

**CENTRE FOR ENVIRONMENT, FISHERIES AND AQUACULTURE SCIENCE  
LOWESTOFT LABORATORY, SUFFOLK, NR33 0HT**

**2016 RESEARCH VESSEL PROGRAMME**

**PROGRAMME: RV *Cefas Endeavour*: Survey CEND 15/16.**

**STAFF:**

Name	Berth	Base	Berth change
Alex Callaway SiC	Main Sci 7	Lowestoft	N
Alison Pettafor	Lower Sci 2	Lowestoft	Y
John Bignell SL	Upper Sci 2	Weymouth	N
Freya Goodsir	Upper Sci 1	Lowestoft	N
Tim Bean	Main Sci 2	Weymouth	N
Denise Doran	Main Sci 3	Lowestoft	N
Ken May	Lower Sci 4	Lowestoft	Y
Manuel Nicolaus SL	SIC cabin	Lowestoft	N
Sara Losada Rivas	Main Sci 6	Lowestoft	N
Stefan Bolam	Main Sci 8	Lowestoft	Y
Bill Meadows	Lower Sci 5	Lowestoft	Y
Dave Pearce	Main Sci 5	Lowestoft	Y
Michelle Pond	Main Sci 1	Weymouth	N
Fishery Liaison Officer?	Lower Sci 3?	?	Y?
Floater 06:00-18:00	Nights 00:00-12:00	Days 12:00-00:00	

**DURATION: 11/07/2016 – 15/07/2016 (5 days)**

**LOCATION:**

**Survey area co-ordinates (DegDecMin):**

**BR: 50°15.10667; 4°11.79179**

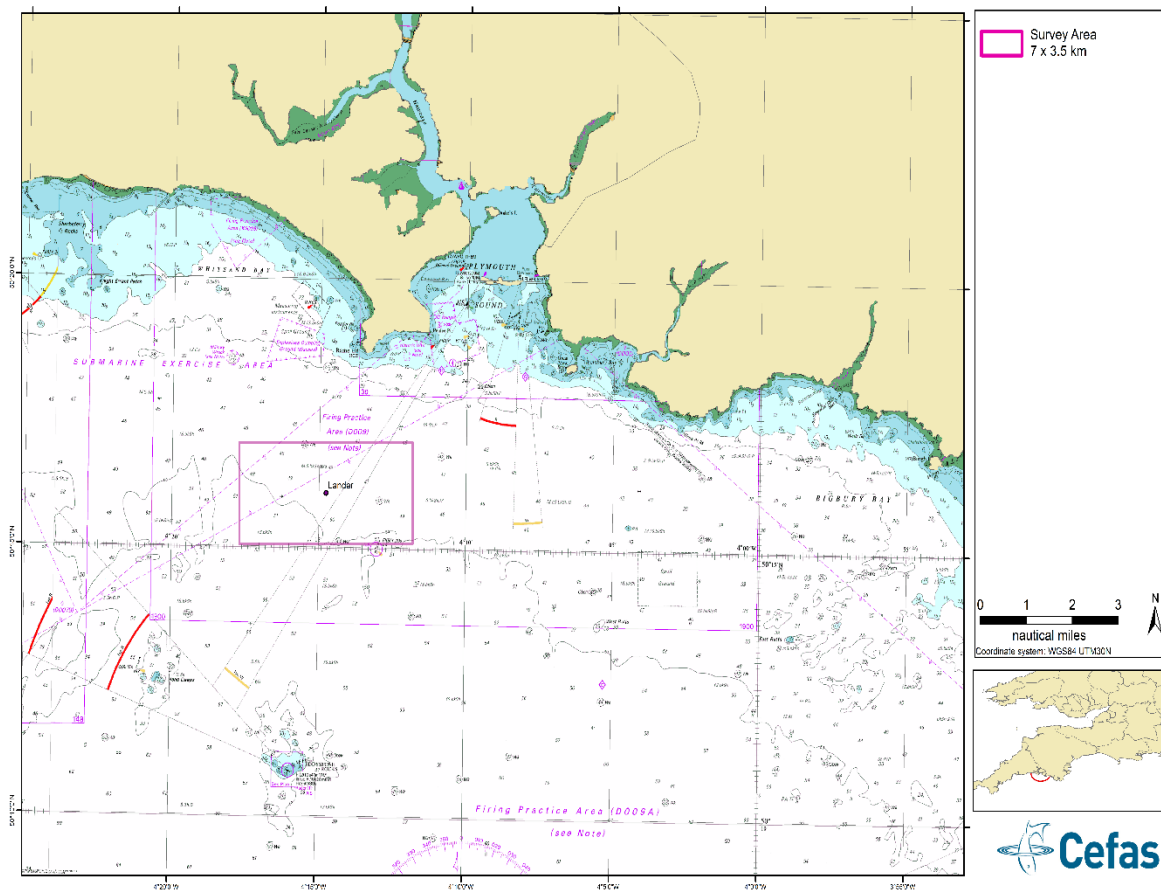
**TR: 50°16.99493; 4°11.83912**

**TL: 50°16.93172; 4°17.73280**

**BL: 50°15.04354; 4°17.68159**

**Lander site (DegDecMin):**

**50°16.02000; 4°11.76000**



## AIMS:

This survey is tasked with carrying out a seabed characterisation survey for the Marine Management Organisation (MMO). Data collected will inform the MMO on suitable future use of the seabed in the area.

### Specific aims:

1. To collect multibeam echosounder (MBES) data which will inform redistribution of ground-truthing stations if required and future management of the area.
2. To collect 30-50 Day grab (alternative Hamon and Shipek if sediment type unsuitable) samples which will be used for Particle Size Analysis (PSA), macrofauna analysis of infauna, heavy metal contaminants and polycyclic-aromatic hydrocarbons analysis.
3. To carry out 5/6, 2 m beam trawls to enable macrofauna analysis of epifauna.
4. To carry out 5/6 drop-down camera tows collecting video and still images.

**PLAN:**

Depart Fowey(unconfirmed) to arrive at survey site at approx. 10:00. Inductions/Drills to be carried out on transit if required.

Carry out reconnaissance for deployed fishing gear before carrying out MBES calibration patch test prior to beginning MBES survey (~12:00). MBES survey duration of ~20 hours. Ensure that watchers for fishing gear are available during MBES survey and gear positions marked.

Deploy Lander at station following MBES survey completion (~08:00 12/07/16 onwards).

Ground-truthing survey to be carried out following MBES data interrogation and successful Lander deployment (~16:00 12/07/16).

Day grab (or Shipek) will be rinsed with Pentane prior to deployment. Priority will be given to 30 stations with an additional 20 targeted if priority stations completed. Ensure smoking restrictions employed on deck area during deployment.

Video and 2 m beam trawls to be carried out depending on seafloor character observed in MBES data. Video to be deployed first where doubt exists. Beam trawl catches to be recorded as presence/absence of taxa.

Depart site ~18:00 14/07/16 if work completed to dock in Portland ~12:00 15/07/16.

**GEAR:**

MBES; Day grab (Hamon + Shipek possible alternative); 2 m beam trawl; drop-down video. For more detail see associated gear list.

Alex Callaway  
Scientist In Charge  
23/06/2016

INITIALLED: AC

DISTRIBUTION: