



RESEARCH VESSEL PROGRAMME

RV CEFAS ENDEAVOUR Survey: C END 01 – 2018

STAFF:

Name	Role	Cabin	Shift
Simeon Archer-Rand	SIC	SIC	Float
Alison Pettafor	Shift Lead	D2	N
Bill Meadows	Shift Lead	B1	D
Malgorzata Wilczynska	Surveyor	C2	D
Carolyn Graves	Surveyor	D3	N
Nevena Almeida	Surveyor	C 1	D
Christopher Martin	Surveyor	D4	N

DURATION: 5 Days - 7th - 11th January 2018

LOCATION: Swallow Sands Marine Conservation Zone, North Sea, UK

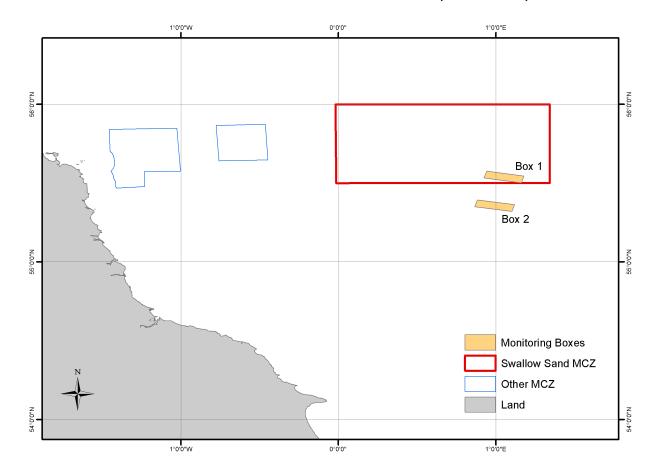


Figure 1. Location of the Swallow Sands MCZ and the BACI design monitoring Boxes





Table 1. Box 1 Vertices Coordinates

Point	Latitude (N)	Longitude (E)
1	55.57608	0.94214
2	55.54494	1.17838
3	55.50218	1.16108
4	55.53298	0.92460

Table 2. Box 2 Vertices Coordinates

Point	Latitude (N)	Longitude (E)
1	55.39384	0.88308
2	55.36283	1.11830
3	55.32005	1.10115
4	55.35073	0.86570

AIMS:

This survey forms the first of two surveys which aim to collect a "before" benthic dataset forming the first monitoring event in a Before-After-Control-Impact (BACI) study to allow the future evaluation of the effectiveness of proposed fisheries management measures at Swallow Sands (SWSD) MCZ.

This survey will collect multi-beam echo sounder data to help characterise the extent and distribution of the different habitats within the monitoring areas.

PLAN:

The RV Cefas Endeavour will depart Lowestoft on Sunday 7th January at 00:40 and transit towards the Swallow Sand MCZ. A full MBES calibration will take place on-route to the MCZ utilising objects of opportunity.

Arrival on site is due for early on the 8th with MBES operations immediately starting on Box 1 (the most northerly of the two boxes). Full coverage of 50% of Box 1 will be completed in 1.8 days before beginning MBES surveying of Box 2 with the aim of completing full coverage of 50% of the box by the end of the survey.

If the weather conditions deteriorate and the collection of good quality MBES data is no longer possible operations will switch to the collection of sediment samples using the Shipek Grab. Samples will be collected based on a triangular grid pattern across the two survey boxes. Samples will be photographed, described and frozen for particle size analysis.

The vessel will depart the site on the 10th January and is due back in Lowestoft on 11th January at 17:00.

GEAR:

Multi-beam Echo Sounder Bathymetric system SVP probes Shipek Grab

Simeon Archer-Rand Scientist in Charge 03/01/2018

DISTRIBUTION:

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