



### **RESEARCH VESSEL PROGRAMME**

## RV CEFAS ENDEAVOUR Survey: C END 12 - 2021

#### STAFF:

Name	Role	Cabin	Shift
Manuel Nicolaus	SIC	SIC	Days
Eleanor Haigh	2IC/water	B2	12:00-00:00
Bryan Goodsir-Thompson	Deck lead	C3	Days
Axayacatl Molina-Ramirez	Deck	C4	Days
Annie Meadows	Deck	C1	Days
Tom Hull	Deck	C5	Days
Rodney Brash	Deck	C2	Days
Elise Brabben	Water lead (nights)	C7	00:00-12:00
Isobel Lake	Water	C6	00:00-12:00
Mollie Allerton	Water	C8	12:00-00:00
Uwe Posner	Ferrybox	D4	Days
Sven Drechsler	Ferrybox	D5	Days

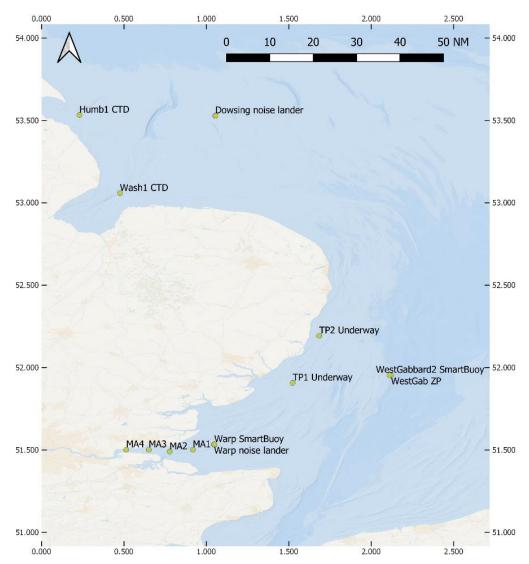
# DURATION: 20<sup>th</sup> August evening tide to 22<sup>nd</sup> August evening tide

### LOCATION: North Sea (all coordinates N,E)

Dowsing lander:	53° 31.749	1° 03.228	53.529	1.0538
Dowsing clump:	53° 31.74	1° 03.36	53.529	1.056
Warp SB:	51° 31.98	1° 02.8758	51.533	1.04793
Warp lander:	51° 31.938	1° 02.796	51.5323	1.0466
Warp clump:	51° 32.016	1°2.7822	51.5336	1.04637
WestGab2:	51° 57.246	2° 06.66	51.9541	2.111
WestGab2 ZP:	51° 57.2	2° 07.2	51.953	2.12
TP1 Underway	51° 54.430	1° 31.355	51.907	1.523
TP2 Underway	52° 11.560	1° 41.075	52.193	1.685
Humb1CTD	53° 32.0	0° 20.0	53.533	0.333
Wash1 CTD	53° 3.50	0° 28.5	53.058	0.475
MA1 underway:	$51^\circ$ 30.085	0° 55.087	51.501	0.918
MA2 underway	51° 29.374	0° 46.609	51.489	0.777
MA3 underway	51° 30.086	0° 39.017	51.501	0.650
MA4 underway	51° 30.084	0° 30.822	51.501	0.514







### AIMS:

- 1. Service Noise Landers at Dowsing and Warp (GIA6H)
- 2. Service SmartBuoys at West Gabbard and Warp (GIA03D)
- 3. Continuous flow and CTD Rosette water sampling as required on various transects
- 4. Collection of zooplankton sample at West Gabbard
- 5. Service of Ferrybox
- 6. Test deployment and recovery of Waveglider

### PLAN:

Leaving 20:00 on the 20<sup>th</sup> August (depending on test results)

Return at 23:00 of the 22<sup>nd</sup> August staff leaving on the 23<sup>rd</sup> August





RV Cefas Endeavour will sail at depending on testing and steam south to the Warp site and carry out the following activities:

Warp1	Pre-recovery CTD,
Warp2	Recover and deploy SmartBuoy (51° 31.98 -001° 02.8758)
Warp3	Recover and deploy Noise Lander (51° 32.016-001°02.7822)
Warp4	Post-deployment CTD.

Transit 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)

During transit hourly underway water samples will be taken.

In the event of early arrival at Warp, an additional steam into the Thames will be taken following suggested waypoints MA1-4. A transect of underway samples and one CTD will be taken along the Thames route.

Endeavour will then transit to the West Gabbard 2 site and carry out the following activities:

WGab1	Waveglider deployment
WGab2	Pre-recovery CTD,
WGab3	Recover and deploy SmartBuoy (51° 57.246 -2° 06.66)
WGab4	Waveglider recovery
WGab5	Post-deployment CTD
WGab6	Zooplankton net haul sample (in area of 51° 57'.2N, 002° 07'.2E).

During transit 2 hourly underway water samples will be taken.

Transit will then be to the following CTD sites:

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

Upon entry to the Humber and Wash plume areas underways sampling will increase to hourly.

Endeavour will then continue to the Dowsing site to carry out the following activities:

Dow1Recover and deploy Noise Lander (53° 31.74 -1° 03.36)Dow2CTD

Once the mooring work is complete, Endeavour will then make its way to Lowestoft.

Docking on evening tide, 22<sup>nd</sup> August.

Exact order of operations to be determined in consultation with the Master. If the weather is poor, the route may be revised.



Gear:

See Gear List



Scientist in Charge: E. E. Manuel Nicolaus Second Scientist in Charge: Eleanor Haigh

Date: 29/07/2021

DISTRIBUTION:

BODC MIST AW Staff