



Infrastructure (short name)	NOC Coastal Observatory (COBS)	 
Installation (short name)	NOC Marine Autonomous and Robotic Systems (MARS)	
Location	Based in Southampton	
Legal name of organization	Natural Environment Research Council NERC	
Location of organization	Southampton, UK	
Contact	David White, dwh@noc.ac.uk MARS Glider Manager National Oceanography Centre, Southampton European Way Southampton SO14 3ZH UK Tel +44 2380 596154	
Web site address	http://noc.ac.uk/research-at-sea/nmfss/mars	

Description

The MARS glider group provides support for and operates the NOC glider fleet for NERC funded scientific programs. In recent years, NOC glider operations have been in the north Atlantic, Mediterranean and Irish seas.

We have strong links to the other major glider groups in the UK, at UEA, SAMS and BAS, as well as the scientists at both NOC sites at Liverpool and Southampton.

We carry out trials, deployment, piloting and recovery of our own and other groups' gliders as required, as well as refurbishment, repair and modification of both Slocums and Seaglidors.

The MARS glider group:

- 4 Seaglidors
- 4 deep Slocum gliders
- 3 shallow Slocum gliders (general purpose)
- 1 shallow Slocum glider (turbulence probe)

Service offered

The MARS gliders are available for use in Trans National Access projects in JERICO. Where science projects welcome added value measurements using added-on sensors, small programmes can piggy-back on larger or more established programmes. The MARS glider group will liaise with PIs where this is possible.

Where trials are programmed by MARS, other trials or short missions can be accommodated.

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.

Instruments/Sensors

Instrument	Measured parameters	Depth range	Sampling frequency	Frequency of data recovery
3 x Teledyne Webb Research Slocum Electric glider (G2)	Two pumped and one non-pumped CT from Seabird, Anderaa Oxygen optode and Wetlabs triplet puck measuring Chl-a, CDOM and 650nm turbidity	0-200m	various	Data subset at user selected intervals via Iridium, full dataset after recovery.
1 x Teledyne Webb Research Slocum Electric glider (G2)	Non-pumped CT from Seabird, Rockland Scientific MicroRider turbulence probe (micro conductivity, shear and temperature up to 512Hz)	0-200m	various	Data subset at user selected intervals via Iridium, full dataset after recovery.
4 x Teledyne Webb Research Slocum Electric glider (G2)	Non-pumped CT from Seabird, Anderaa Oxygen optode and Wetlabs triplet puck measuring Chl-a, CDOM and 650nm turbidity	0-1000m	various	Data subset at user selected intervals via Iridium, full dataset after recovery.
4 x iRobot 1kA Seaglider	Non-pumped CT from Seabird, Anderaa Oxygen optode and Wetlabs triplet puck measuring Chl-a, CDOM and 700nm turbidity	0-1000m	various	Data subset at user selected intervals via Iridium.

Special owner rules

None.