

**SEASONAL CHANGES IN NET PHYTOPLANKTON  
OF THE CENTRAL BLACK SEA OFF CAPE SINOP, TURKEY**

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**ABSTRACT**

In this investigation, species compositions, seasonal qualitative and quantitative fluctuation of net phytoplankton population have been studied at 2 stations near Cape Sinop in the central part of the southern Black Sea coast during January 2002-September 2002. Samples were preserved in formalyn solution, concentrated by setting and concentration of each species of phytoplankton was enumerated under the microscope. O<sub>2</sub>, pH, temprature, salinity, posphate, nitrate, silicate, chlorophyll-*a* measurement carried out montly intervals. The time series data were then processed to study the biochemical characteristics of the region.