CONTRIBUTION OF NESTOS RIVER TO THE WATER CIRCULATION OF KAVALA BAY IN NORTH AEGEAN

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In the present study the influx of warmer and lower salinity water into the Kawala bay in North Regean is examined. The study of temperature and salinity time series, as they were recorded at three locations with moored current meters, combined with the observed current field results that, warmer and lower salinity water enters into the area through Thassos island channel. It is believed that, the origin of the structure of this water mass in lestos?

The study of surface bottom sediamnts of Kawala bay (Lykousis,1984) showed that fire-grained materials predominate all lower the bay. This conclusion combined with: (a) The small values of water transparency measured with a secchi disc at the eastern and southern part of the bay. (b) The existence of illite stereal in great quantities in the bay? see that, is derived from merial photographs drives to the general conclusion that, Nestos river is the main source of supply for the fine-grained sediments of Kawala bay.

The study of bay's current field (Kardanas, 1984) using data recorded with current meters showed that: (a) The water circulation is mainly wind-driven and (b) Miner E or SE winds blow over the area warmer and lower salinity water weeks period, May 17, 1983—Tune 7,1983 (Kardanas, 1984). At each location R, B and C (Fig.1) one sub-surface mooring deployed carried two current meters. These were located at depths below HSL of 9 and 5m above the order of the control of the pressure of the water mass. During the observation period hourly outless of wind field parameters (direction, speed, haroserion period hourly values of wind field parameters (direction, speed, baroserion period hourly values of wind field parameters (direction, speed, baroserion period hourly values of wind field parameters (direction, speed, baroserion period hourly values of wind field parameters (direction, speed, baroserion period hourly values of wind field parameters (direction, speed, baroserion period hourly values of wind fi

