

Temporal and Spatial Variations of Nutrients in Eastern Black Sea Coast

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Abstract

Monthly measurements of temperature, dissolved oxygen, phosphate, nitrate, nitrite and silicate were taken for the period of January 1993 to August 1994. These parameters were measured at 12 stations and 3 different depths (surface, 10 m, 25 m).

During the study, the phosphate, nitrate, nitrite and silicate concentrations changed in relation to depths between 0.01-0.77 mg/l, 0.1-1.4 mg/l, 0.001-0.007 mg/l and 0.100-3.760 mg/l respectively.

Temporal fluctuations of phosphate, nitrate, nitrite and silicate concentrations were found to be significant. Differences in phosphate nitrate and nitrite concentrations were also significant among the stations.