

**RESEARCH VESSEL PROGRAMME**

**RV CEFAS ENDEAVOUR  
Survey: C END 02 - 2020**

**STAFF:**

Name	Role	Cabin	Shift
Marc Whybrow	SIC	B2	Day
Oliver Twigge	Moorings Lead	C1	Day
Naomi Greenwood	2IC/Water Sampling Lead	B1	12:00 – 00:00
Eleanor Haigh	Water Sampling Lead	C5	00:00 – 12:00
Isobel Lake	Water Sampling	C6	00:00 – 12:00
Caroline Whybrow	Water Sampling	D3	12:00 – 00:00
Dave Pearce	Deck Lead	C2	Day
Malgorzata Wilczynska	Moorings Support	D4	Day
Bryan Goodsir-Thompson	Moorings	D6	Day
Uwe Posner	FerryBox	C7	
Sven Drechsler	FerryBox	C8	

**DURATION:** 3<sup>rd</sup> February 2020 – 8<sup>th</sup> February 2020

**LOCATION:** North Sea

**AIMS:**

1. Service Noise Landers at Dowsing, Warp (SLA20A 1 day)
2. Service SmartBuoys at West Gabbard 2 and Warp (SLA25SD 2 days)
3. Collection of Zooplankton sample at West Gabbard
4. Service Waveriders at Firth of Forth, Tyne/Tees, Torness and South Knock (C6029A 3 days)
5. Continuous flow and CTD Rosette water sampling

**PLAN:**

RV Cefas Endeavour will sail at 02:30hrs on Monday 3<sup>rd</sup> February 2020 and steam north towards the Dowsing Noise Lander (53° 31'.7345N, 001° 03'.1897E), once complete we will head to the Wash water sampling CTD site (53° 03'.5N, 000° 28'.5E), then we will head to the Humber water sampling CTD station (53° 32'.0N, 000° 20'.0E).

Overnight we will transit to the Tyne/Tees Waverider site ( $54^{\circ} 55'.140N$ ,  $000^{\circ} 44'.920W$ ), and the two Tyne/Tees water sample CTD sites at ( $54^{\circ} 44'.0N$ ,  $000^{\circ} 53'.0W$ ) (Off Tees) and ( $55^{\circ} 00'.5N$ ,  $001^{\circ} 08'.0W$ ) (Off Tyne).

Overnight we will transit to the Firth of Forth and at first light, we will service the Waverider ( $56^{\circ} 11'.260N$ ,  $002^{\circ} 30'.250W$ ) and on the same day, we will service the Torness Waverider and guard buoy ( $55^{\circ} 58'.786N$ ,  $002^{\circ} 24'.564W$ ), ensuring all necessary communications with the Torness Power Station personnel.

On the afternoon on the 5<sup>th</sup> February we will then transit to the West Gabbard 2 SmartBuoy ( $51^{\circ} 57'.2614N$ ,  $002^{\circ} 06'.6576E$ ) and Zooplankton area ( $51^{\circ} 58.0421N$ ,  $002^{\circ} 07.1309E$ ), to arrive at first light on the 7<sup>th</sup> February. On same day we will head towards the South Knock Waverider service site ( $51^{\circ} 34'.230N$ ,  $001^{\circ} 34'.700E$ ). During the transit we plan to collect CTD Rosette water samples at ( $54^{\circ} 50'.0N$ ,  $1^{\circ} 20'.0E$ ); ( $54^{\circ} 00'.0N$ ,  $2^{\circ} 00'.0E$ ); and ( $52^{\circ} 50'.0N$ ,  $2^{\circ} 50'.0E$ ).

Overnight we will transit to the Warp SmartBuoy ( $51^{\circ} 32'.002N$  -  $001^{\circ} 02'.8980E$ ) and Noise Lander ( $53^{\circ} 31'.7345N$  -  $001^{\circ} 03'.1897E$ ) to arrive at first light on the 8<sup>th</sup> February.

We will then transit back towards Lowestoft to pick up the 21:00hrs evening tide.

During the survey we will be collecting underway water samples from the Ferrybox and spatial CTD Rosette water samples.

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

Marc Whybrow  
Scientist in Charge  
21<sup>st</sup> January 2020

**DISTRIBUTION:**

Survey Staff  
RV Ops Manager  
POMS  
Mist Services  
BODC