a lake or marsh in which the transition occurred from acidic water caused presumably by volcanic activities to alkaline water caused by successive plant growth.

Key index words

*Cocconeis diminuta*, diatomite, fossil diatoms, *Melosira distans*