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

2015 RV Cefas Endeavour Programme: CEND01/15

TOTAL DURATION: 3rdth January-23rd January 2014

Part A: 3rd January-10th January 2015

STAFF:

Alex Callaway (SIC)	SIC
Alison Pettafor (Cefas)	B1

Day Shift

Sue Ware (Cefas)	C7
Matt Eade (Cefas)	C1
Sarah Watts (Cefas)	C6
James Cook (Cefas)	C5
Katie Arnold (EA)	C4
Verity Roberts (NE)	C8

Night Shift

Paul Whomersley (Cefas)	D5
Bryony Townhill (Cefas)	D2
Peter Randall (Cefas)	D3
Sara Stones (Cefas)	D4
Simon Pearson (Cefas)	D6
Nina Godsell (EA)	C2
Emma Foster (NE)	C3

Part B: 10th January-17th January 2015

Sue Ware (Cefas)	C7
Matt Eade (Cefas)	C1
Sarah Watts (Cefas)	C6
James Cook (Cefas)	C5
Ben Green (EA/NE)	C4
Nicola Edwards (NE)	C8

Night Shift

Paul Whomersley (Cefas)	D5
Bryony Townhill (Cefas)	D2
Peter Randall (Cefas)	D3
Sara Stones (Cefas)	D4
Simon Pearson (Cefas)	D6
Miriam Lugg (NE)	C2
Miriam Knollys (NE)	C3

Part C: 17th January-23rd January 2015

Day Shift	
Sue Ware (Cefas)	C7
Matt Eade (Cefas)	C1
Sarah Watts (Cefas)	C6
James Cook (Cefas)	C5
+1 NE	C4
+1 NE	C8

Night Shift

Paul Whomersley (Cefas)	D5
Bryony Townhill (Cefas)	D2
Peter Randall (Cefas)	D3
Sara Stones (Cefas)	D4
Simon Pearson (Cefas)	D6
+1 NE	C2
+1 NE	C3



GENERAL LOCATION: Survey Work Remaining from CEND 25/14

Figure 1. Location of MPA survey areas in the South West (Cape Bank, Scillies)

Remaining survey work not completed during CEND 25/14 may be carried out during CEND01/15.

This comprises a small block of MBES at Cape Bank along with approximately 15 GT stations (DC and HG). It is estimated that completion of this work will require approximately 3 days of survey.

Completion of the GT survey will also be carried out at the northern IoS iVMS site (DC and HG). It is estimated that this will require approximately 2 days of survey time.

GENERAL LOCATION: Fishing pressure survey

Indicator (IQI) testing and calibration study (proposed approach)

Location of the fishing pressure survey will be west of Lundy.



Figure 2. Location of the fishing pressure survey and experimental boxes - west of Lundy site.

The objective of this element of the survey is to design an experimental approach to test and calibrate the Infaunal Quality Index (IQI) indicator. The proposed design will be in one of the highlighted (in blue) cells. The design will include eight 500m² survey boxes, four reference boxes and 4 treatment boxes.

Experimental approach:

- 1. To acoustically survey each survey box using multibeam echosounder data.
- 2. To collect 20 benthic grab samples (10* Hamon grab and 10* Day grab) from each of the proposed survey boxes (before impact).
- 3. To collect epifaunal samples from each survey box using a 2 m scientific beam trawl (before impact).
- 4. To trawl using 2*4m beam trawls four of the eight survey boxes (treatment).
- 5. To collect 20 benthic grab samples (10* Hamon grab and 10* Day grab) from each of the proposed survey boxes (immediately after impact)
- 6. To collect epifaunal samples from each survey box using a 2 m scientific beam trawl (immediately after impact)
- To collect 20 benthic grab samples (10* Hamon grab and 10* Day grab) (March/April 2015) from each of the proposed survey boxes (recovery assessment)
- 8. To collect epifaunal samples (March/April 2015) from each survey box using a 2 m scientific beam trawl (recovery assessment)

Table 1. Survey sites, data to be collected (Multibeam MB, Grabs, Camera) and estimated survey time for each task.

ALL REMAINING TASKS

Site	МВ	GT (Grabs)	GT (Camera/SPI)	Total survey time (Days)
Cape Bank	1	0.5	0.5	2
Fishing Pressure Study/IQI Indicator development/calibration (Cefas, NE, JNCC, EA, IFCA)	ТВС	ТВС	ТВС	12
loS (Northern portion)		1	1	2
MortePlatform Control / Hythe Bay (R&D)	0	3	3	6
Transits				5
Crew change				2
Mob/Demob				2
Total				30

TASKS WITHOUT CAPE BANK, IoS iVMS and HYTHE BAY

Site	MB	GT (Grabs)	GT	Total
			(Camera/SPI)	survey
				time
				(Days)
Fishing Pressure Study/IQI Indicator	TBC	ТВС	ТВС	12
development/calibration (T0, T1)				
(Cefas, NE, JNCC, EA, IFCA)				
Transits				5
Crew change				2
Mob/Demob				2
Total				20