

## **Chlorophyll-a Fluorescence in the Aegean Sea**

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### **Abstract**

In this paper the detailed in situ fluorescence and chlorophyll-a data for the Aegean Sea first time has been presented. The data were collected during cruises in July 1994, November 1994, and April 1995 in the framework of the national research programme for the Aegean Sea. In situ vertical fluorescence data showed a good correlation with chlorophyll-a values. The subsurface chlorophyll maximum (SCM) usually coincided with the maximum of in situ fluorescence and was a common feature of the oligotrophic basin. SCM with relatively high chlorophyll concentrations formed at shallower depths in fall in northern Aegean sea while in summer SCM showed lower chlorophyll concentrations and were found as deep as 100 m in the southern Aegean. The depths of maximum fluorescence intensity varied in place and season, they remained within a range of density limits (28.3 - 29.1 sigma-t).