

# OIL SPILL MONITORING BUOYS



## 24/7/365 Oil Spill Monitoring Platforms

OSIL's Tern, Fulmar, Skua & Albatross Data Buoys are versatile instrumentations platforms ideally suited for the detection of oil spills.

OSIL's Buoys use the Remote Oil Watcher (ROW) with its pulsed UV LED beam to excite the oil molecules that have appeared in the studied water area, and induce their fluorescence. The ROW photo-detector collects the resulting returning signal for further analysis and is immediately processed by the on board software to determine the presence of an oil spill.

The oil spill data / alarms can be processed directly through the ROW PC software or logged on the buoy to be transmitted to the client. Alarm options include visual lights / audible horns, email and text alerts.

The Tern buoy offers a perfect platform for calm sheltered waters with low wave action, whereas the Fulmar, Skua & Albatross allow use in harsher, deep water environments.

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

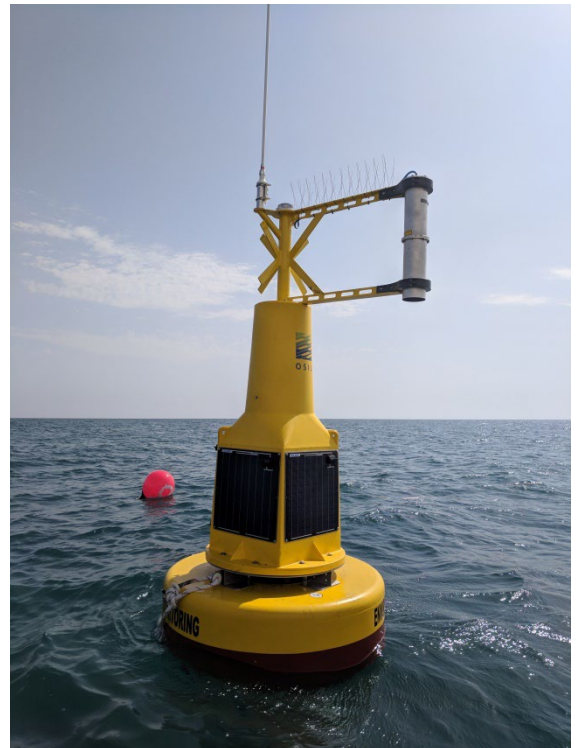
### Features

- Robust construction
- Modular design making transportation easy and replacement of equipment simple
- Highly stable in operation

Specifications	
<b>Tern</b>	Diameter: 1.2m, Reserve Buoyancy: 400kg, Weight: 240kg, Focal Plane: 2.7m, Ballast Weight 80kg
<b>Fulmar</b>	Diameter: 1.9m, Reserve Buoyancy: 1000kg, Weight: 960kg, Focal Plane 3.1m, Ballast Weight: 240kg
<b>Skua</b>	Diameter: 2.6m, Reserve Buoyancy: 3300kg, Weight: 1500kg, Focal Plane 4.0m, Ballast Weight: 400kg
<b>Albatross</b>	Diameter: 3.0m, Reserve Buoyancy: 6000kg, Weight: 1850kg, Focal Plane 4.3m, Ballast Weight: 800kg
<b>Data Transfer Options</b>	VHF short range (1km) UHF (to 20km) GPRS to GPRS (fixed IP only) GPRS to Web (fixed/dynamic IP only)
<b>Oil Slick</b>	Fluorescence based measurement using a Pulsed UV LED Variable sampling rate from real-time to hourly - depending on Buoy Monitored area in 1m <sup>2</sup> . Long life LED at 5 years (even at the highest sampling frequency) Selective sensitivity Operates during day and night IP68



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 deliver. 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.



**FOR FURTHER INFORMATION PLEASE CONTACT:**

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