

A detailed view of a yellow oceanographic buoy. It has a cylindrical yellow top section with solar panels on its surface. Above this is a yellow instrument housing with a display screen and various sensors. At the very top is a white windmill-like anemometer. The buoy is mounted on a metal stem with a mooring line at the bottom.

MSM OCEAN

MSM Ocean is the Oceanographic Division of Mediterráneo Señales Marítimas, a leading international company in the aids-to-navigation sector.

We are **specialized** in the design of Oceanographic Buoys, SafePort and Tsunami Early Warning and Detection Systems.

Our team of experts offers **comprehensive customized solutions** for the measurement and management of oceanographic, meteorological and environmental data. Training included.

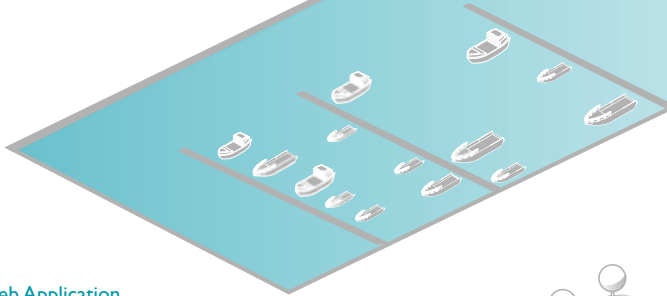
www.msmonocean.com

COMMUNICATIONS

Average wind speed: 3 knots
Gust of wind: 11 knots
Wind direction: 113 degrees
Gust direction: 78 degrees
Air temperature: 19.6 degrees Celsius
Relative humidity: 44%
Dew point: +07.2 degrees
Air pressure: 1013 hPa
Air pressure tendency: stable
Flow velocity #2: 01.7 knots
Flow direction #2: 102 degrees
Flow depth measurement #2: 4 meters
Sea conditions: foamless small waves
Water temperature: 15.1 degrees Celsius
Processed data: 2020-03-05 16:09:47



OCEANOGRAPHIC BUOY



TIDE GAUGE

Web Application



CONTROL CENTRE



DATA

IN REAL TIME

We gather meteorological, oceanographic and environmental data to produce **essential information in real time**, thus improving the safety of navigation in areas such as ports and their approaches. We also provide fundamental data for the management and planning of ports.

DATA:



Meteorological: wind, air temperature, solar radiation, barometric pressure, humidity, etc.



Oceanographic: waves, current in the water column and superficial current and tide.



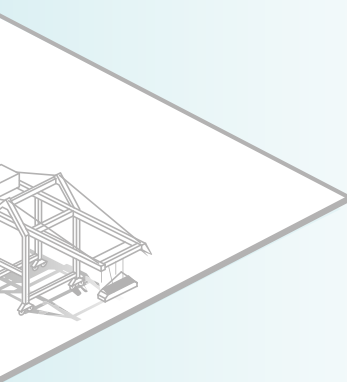
Environmental: conductivity, water temperature, pH, salinity, dissolved oxygen, cyanobacteria, turbidity, sediment, chlorophyll, fluorescence, E.coli, etc.



Contaminants: presence of hydrocarbons or vegetable oils.



Web Application



AIS



VOICE



RADIO



GPRS/3G/4G/LTE



SATELLITE

TRANSMISSIONS

Metoccean data can be transmitted by **AIS** or **synthesized voice** directly to ships and by **radio**, **GPRS**, **GSM** or **satellite** to a control centre station, with maximum precision and reliability.



MORE
INFORMATION



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