

RESEARCH VESSEL PROGRAMME

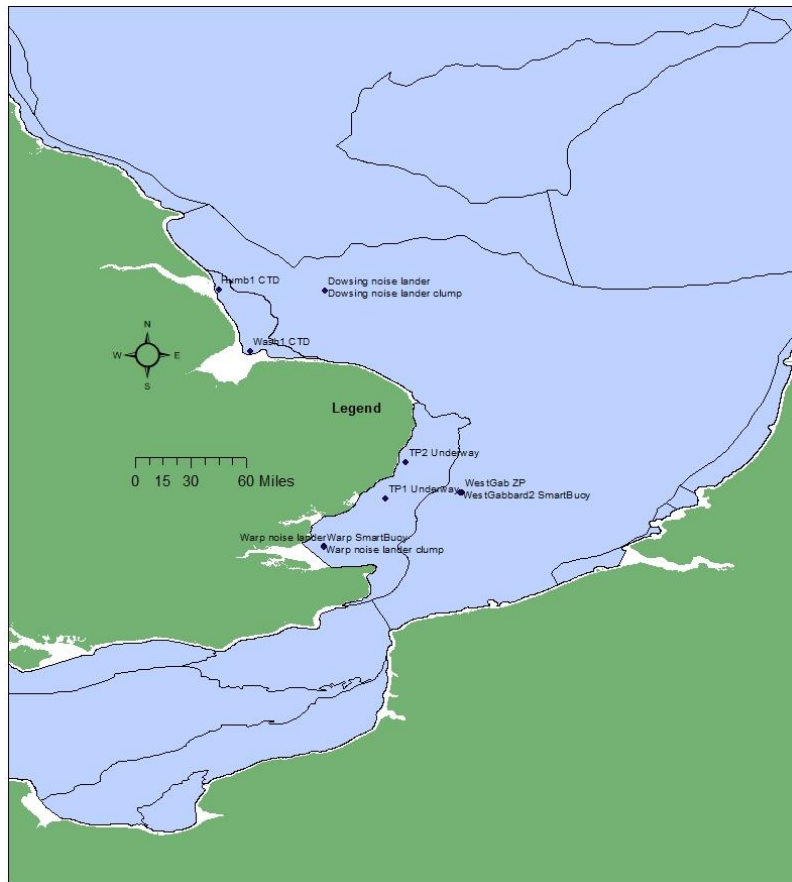
**RV CEFAS ENDEAVOUR
Survey: C END 06 - 2022**

STAFF:

No.	Name	Role	Cabin	Shift	Joining time
1	E. E. Manuel Nicolaus	SIC	SIC Cabin	7-19:00	
2	Axayacatl Molina-Ramirez	Deck lead	B1	7-19:00	
3	Danja Hoehn	Manta/Water	B2	7-19:00	
4	Mollie Allerton	Water	C1		
5	Tom Hull	2IC; Deck; Data Manager	C2	7-19:00	
6	Peter Hamstead	Water support	C3	00:00-12:00	
7			C4		
8	Elise Brabben	Water lead	C5	00:00-12:00	
9	Izzy Lake	Night shift Lead Chemical lead	C6	12:00-00:00	
10	Freya Mickleburgh	Water support	C7	12:00-00:00	
11			C8		
12			D2		
13			D3		
14	Matt Brown	ESMx	D4	7-19:00	
15			D5		
16			D6		

DURATION: 30th April to 1st May 2022.

LOCATION: North Sea (all coordinates N, E)



Stations	Latitude	Longitude	Site name
1	51.95557	2.129267	WESTGAB2 CTD
2	51.95278	2.121783	WESTGAB2 Zoo
3	51.52753	1.040283	WARP (TH1)
4	53.52652	1.071917	Dowsing
5	51.50142	0.918126	MA1 Thames
6	51.48957	0.776822	MA2 Thames
7	51.50143	0.650281	MA3 Thames
8	51.5014	0.513703	MA4 Thames
9	51.907	1.523	TP1 UW
10	52.193	1.685	TP2 UW
11	52	2.3333	Thames (Gabbard) CTD
12	51.994	2.099	Thames (Gabbard SB) CTD
13	51.5133	0.9667	Thames (Warp) CTD
14	53.533	0.227	Humb1
15	54.058	0.474	Wash1

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 and Warp
5. Manta-trawling and water pump (C8374P) on transects depending on weather at 4-6knots
6. Supporting PhD study

PLAN:

Joining the vessel on the 29th April 2022

Leaving Lowestoft port at XX:XX (TBC) on the 30th April 2022

Day 1

RV Cefas Endeavour will initially steam south to the Warp site and carry out the following activities:

Warp1	Pre-recovery CTD,
Warp2	Recover and deploy SmartBuoy (51.525; 1.031666667)
Warp3	Recover and deploy Noise Lander (51.532311; 1.0467395)
Warp4	Recover and deploy NL clump (51.5335432; 1.0468029)
Warp5	Post-deployment CTD and zooplankton haul

Transit will be through two waypoints in the Thames plume:

TP1	Underway sample-steam through (51.907; 1.523)
TP2	Underway sample-steam through (52.193; 1.685)

During transit hourly underway water samples will be taken.

Samples will also be collected up the Thames MA1-MA4.

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

WGab1	Pre-recovery CTD,
WGab2	Recover and deploy SmartBuoy (51.95458333; 2.1096)
WGab3	Post-deployment CTD
WGab4	Zooplankton net haul sample (in area of 51° 57'.2N; 002° 07'.2E).

During transit to Dowsing underway water samples will be taken.

Day 2

Keep on collecting Humber and Humb 1 CTDs. Transit east to Dowsing WR and Noiselander service.

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

Dow1	Recover Lost Noise Lander (53.5301399; 1.0564649)
Dow2	Recover and deploy Noise Lander (53.53133333, 1.053166667)
Dow3	Recover NL clump (53.5293788; 1.050179)
Dow4	CTD

Manta trawling on route. Moving SW to Wash and complete the underway water samples. Depending on available time, carry out more underway and manta trawl samples.

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

Humb1 CTD (53° 32'.0N, 000° 20'.0E; 53.533; 0.227E)
Wash1 CTD (53° 3'.50N, 000° 28'.5E; 54.058; 0.474E)

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

Equipment:

See Equipment List

Manuel Nicolaus
Scientist in Charge

Tom Hull
Second Scientist in Charge

Date: 15/03/2022

DISTRIBUTION:

BODC
Marine Ops
Marine Tech
AWSM
Staff