

Diatom 6: 1-9 (英文)

肥塚利江・中村寿子：付着珪藻群集に基づく猪名川の汚濁状況

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Abstract

Organic pollution of the Ina River and its branches, the Minoh River and the Yono River, was estimated numerically by using the diatom assemblage index (DAIpo). And the water quality charts of each river were made using DAIpo. Results were the following.

- (1) The Ina River : DAIpo values decreased gradually toward the downstream. The DAIpo value of the point of water source for Ikeda City was ca. 60 (α -oligosaprob) and for Toyonaka City was ca. 55 (α -oligosaprob). River pollution index (RPI_d), whose value is able to be shown the general degree of pollution of river system, was 63.
- (2) The Minoh River : DAIpo values of two sampling sites in the upstream were very high but decreased rapidly toward the downstream. The DAIpo value of the point of water source for Minoh City was ca. 70 (β -oligosaprob), and the RPI_d was 67.
- (3) The Yono River : DAIpo values were lower in the upstream rather than in the downstream. The DAIpo value of the point of water source for Ikeda City was 59 (α -oligosaprob), and the RPI_d was 56.

Key index words

diatom assemblage index to organic water pollution (DAIpo), Ina River, river pollution index (RPI_d), water quality chart.