

Eutrophication and Oxygen-Deficient Bottom Water in Tokyo Bay

**Hisako Ogura⁽¹⁾, Akira Iimura⁽¹⁾ and Koichi
Oguma⁽²⁾**

*⁽¹⁾ Chiba Prefectural Laboratory of Water Pollution, Mihama-ku, Chiba
261-0005, Japan Tel +81-43-2432935 Fax +81-43-2432960
e-mail: VYL11027@nifty.ne.jp*

*⁽²⁾ Chiba University, Faculty of Engineering, Inage-ku, Chiba 263-8522
Tel +81-43-2903502 Fax +81-43-2903502
e-mail: oguma@j90.tg.chiba-u.ac.jp*

Abstract

Tokyo Bay suffers from red tide and Aoshio (the well-up of the oxygen-deficient bottom water). We found that the degree of the oxygen-deficient condition of the bottom water is closely related to the DO (dissolved oxygen) over the surface layer water, and that the oxygen-deficient water is formed more readily in the depressions where water is more liable to stay than that on the natural sea-bottom. We also confirmed that the northern wind is necessary for the occurrence of Aoshio in Tokyo Bay.