

PHYTOPLANKTON COMMUNITIES OF DEEP AND SURFACE WATER LAYERS IN A MEDITERRANEAN
FRONTAL ZONE.

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A consistent hydrographical feature of the Catalano-balearic sea is the presence of an elevation of deep, relatively nutrient-rich water, approximately mid-way between the Catalan coast and the Balearic Islands; the Catalan and Balearic boundaries of this deep water ridge are marked by two fronts. In summer, high chlorophyll concentrations may be found near the coast and in a deep chlorophyll maximum which extends across the frontal zones. This communication analyzes the differences in composition of the phytoplankton communities of the deep chlorophyll maximum and of the coastal fertilization area during July 1983 and relates their distribution patterns with those of the hydrographical parameters.