

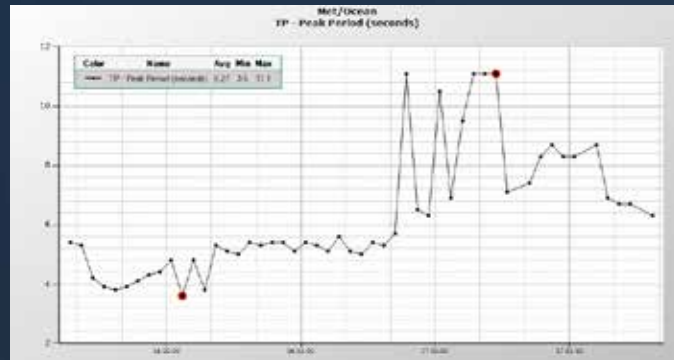
# Marine Monitoring Systems

Understand your complete environment

**UNDERSTAND  
YOUR COMPLETE  
ENVIRONMENT**

COMPLETE DATA SETS  
PROVEN TECHNOLOGY  
FULL SERVICE  
PROJECT LIFE CYCLE MANAGEMENT

## Sample storm weather data from AXYS display software:



Met / Ocean: Maximum Wave Height (m)

AXYS software engineers design and produce data management solutions to operate seamlessly with AXYS marine environmental monitoring systems. This enables clients to remotely manage a station or an entire network from their office, archive and QC data, while viewing and configuring data through user-friendly graphical interfaces.

## Applications

- Offshore wind assessment
- Weather forecasting
- Safe operations management
- Oceanographic research
- Marine and coastal engineering
- Climate studies

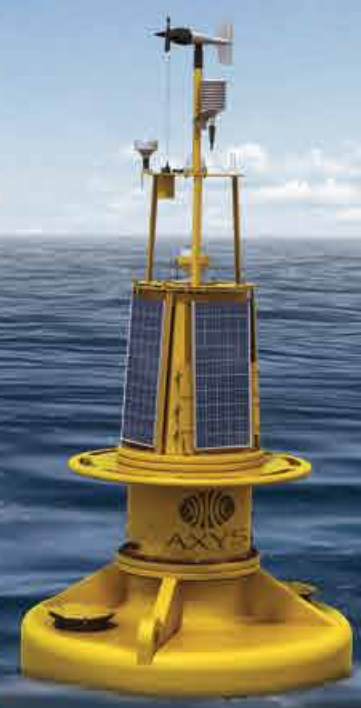




**TRIAXYS™**  
Wave & Current Buoy



**OCEAN SENTINEL™**  
Floating Laboratory



**WATCHKEEPER™**  
Metocean Buoy

## MARINE ASSESSMENT & MONITORING SYSTEMS

AXYS Technologies has 40 years of experience in the development, deployment and maintenance of offshore systems that accurately record and transmit ocean data in near real time. Typical marine systems include moored buoys for weather, waves, and sea-state forecasting, as well as buoys for specialized applications such as offshore wind assessment, tsunami, red tide, and oil spill detection.

### COMPLETE DATA SETS

AXYS can integrate a wide range of sensors onto a buoy system in order to meet the data requirements of offshore monitoring programs. Sensor suites can be customized to supply data sets commonly used including:

- wind speed, direction & gust
- atmospheric pressure
- air temperature
- water temperature
- dissolved oxygen
- conductivity
- wave period and direction
- significant and maximum wave height
- current speed and direction
- relative humidity
- pH
- position (GPS)

AXYS also offers full data hosting and a suite of software data display and management tools.

### CAPABILITIES CHART

	Wave	Current	Water Quality	Water Temperature	Salinity	Turbidity	Basic Wind	Air Temperature	Atmospheric Pressure	LiDAR
TRIAXYS™	x	x	x	x	x	x				
3 Metre WatchKeeper™	x	x	x	x	x	x	x	x	x	
Ocean Sentinel™	x	x	x	x	x	x	x	x	x	x

### PROVEN TECHNOLOGY

**Met Ocean, Waves & Current Measurement:** AXYS has designed, deployed and serviced a wide variety of these reliable data buoys for over 40 years.

**Floating Laboratory:** The AXYS Ocean Sentinel™ is a complex oceanographic data acquisition buoy that is designed to perform in extreme weather conditions. Ample power availability enables a variety of custom environmental monitoring programs, including wave energy converter testing and offshore wind assessment.

### FULL SERVICE

The AXYS Service Team employs senior Field Specialists who know the systems intimately and have over 60 years of combined oceanographic and operational buoy experience. These specialists are capable of board level diagnostics/repair in the field, and individual electronic component level diagnostics/repair in the lab.

AXYS can provide full turnkey installation programs for any of our products, anywhere in the world. Our staff is experienced in working in all climates and ocean conditions.