

**RESEARCH VESSEL SURVEY REPORT**

**RV CEFAS ENDEAVOUR  
Survey: C END 07 - 2021**

**STAFF:**

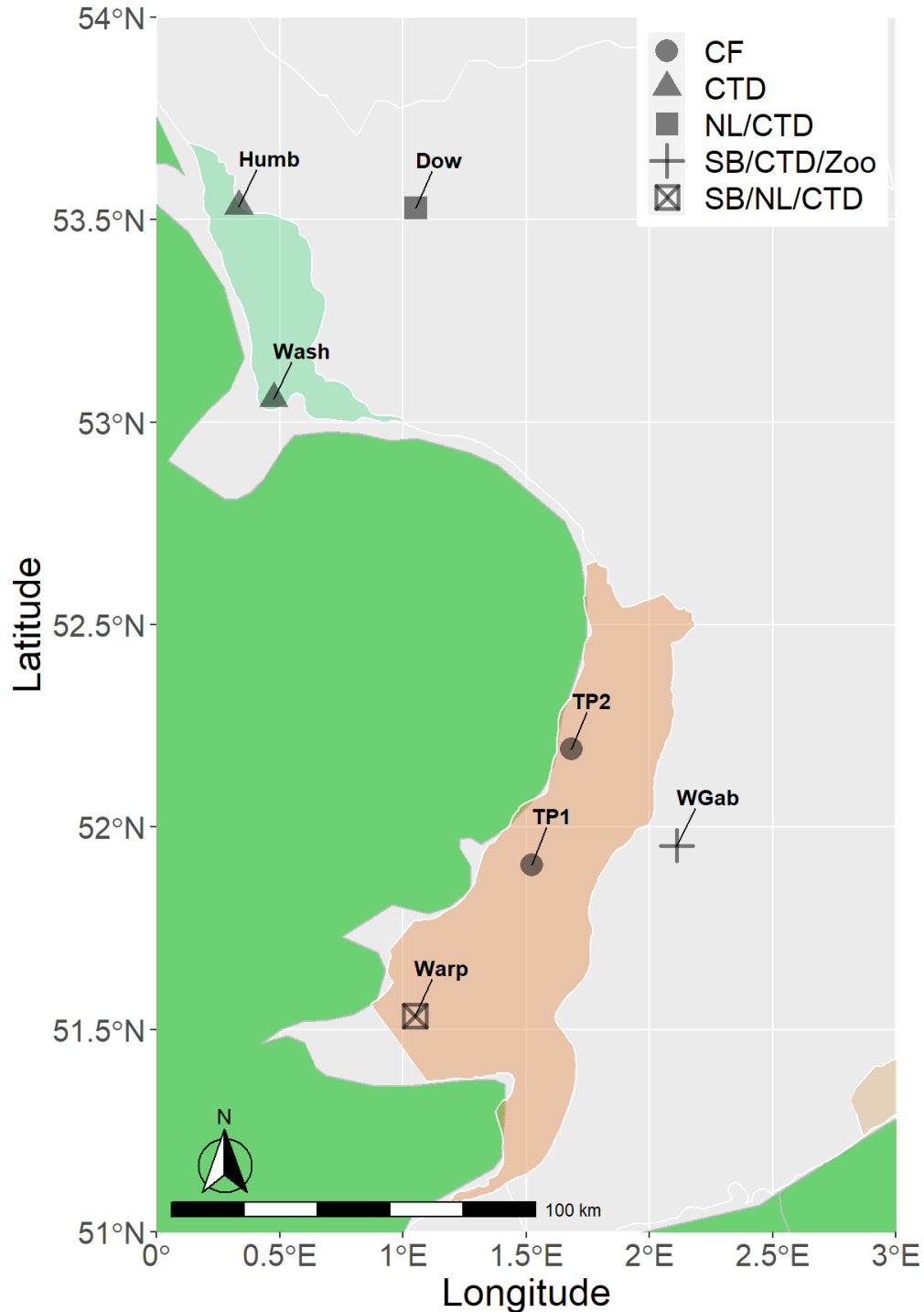
Name	Role	Cabin	Shift
Elisa Capuzzo	SIC	B2	Day 06:00-18:00
Eleanor Haigh	2IC/Water Sampling	C1	Day 12:00-00:00
Danja Hoehn	Deck Lead	C2	Day 06:00-18:00
Bryan Goodsir-Thompson	Back Deck	C3	Day 06:00-18:00
Axayacatl Molina-Ramirez	Back Deck	C4	Day 06:00-18:00
Isobel Lake	Water Sampling Night Lead	C6	Night 00:00-12:00
Elise Brabben	Water Sampling Night	C5	Night 00:00-12:00
Mollie Allerton	Water Sampling Day	C7	Day 12:00-00:00

**DURATION:** 8<sup>th</sup> May to 9<sup>th</sup> May (2 days)

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

Dowsing (clump):	53° 31.744	1° 3.376	53.529	1.056
Dowsing (lander):	53° 31.747	1° 3.228	53.529	1.054
Warp SB:	51° 31.992	1° 2.856	51.533	1.048
Warp NL (clump):	51° 31.996	1° 2.716	51.533	1.045
Warp NL (lander):	51° 31.939	1° 2.794	51.532	1.047
WestGab2:	51° 57.233	2° 6.655	51.954	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° 13.823	53.533	0.230
Wash1 CTD	53° 3'.50	0° 28'.5	53.058	0.475

## CEND 17/20



### AIMS:

1. Service Noise Landers at Dowsing and Warp
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

**PLAN:**

Boarding and sailing time TBC depending on testing schedule and results.

RV Cefas Endeavour will steam south to the West Gabbard 2 site and carry out the following activities:

- WGab1 Pre-recovery CTD,
- WGab2 Recover and deploy SmartBuoy (51° 57.233 N, 002° 6.655E)
- 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° 31.992 N, 001° 2.856E)
- Warp3 Recover and deploy Noise Lander (51° 31.996 N, 001° 2.716E)
- 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° 31.744 N, 001° 3.376E)
- Dow2 CTD

Two CTD dips will be completed before return to Lowestoft:

- Humb1 CTD (53° 32'.0N, 000° 13.823E)
- Wash1 CTD (53° 3'.50N, 000° 28'.5E)

Hourly underway sampling will be completed in the transit between CTD sites, 2 hourly sampling will be completed during the transit back to Lowestoft.

Before reaching Lowestoft, surface water will be collected in 6x20L carboys from the underway system and 4x20L from the rosette niskin bottles.

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

**Elisa Capuzzo**  
Scientist in Charge

**Eleanor Haigh**  
Second in Charge

Date: 21<sup>st</sup> April 2021

**DISTRIBUTION:**

BODC  
MIST  
AWSM  
Staff