

Monitoring and acquisition of data from Yellow Sea in RO Korea

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Temporal and spatial variations of water quality were investigated in the Yellow Sea, Korea from 1997 to 2014. Water samples were collected at 60 stations and physicochemical parameters were analyzed including water temperature, salinity, suspended solids (SS), dissolved oxygen (DO), Chlorophyll a and nutrients. Medium-term trends and distribution patterns of water quality were investigated in the West coastal areas of Yellow Sea, Korea from 1997 to 2014. Spatial distribution patterns of temperature, pH and DO were not clear among stations but the seasonal variations were distinct except ammonium. The results of water quality evaluation index (WQI) values is 25, and ecology-based seawater water quality criteria were grade II (Good). Spatial water qualities were discriminated into three clusters by WQI.

Key Words: Water quality, West coastal areas, Yellow sea, Medium-term trends, Spatial distribution patterns, Seasonal variations, Water quality evaluation index (WQI)

