

Diatom 5: 21-31 (英文)

渡辺仁治：摩周湖の付着珪藻と有機汚濁指数 (DAIpo)

Toshiharu Watanabe : Attached diatoms in Lake Mashuu and its value of the diatom assemblage index of organic water pollution (DAIpo)

Abstract

Lake Mashuu, in Hokkaido, is well-known to be cleanest lake in Japan. However, the species composition of organisms inhabiting this lake requires much clarification, notably with regard to diatoms, which have not previously been described.

The present paper describes an investigation of the diatom species composition of two samples of algae attached to submerged stones located in the shoreline of the lake in the surface water layer. Samples were obtained in August 1985 and 1987 and were found to comprise a total of 74 diatom taxa, among which two were new varieties.

Diatom assemblage index of organic water pollution (DAIpo) was calculated based on the species component in each sample, and was found to be 90.4 (1985) and 91.9 (1987).

Key index words

Epilithic diatoms, Lake Mashuu, Clean water lake, DAIpo, Saproxenous diatom taxa.