

The ideal flexible monitoring platform

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

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

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

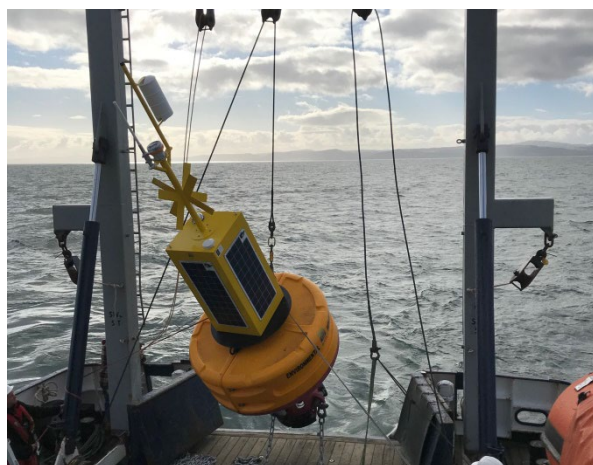
The buoys are moored in a fixed position with single or dual point moorings.

Applications

- Water Quality Monitoring
- Scientific Studies
- Coastal Engineering
- Maritime Traffic Control
- Harbour & Coastal Monitoring

All buoys are fitted with solar panels, battery back up, navigation/warning lights (IALA Standard Lamp) and other markings as necessary (St Andrews cross, Internal Radar Reflector etc.).

A range of telemetry options are available (UHF/VHF, GSM, GPRS, Satellite), selected to suit both the location and application requirements. OSIL provide a complete data telemetry solution, including either desk top or web-based software packages to access the data.



Specifications

Fulmar	Diameter: 1.9 m, Weight: 960 kg, Reserve Buoyancy: 1000 kg, Focal Plane: 3.1 m, Ballast Weight: 240 kg		
Skua	Diameter: 2.6 m, Weight: 2400 kg, Reserve Buoyancy: 3300 kg, Focal Plane: 4.0 m, Ballast Weight: 400 kg		
Albatross	Diameter: 3.0 m, Weight: 2800 kg, Reserve Buoyancy: 6000 kg, Focal Plane: 4.3 m, Ballast Weight: 800 kg		
Winch	Low power automatic profiling winch every 3-8 hours 100 m, 8-core cable		
Water Quality	Salinity	0 to 70	± 0.2 ppt
	Conductivity	0 to 100 mS/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 @ > 8 mg/L ± 10% reading @ > 20mg/L
	pH	0 to 14 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
	Chlorophyll a	Low - 0.03-500 µg/L Medium -0.03-50 µg/L High - 0.03-5 µg/L	± 3%
CTD option	Conductivity	0 to 90 mS/cm	± 0.003 mS/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 Other sensors are available on request		

FOR FURTHER INFORMATION PLEASE CONTACT:

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