

InterOcean

# COASTAL MONITORING STATIONS

COMPLETE METEOROLOGICAL &  
OCEANOGRAPHIC DATA ACQUISITION SYSTEMS

NEAR-SHORE / COASTAL / OFFSHORE  
Systems Engineered for All Applications



**ODAS**  
Data Acquisition  
Buoy

### FEATURES

- Real Time Data
- Easy to Install, Simple to Use
- Standard Mooring Configurations
- User Specified Sensors
- Wireless Subsurface Acoustic Telemetry
- Hardwire, Radio, Cellular or Satellite
- Deployed & Supported WorldWide

**NEW: IRIDIUM SATELLITE DATA DELIVERY**  
Cost Effective, Reliable, Global Coverage!!!



**S4ADW**  
Oceanographic  
Instrument

### **METOC PARAMETERS / SENSORS**

Wave Height & Direction  
Wave Period & Tide  
Current Speed & Direction  
Sea Surface Temperature  
Conductivity/Salinity/Sound Velocity  
Turbidity, OBS, D.O., pH, Redox  
Fluorescence, Transmissivity  
PAR, UV-B, Ocean Color  
Wind Speed, Direction & Gust  
Barometric Pressure, Air Temperature  
Relative Humidity, Precipitation  
Visibility, Lightning  
Video Observation



**BASE STATION CONTROL**  
Remote Monitoring &  
Telemetry Software

[WWW.INTEROCEANSYSTEMS.COM](http://WWW.INTEROCEANSYSTEMS.COM)



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# InterOcean systems, inc.

## Oceanographic / Meteorological Data Acquisition System SYSTEM OVERVIEW

InterOcean supplies a complete line of turnkey, automated **Oceanographic/Meteorological Data Acquisition Systems (ODAS)** to meet today's demand for remote coastal/offshore data acquisition & real-time monitoring applications. These systems typically consist of moored buoy(s) with fully integrated measurement instrumentation, data acquisition system, self-contained (solar-charged) power supply, data telemetry (user-specified radio, satellite, cell, or hardwire), and base station (receive/process/archive data, plus system control).

Each system is built around one of three basic designs; InterOcean's "**Near Shore**", "**Coastal**" and "**Offshore**" type **Monitoring Stations**. Each basic ODAS station is configured with integral mooring components, sensor array, and data telemetry system, engineered to meet the unique rigors of the deployment environment and the user's specific performance requirements. Universal compatibility in the design of hardware, interfaces, and software architecture, allows any combination of user-specified sensors to be integrated, and facilitates future system expansion. InterOcean's ODAS systems provide flexible, cost effective, long-term solutions that are proven to be rugged and reliable.

**InterOcean Data Telemetry System**

File CommPort Logging Options

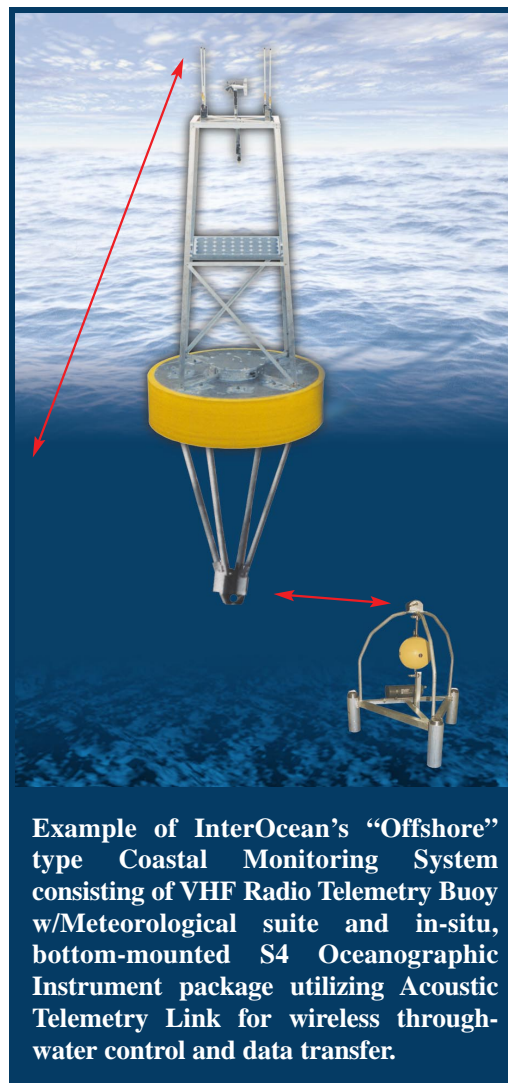
Com Status - Change in DSR Detected  
Log Status - Standby Mode

Modem: CD CTS DSR TX RX

Meteorological		Oceanographic		Wave Statistics	
Air Temp	35.24 deg. C	OBS	15.025 FTU	Hs	.715 meters
Humidity	40.1 %	Temp	12.561 deg. C	Hav	0.446 meters
Barometer	1012 millibar	Salinity	34.962 psu	H/10	0.906 meters
Rainfall	0 cm/hr	Spare	*****	Hmax	1.068 meters
Spare	*****	Tide	15.278 meters	Tp	12.11 sec
<b>Wind</b>		<b>Water Current</b>		Tz	8.46 sec
Speed	4.1 Knots	Speed	105.2 cm / sec	Ts	9.12 sec
Direction	280.0 degrees	Tilt	0.36 degrees	Tc	6.48 sec
Peak Gust	12.5 Knots	Direction	95.1 degrees	Thmax	10.23 sec
<b>Tension</b>		<b>Warning</b>		Dir	275.4 deg
SPM #1	985.0 metric tonnes	Warning	900	Std	0.178
Spare	***** metric tonnes	Danger	1200	eps	0.709
				Mwd	15.785 meters
				HAB	3.6 meters

Comm Port: Open    Connection: Connected    CPU Batt: 3.666    Main Batt: 11.25    Start Time: 05/23/96 09:56    Time Till Tide: 00:03:24    Time Till Wave: 00:12:45    Date: 8/08/96    Time: 14:04

**InterOcean ODAS Telemetry Software for Real-Time Monitoring, 2-Way System Control, and Data Analysis, Display, & Archive.**



## INTEROCEAN COMPANY PROFILE

Since 1946 InterOcean Systems has been a world leader in ocean technology with a focus on innovation, quality, and customer support. Product areas include oceanographic buoys, remote telemetry systems, S4 current meters/oceanographic instruments, wave & tide gauges, CTD, data acquisition software, hydrophones, transponders, oil spill monitoring, acoustic releases, winches, and custom-engineered projects. Clients in over 60 countries constitute a "who's who" list of the international scientific and academic communities, military, and offshore/private industry.

InterOcean's facilities, located in San Diego, handle all phases of production in-house; from R & D to fabrication, engineering to systems support. Concurrent engineering and production insures optimal quality control, specification compliance, and product reliability. For over 50 years InterOcean has specialized in the production and integration of high quality instrumentation and instrumented systems for subsea, fixed/littoral, and shipboard applications. Due to the extreme nature of marine and subsea environments, these instrumented systems require failsafe hardware, electronics, communications, and software; and must be absolutely waterproof, simple to use, easy to deploy and maintain, and provide critical data with long-term reliability. Thousands of such instruments and data acquisition systems have been delivered by InterOcean and are used & supported worldwide. Please contact InterOcean with your application requirements.



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