

# COASTAL METEOROLOGY

QUALITY THROUGH INNOVATION AND DESIGN

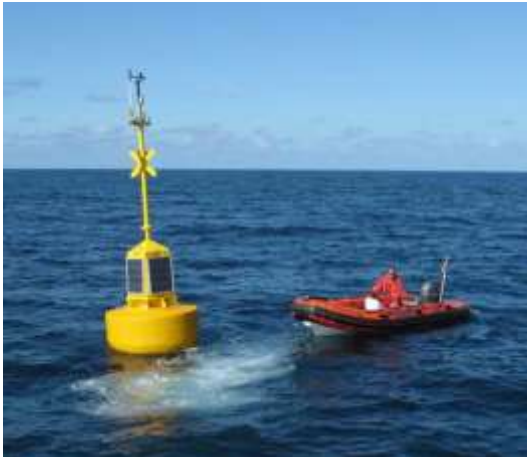
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Energy, Water, Environment.  
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## 10 Coastal Meteorology

Coastal meteorology encompasses phenomena that extend from about 100 km offshore to 100 km inland. Thus understanding the meteorology of the coastal zone combines knowledge of the interaction of marine and land atmospheric boundary layers, air-sea interaction, large-scale atmospheric dynamics, and the circulation of the coastal ocean.



Most coastal environments are modified by the adjacent ocean, the coastal topography and the land-sea thermal contrast. Complex feedbacks occur between the atmosphere, ocean and land.

ENE A Grupo® offers the necessary instrumentation for the measurement of all the meteorological parameters in the inland zone, as well as for the measurement of the offshore meteorological conditions, which require the use of meteorological buoys, or floating

structures, where to mount the corresponding measuring sensors, including the data logger and data transmission devices.

Our coastal weather buoys (ENE A Grupo® MetBuoy Series) are ready to measure the meteorological parameters close to the sea surface, but can also be equipped for measuring water quality parameters using the appropriated water quality sensors, as well as water currents, and scalar or directional waves in base of Acoustic Doppler Current Profilers (ADCPs).



