

Diatom 27: 69-74 (和文)

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Tsuyoshi Watanabe, Akiko Ueda, Yudai Akaboshi and Noboru Katano: Diatoms in Akita Prefecture, northern part of Japan, part 3 -Diatoms from the hot spring of Oyasukyo gorge

Abstract

Diatom assemblages and water quality were investigated at six sites in the hot spring of Oyasukyo gorge. The pH was alkaline and the water temperature was higher than 30°C except at one site. In total, 38 genera and 82 taxa were recorded; the most predominant being *Achnantheidium exiguum*, which is frequently found in alkaline hot springs. The other taxa of relatively high abundance are as follows: *Pinnularia jocolata*, *Diadesmis confervacea*, *Ulnaria oxyrhynchus*, *Sellaphora seminulum*, *Navicula rostellata*, and *Nitzschia brevissima*.

Key index words: *Achnantheidium exiguum*, Akita Prefecture, alkaline, hot spring, Oyasukyo gorge