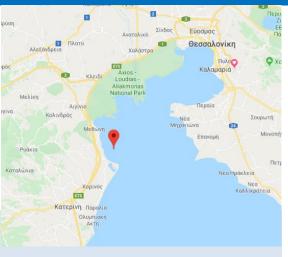
# CaseStudy

# FLOATING STATION (BUOY) - THERMAIKOS GULF





# 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** 









