


Infrastructure (short name)	NOC Coastal Observatory (COBS)	
Installation (short name)	NOC Coastal Observatory – 3 gliders (NOC_SHALLOW_GLIDERS)	
Location	Irish Sea	
Legal name of organization	Natural Environment Research Council NERC	
Location of organization	Liverpool, UK	
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Web site address	http://cobs.pol.ac.uk/	

Description
<p>The NOC Coastal Observatory has three components – measurements; coupled hydrodynamic ecological numerical models; a data management and web-based data delivery system. It has been running since August 2002, initially based in Liverpool Bay, Irish Sea.</p> <p>There are three measurement strands, each on different complementary space / time scales, and for each of which the goal is at least some (near) real time operation: fixed point time series (both in situ and shore-based), an instrumented ferry and underwater gliders.</p> <p>These measurements are supplemented by weekly composite (because of cloud cover) satellite images of sea surface temperature, suspended sediment and chlorophyll. [data made available to users by the NERC/NOC]</p> <p>The Teledyne Webb Research Slocum electric gliders are set up for shallow water (0-200m) and are being used within the NOC Coastal Observatory for specific scientific process studies as well as to supplement the Coastal Observatory background data sets. One of the gliders is fitted with a Rockland Scientific MicroRider turbulence measuring package.</p>
Service offered
<p>The gliders are available for Trans National Access to JERICO users for specific experiments, tests of instruments and in-situ validation. They are also available for missions outside the UK. In addition NOC has the capability to add new sensors (both switch-on/switch-off and fully integrated) to Teledyne Webb Research Slocum electric gliders.</p> <p>The support team consists of the NOC engineers and scientists who regularly prepare the instrumentation and install/uninstall or deploy the gliders (four people) and process the data.</p>

Instruments/Sensors				
Instrument	Measured Parameter(s)	Depth range	Sampling frequency	Frequency of data recovery
Teledyne Webb Research Slocum electric glider (G1)	Non-pumped Seabird CTD, Aanderaa oxygen optode, Wetlabs triplet sensor for CDOM, Chl-a and turbidity.	0-200m	various	Selected integrated sensor data at specified intervals whilst at the surface via Iridium
Teledyne Webb Research Slocum electric glider (G1)	Non-pumped Seabird CTD and a Rockland Scientific MicroRider turbulence probe (micro-conductivity ,shear and temperature at up to 512Hz)	0-200m	Various	Selected integrated sensor data at specified intervals whilst at the surface via Iridium Turbulence sensor is not integrated and data can only be transferred once recovered
Teledyne Webb Research Slocum electric glider (G2)	Pumped Seabird CTD, Aanderaa oxygen optode, Wetlabs triplet sensor for CDOM, Chl-a and turbidity.	0-200m	Various	Selected integrated sensor data at specified intervals whilst at the surface via Iridium
Special owner rules				
None.				