

MOBY PROFILING FLOAT 4000 meters APPLICATIONS

The MOBY profiling float designed by OSEAN is a deep, low-cost, longlived, platform that mobilizes passively drifting autonomous hydrophones for MERMAID seismology program and CTD for deep Argo program mission.

- MERMAID Seismology Monitoring
- Deep ARGO program mission
- · Expanded versatility for other applications

FEATURES

- Autonomy up to 5 years
- Autonomous profile to 4000m (13,123 ft)
- · Landing and Park on the sea floor capability
- Iridium/RUDICS Communication and GNSS localization
- One-year continuous recording MERMAID data buffer
- Designed based on a modular structure to facilitate integrating additional sensors
- Rugged Lightweight Housing
- Launch and recovery hook for easy deployment and recovery

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TECHNICAL SPECIFICATIONS





MECHANICAL CHARACTERISTICS

Hull: Overall Length: Overall shell diameter Weight in Air: Depth rating:

Glass sphere 17" 131 cm with removable IRIDIUM/GPS Antenna 55 cm 57kg 4000 meters - 13,123 ft

TELEMETRY

Iridium/RUDICS Communication: Localization: DIAGNOSTIC via Bluetooth (PC / MAC) User software interface:

PRESSURE SENSOR

Range: Accuracy: 0 - 410 bar 0.2% FS

DEEP ARGO CTD Sensor: Features

SBE61 CTD or RBRargo³ CTD Continuous profile on ascent Sampling every hour on drift (pressure, temperature, salinity)

ACOUSTIC MERMAID

Sensor: Bandwidth: Sound pressure level: Resolution: Sample rate: Data Buffer:

Hydrophone 0.1 Hz to 12 Hz 180 dB ref 1µPa (Full scale) 24 bits 40 SPS 1 year of continuous recording

GNSS WAAS/EGNOS compatible

OPERATION

Lifetime:

Landing capability: Power supply: Operating temperature: Shipping:

Up to 300 MERMAID cycles (8 days) Up to 330 deep ARGO cycle (10 days) Up to 200 deep ARGO & MERMAID cycle (10 days) Able to park on the sea floor on request Lithium (Multimodal & IATA Certified) / Alkaline -2°C to 35°C Wood shipping crates (international)



