

**DISSOLVED AND PARTICULATE ORGANIC CARBON IN AN EASTERN
MEDITERRANEAN ENVIRONMENT (SARONIKOS GULF, GREECE)**

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ABSTRACT

Data on particulate and dissolved organic carbon obtained during a four month survey in the Saronikos Gulf, Greece, are presented and discussed. Vertical distribution of POC is related to primary production in the area, exhibiting increased POC values in the euphotic zone. The influence of the Athens sewage effluents is evident on POC spatial distribution. DOC vertical distribution follows that of POC, i.e. primary production, whereas spatial DOC distribution is more uniform. Accumulation of DOC during the summer months is observed. Furthermore it seems that DOC accumulation in the whole area studied is enhanced by the presence of the Athens sewage outflow.