

Diatom 16: 45-62 (英文)

濁川明男・長谷川康雄：福井県三方五湖の珪藻群集と水環境

Akio Nigorikawa and Yasuo Hasegawa : Diatoms and aquatic environments of the
“Mikatagoko” Lakes in Fukui Prefecture, Central Japan

Abstract

The following five lakes, Hiruga-ko, Kugushi-ko, Suigetu-ko, Suga-ko and Mikata-ko have been collectively called Mikatagoko. The lakes have different salinities, and are located on the coast of Wakasa Bay along the Japan Sea side of Fukui Prefecture, Central Japan.

In this paper we compare the data of Nigorikawa & Nishikata (1975) with the results of our analyses of aquatic conditions and diatom assemblages in 1999 and 2000.

The epiphytic materials and the bottom surface oozes collected from 38 sites in total were used to elucidate the species components of diatom assemblages. In this investigation, the water qualities at the sites were analyzed. As a result, we found that the diatom biocoenosis and thanatocoenosis reflected the chemical and physical conditions of the waters.

Key index words

aquatic environment, diatom assemblages, “Mikatagoko”, salinity