



ROSS: REMOTE OFFSHORE SENSOR SYSTEM

ROSS is an easily deployed moored sensor platform for air, surface and subsurface environmental sensing.



REAL-TIME DATA

WIND/LIDAR

AVIAN

MARINE MAMMAL

- Low cost, high endurance, unmanned platform
- Environmental sensor and communications payloads
- Low mast/sensor pitch and roll less than 3° through Sea State 5
- Integrated, open architecture, LOS and NLOS communications links
 - LOS link 10km at 5 Mbps (up/down), Wave Relay®
 - NLOS link globally at .432 Mbps (up/down)
 - 4G Wireless where available
- Up to 6kW of 24 VDC power available for payloads
- Redundant diesel generators for reliability
- 30+ day fuel endurance
- Easily deployable, can be towed at low speed

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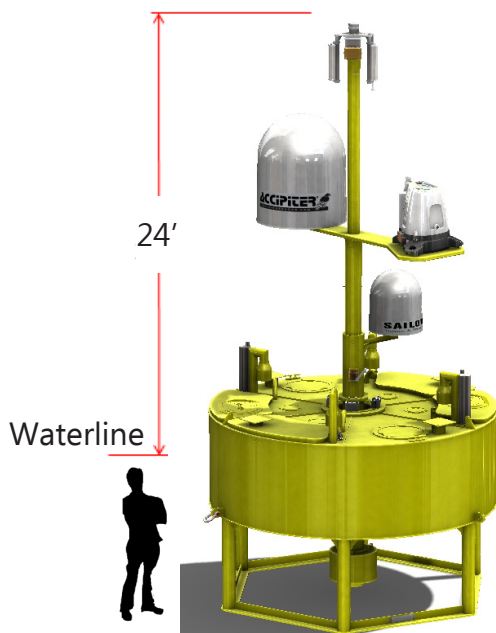
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Specifications



Passively stabilized gimballed mast (patent pending)
Improved above-surface sensor performance
Improved high bandwidth communications

Diesel powered for higher power sensors/processing
Two 5.5 kW redundant generators
Battery packs for intermittent diesel operation
Refuel/maintain at 30-45 day intervals

Single point or 3-point moorings

Quiet periods for sensitive hydro-acoustic measurements

Large payload capacity for instrumentation racks

Three communication methods for real-time data transfer

4G

Wave Relay high bandwidth line of sight

Satcom

**Persistent Systems
 Wave Relay®**



- LOS link 15km at 20 Mbps (up/down)

**ZephIR 300
 LIDAR**



- Reliable Wind Survey Data from 10m to 200m above
- Zero 'flow distortion'

**Accipiter Avian Radar
 Monitoring**



- 3D Coverage (lat., long., alt., speed, heading, size) for every target
- Survey up to 11 km in distance