

Diatom 22: 61-69 (英文)

渡辺仁治¹・浅井一視²：生物生存に対して苛酷な陸水環境に出現した付着珪藻群集

¹〒604-8046 京都市中京区新京極通東側町 518 ペリフィトン研究会

²〒569-0801 大阪府高槻市大学町 2-7 大阪医科大学生物学教室

Toshiharu Watanabe¹ and Kazumi Asai² : Attached diatoms occurring in severe freshwater environments for living creatures

¹*Periphyton Institute, Higashigawacho 518, Shinkyogoku St., Nakagyo-ku, Kyoto 604-8046, Japan*

²*Department of Biology, Osaka Medical College, Daigakucho 2-7, Takatsuki, Osaka 569-0801, Japan*

Abstract

There are two freshwater environments which are considered to be severe conditions for the survival of living creatures. One is inorganic acid or alkaline lakes and rivers resulting naturally from the inflow of acid or alkaline spas and springs. The other is artificially polluted waters by inflow of drainage from households, sewage treatment equipment and barns etc. In such environments, the existence of almost all organisms is inhibited, but diatoms are one of the group of organisms able to grow in such severe environments. Moreover, some diatom taxa occurred in large quantities in these environments. In this paper, we summarize the dominant taxon of many attached diatom assemblages occurring in severe environments from the view point of ecology.

Key index words : acid waters, alkaline waters, attached diatoms, organic pollution, tolerant taxon