Project ID:

Installation of **floating** complete monitoring station of **currents**, **wave analysis**, **meteorological** parameters and **water quality** measuring and logging.

The station installed as part of the project *«Development of an Integrated Observatory system for the Prevention and Management of the risk of Coastal Corrosion, under the impact of Climate Change, through the use of Land Observation Data».*

The station measures and transmits via telemetry *856 parameters* and more than 3000 raw data for further offline analysis.

IN BRIEF

System : Telemetric Floating Station

Area : Thermaikos gulf – Pieria prefecture

Period : September 2019

ADMINISTRATOR

Central Makedonia Region

- Directorate of Environment, Industry, Energy and Natural Resources
- Department of Environment and Hydro-economy

Important !

One of the most complete floating stations

Important !

Combination of systems from the worldwide top manufacturers

Important !

Extremely low maintenance requirements

- The data transmission is made via mobile telephony per 15 minutes
- The buoy is equipped by all the required marking systems (radar reflector, lamp, etc.)
- The data are logged in a data base and simultaneously feed automatically a web page
- The system is expandable and can accepts extra sensors

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MAIN MEASURING PARAMETERS

Battery voltage
Heading [Deg.M]
Pitch [Deg]
Roll [Deg]
Significant Wave Height Hm0 [m]
Wave Peak Direction [Deg.M]
Wave Peak Direction Swell [Deg.M]
Wave Mean Direction [Deg.M]
Wave Peak Direction Wind [Deg.M]
Wave Mean Period Tm02 [s]
Wave Peak Period [s]
Wave Peak Period Swell [s]
Wave Peak Period Wind [s]
Wave Height Swell Hm0 [m]
Wave Height Wind Hm0 [m]
Wave Height Hmax [m]
Wave Period Tmax [s]
Wave Period Tz [s]
Curent speed at 20 depths, (cm/s)
Curent direction at 20 depths, (deg)
Wind Direction [Deg]
Wind Speed [m/s]
True Wind Direction [Deg]
Air Pressure [hPa]
Relative Humidity [%]
Air Temperature [Deg.C]
Dewpoint [Deg.C]
Pressure Sea Level [hPa]
Pressure Station Level [hPa]
Absolute Humidity [g/m^3]
Average Wind Speed [m/s]
Average Wind Direction [Deg]
Wind Gust Speed [m/s]
Average Wind Gust Direction [Deg]
Water Temperature [Deg.C]
Conductivity [mS/cm]
Specific Conductivity [mS/cm]
Salinity [psu]
Turbidity [NTU]
Dissolved Oxygen [mg/L]
Dissolved Oxygen (Saturation) [%]
Chlorophyll Raw [RFU]
Chlorophyll [ug/L]
Phycoerythrin Raw [RFU]
Phycoerythrin [cells/ml]
Wiper Position [V]
TDS [mg/L]

Multiparameter Water Quality Probe