



OSIL
Environmental Instruments
and Systems

PROFILING BUOYS

THE IDEAL FLEXIBLE MONITORING PLATFORM

OSIL's Fulmar, Skua & Albatross Data Buoy's are versatile instrumentation platforms ideally suited for collection and measurement of oceanographic, meteorological and water quality data parameters.

Water quality sonde or oceanographic CTD can be fitted on an internal winch designed for the marine environment that can provide automatic profiles to 100m. Other sensors available on request.

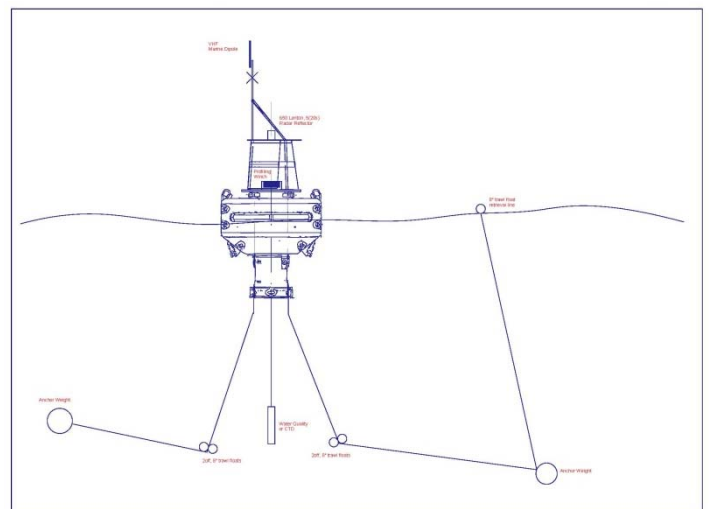
The OSIL Buoys are manufactured using rotationally moulded polyethylene hulls around a galvanised steel central structure. The mounted winch uses the central structures large hole to allow passage of sonde / CTD down through the water column. By positioning the sonde / CTD in the centre of the buoy they are well protected from damage during transportation and deployment.

The buoys are moored in a fixed position with single dual point mooring.



Features:

- Robust construction
- Modular design making transportation easy and replacement of equipment simple
- Through hull compartment for safe deployment of sonde / CTD
- Interchangeable components
- Highly stable in operation
- Solar power systems available as self-contained modules or separate larger panels for higher power load
- Choice of profiling times
- Mooring systems available for inshore waters and open sea locations



FOR FURTHER INFORMATION PLEASE CONTACT:

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Specifications			
Fulmar	Diameter: 1.9 m, Buoyancy: 2000 kg, Reserve Buoyancy: 1000 kg, Weight: 960 kg, Focal Plane: 2.4 m, Ballast Weight: 240 kg		
Skua	Diameter: 2.6 m, Buoyancy: 5700 kg, Reserve Buoyancy: 4000 kg, Weight: 1500 kg, Focal Plane: 4.0 m, Ballast Weight: 6000 kg		
Albatross	Diameter: 3.0 m, Buoyancy: 8000 kg, Reserve Buoyancy: 6000 kg, Weight: 1850 kg, Focal Plane: 4.3 m, Ballast Weight: 800 kg		
Winch	Low power automatic profiling winch every 3-8 hours 100m, 8-core cable Echosounder depth measurement automatically checked against CTD data		
Water Quality	Salinity	0 to 70	± 0.2 ppt
	Conductivity	0 to 100mS/cm	± 0.5%
	Temperature	-5° to 50° C	± 0.10° C
	Hach LDO™	0 to 60 mg/L	± 0.1 mg/L @ ≤ 8 mg/L, ± 0.2 mg/L @ > 8mg/L ± 10% reading @ > 20mg/L
	pH	0 to 14 pH units	± 0.2 units
	ORP	-999 to 999 mV	±20 mV
	Self Cleaning Turbidity	0 to 3000 NTU	± 1% up to 100 NTU ± 3% from 100-400 NTU ± 5% from 400-3000 NTU, ± 3%
	Chlorophyll a	Low Medium High	0.03-500 µg/L 0.03-50 µg/L 0.03-5 µg/L
CTD option	Conductivity	0 to 90mS/cm	± 0.003mS/cm
	Temperature	-5° to 35° C	± 0.002° C
	Pressure	100m	0.1% of full range
Data Transfer Options	VHF short range (1 km) UHF (to 20 km) GPRS to GPRS (fixed IP only) GPRS to Web (fixed / dynamic IP only) GSM Dial-up, Iridium Dial-up or Email Satellite		

OSIL have been providing high quality data buoy systems to clients world-wide and have been operating since 1989. We have a wealth of experience in providing total solutions to clients needs, from planning & design, implementation & build, through to software and web based data delivery. We offer mooring & buoy installation and training on the software/ data acquisition systems. All this is backed up by a fully qualified calibration and repair laboratory.