



RESEARCH VESSEL PROGRAMME

RV CEFAS ENDEAVOUR Survey: C END 17 - 2020

STAFF:

Name	Role	Cabin	Shift
Daniel Wood	SIC	B2	0600 - 1800
Sara Stones	2IC	B1	0600 - 1800
Gemma Kiff	Data Manager	C1	0600 – 1800
Ross Bullimore	Day Shift Lead	C6	1200- 0000
John Sperry	MBES	С7	1200- 0000
Bryan Goodsir-Thompson	MIST	C2	1200- 0000
Martin Cliffen	Survey Scientist	C4	1200- 0000
Brian Kneafsey	Survey Scientist	С3	1200- 0000
Danja Hoehn	Smart Buoy	C8	1200- 0000
Stefan Bolam	Night Shift Lead	D4	0000-1200
Alison Pettafor	MBES	D3	0000-1200
Axayacatl Molina-Ramirez	MIST	D2	0000-1200
Eleanor Haigh	Smart Buoy	D5	0000-1200
Sam Roslyn	Survey Scientist	C5	0000-1200
Anna Downie	GIS	D6	0000-1200

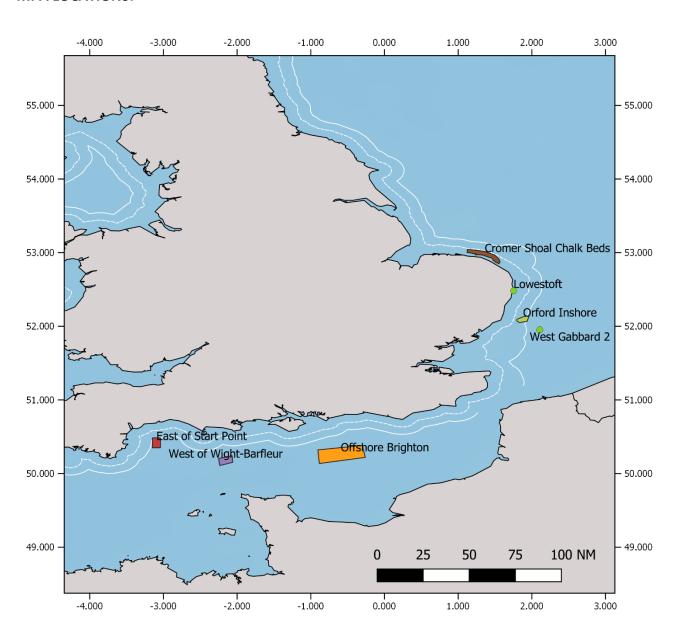
DURATION: 08th November 2020 – 2nd December 2020

Please note: that this is two survey back to back with no port call in between surveys. Part 1 is for Smart Buoys, Part 2 is for MPAs.





MPA LOCATIONS:



AIMS:

Part 1 - SmartBouy

- 1. Service Noise Landers at Dowsing and Warp (SLA20A)
- 2. Service SmartBuoys at West Gabbard and Warp (SLA25D)
- 3. Continuous flow and CTD Rosette water sampling as required
- 4. Collection of zooplankton sample at West Gabbard

Part 2 - MPA

- 5. Replace Smart Buoys and noise recorders.
- 6. Survey of Cromer Shoal Chalk Beds MCZ
- 7. Survey of Orford Inshore MCZ
- 8. Survey of West of Wight Barfleur Reef MCZ





- 9. Survey of East of Start Point MCZ
- 10. Survey of Offshore Brighton MCZ
- 11. CTD dips at historic sites

PLAN - Part 1 - SmartBuoys:

WGab1 Pre-recovery CTD,

WGab2 Recover and deploy SmartBuoy (51° 57'.256N, 002° 06'.677E)

WGab3 Post-deployment CTD

WGab4 Zooplankton net haul sample (in area of 51° 57'.2N, 002° 07'.2E).

During transit 2 hourly underway water samples will be taken.

Endeavour will then transit to the Warp site and carry out the following activities:

Warp1 Pre-recovery CTD,

Warp2 Recover and deploy SmartBuoy (51° 32′.010N - 001° 02′.896E)
Warp3 Recover and deploy Noise Lander (51° 31′.946N - 001° 02′.804E)

Warp4 Post-deployment CTD.

During transit 2 hourly underway water samples will be taken.

Overnight transit to the Dowsing site will be through two waypoints in the Thames plume:

TP1 Underway sample-steam through (51° 54′.430N 001° 31′.355E)
TP2 Underway sample-steam through (52° 11′.560N 001° 41′.075E)

2 hourly underway water sampling will then continue to the Dowsing site.

At the Dowsing site Endeavour will carry out the following activities:

Dow1 Recover and deploy Noise Lander (53° 31'.737N, 001° 03'.208E)

Dow2 CTD

Once the mooring work is complete, Endeavour will then make its way back south towards Lowestoft, carrying out additional CTDs at the following sites, time permitting:

Humb1 CTD (53° 32′.0N, 000° 20′.0E) Wash1 CTD (53° 3′.50N, 000° 28′.5E)

PLAN - Part 2 - MPA Tour:

- 1. Transit to Cromer Shoal Chalk Beds MCZ. Collect mini Hamon grab samples at 50 stations
- 2. Transit to Orford Inshore MCZ. Collect drop camera imagery at 40 stations.
- 3. Transit to West of Wight Barfleur Reef MCZ. Collect MBES data.





- 4. Transit to East of Start Point MCZ. Collect Camera Sledge imagery at 14 stations and mini Hamon grab samples at 3 stations.
- 5. Transit to West of Wight Barfleur Reef MCZ. Collect drop camera imagery at 46 stations and mini Hamon grabs samples at 20 stations.
- 6. Transit to Offshore Brighton MCZ. Collect MBES data.
- 7. Transit to Orford inshore MCZ. Collect MBES data and drop camera imagery at 100 stations.
- 8. CTD dips at the stations listed below.
- 9. Return to Lowestoft.

CTD Station Name	Latitude	Longitude
South Varne	50.9333	1.28
Selsey Bill	50.6783	-0.8267
Central Channel	50.0833	-3

Note running order of survey operations may change in the event of weather or other delays. Revisions to be agreed with Master.

GEAR:

Drop Camera, mini Hamon grab, Camera Sledge, Multibeam, CTD and Smart Buoys (see gear list).

Daniel Wood and Sara Stones Scientist in Charge and 2IC 23 October 2020

DISTRIBUTION:

BODC AWSM