

Diatom 18: 81-87 (英文)

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Diatom flora of Itō Spa and Yugawara Spa, Central Japan

Abstract

Epilithic diatoms were collected on February 23 and 24, 2002 from two spas, Itō Spa and Yugawara Spa, located in central part of Japan. At sampling sites where diatoms were found, the water temperature ranged from 18-45°C, the pH was 6.7-8.7 and the concentration of NaCl was 0.05-0.16%. A total of 17 diatom taxa were observed. The commonest taxon was *Pinnularia jocolata* which is regarded as a tropical species, followed by *Nitzschia amphibia*, *Achnanthes minutissima*, *Navicula veneta* and *Nitzschia microcephala* which were considered to be alkalifilous taxa. Dominant taxa were almost the same as the common taxa, though the order was slightly different. Of the 16 identified taxa, only 9 were salt tolerant with a relative frequency of 56.3%, which is reasonable value under low NaCl concentration (0.05-0.16%).

Key index words

diatom, flora, salinity, spa