

**RESEARCH VESSEL PROGRAMME**

**RV CEFAS ENDEAVOUR  
Survey: C END 07 - 2018**

**STAFF:**

Name	Role	Cabin	Shift
Elisa Capuzzo	SIC	B1	Day
David Pearce	2IC / Mooring	C2	Day
Andrew Bodle	Multibeam	C3	Day
Eric Fitton	Mooring/Chem	C6	Day
Sophie Hare	Mooring	C5	Day
Stephen Woodward	Gliders	C8	Day
Tom Hull	Gliders	C1	Day
Fabio Campanella	Acoustic	B2	Day
Pip Simpson	Student	C7	Day
Martina Bristow	Student	C4	Day

**DURATION:** 6<sup>th</sup> May to 12<sup>th</sup> May 2018

**MOBILISE:** LOWESTOFT

**DEMOBILISE:** LOWESTOFT

**OPERATION AREAS:** North Sea

**AIMS:**

1. Service SmartBuoys at Dowsing, Warp and West Gabbard2 (SLA25G – 2 day);
2. Vattenfall Norfolk Vanguard: Waverider service, lander deployment, multibeam, grab and water sampling (C7311B – ½ day);
3. Vattenfall Norfolk Boreas: deployment of Waverider, lander, 2 guard buoys, multibeam, grab and water sampling (C7645B – ½ day);
4. AlterEco: deployment Wave Glider; deployments seaglidors and Slocum Glider; zooplankton net hauls (C7114A – 3 days);
5. Service Waverider at Dowsing and West Gabbard2 (C6029A – 1 day);
6. Service noise landers at Dowsing and Warp (SLA20A – 0.5 day);
7. Collection of zooplankton samples to test presence of microsporidia lineages in copepods;
8. Collection of zooplankton sample at West Gabbard for community composition analysis.
9. Integration of a Cefas water sampler with the Ferrybox system for the collection of nutrients and phytoplankton samples.

**PLAN:**

The RV Cefas Endeavour will sail at about 01:00 on Sunday 6<sup>th</sup> May 2018 and steam northward to Vattenfall Norfolk Vanguard, where the Waverider will be serviced, and a lander deployed. Multibeam, grab and water sampling will be also carried at this site. The SmartBuoy, Waverider and the 'noise lander' at Dowsing will be serviced on the afternoon of the same day.

The Endeavour will progress towards the Vattenfall Norfolk Boreas, where a Waverider, a lander and 2 guard buoys will be deployed, in addition to carry out multibeam, grab and water sampling (Monday 7<sup>th</sup> May). The vessel will steam towards north of the Dogger Bank for carrying out the AlterEco work (Tuesday 8<sup>th</sup> - Thursday 10<sup>th</sup>); this will include deployment of gliders and zooplankton net hauls.

On Thursday 10<sup>th</sup> May, the Endeavour will progress towards the SmartBuoys at Warp and West Gabbard2 which will be serviced on Friday (11<sup>th</sup>) and Saturday (12<sup>th</sup>). The noise lander at Warp and the Waverider at West Gabbard2 will also be serviced.

A zooplankton vertical net sample will be collected at West Gabbard2, Dowsing and Warp.

In addition, a Cefas water sampler will be integrated with the Ferrybox system for the collection of nutrients and phytoplankton samples.

The Endeavour will return to port in Lowestoft on the 19:10 tide, 12<sup>th</sup> May 2018.

Exact order of operations will 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  
12/04/2018

INITIALLED:

DISTRIBUTION:

BODC  
P&O  
RV Ops Manager