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Phytoplankton Species' Succession and Nutrients in the Southern Black Sea (Bay of Sinop)

Muhammet TÜRKOĞLU

Çanakkale Onsekiz Mart University, Fisheries Faculty, Hydrobiology Department, Marine Biology  
Section, 17100, Çanakkale - TURKEY

Tufan KORAY

Ege University, Fisheries Faculty, Hydrobiology Department, Marine Biology Section, 35100, Bornova,  
İzmir - TURKEY

 [Keywords](#)  
[Authors](#)



[bot@tubitak.gov.tr](mailto:bot@tubitak.gov.tr)

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**Abstract:** The succession, annual cycle and diversity of phytoplankton species and seasonal changes in nutrients in the southern Black Sea (around Sinop peninsula) were investigated between August 1995 and July 1996. One species of Cyanophyceae, 83 taxa of Dinophyceae, 1 species of Prymnesiophyceae, 5 taxa of Dictyochophyceae, 88 taxa of Bacillariophyceae and 1 species of Euglenophyceae were identified. A list of phytoplankton species together with annual variations was prepared. Changes in community structure, density and diversity are discussed in relation to the physico-chemical features of the water column.

**Key Words:** Black Sea, Sinop Bay, phytoplankton, succession, diversity, nutrient

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