

RESEARCH VESSEL PROGRAMME

**RV CEFAS ENDEAVOUR
Survey: C END 02 - 2019**

STAFF:

Name	Role	Cabin	Shift
Elisa Capuzzo	SIC	B1	Day
Dave Pearce	2IC / Mooring	C2	Day
Oliver Twigge	Mooring / Chem	C3	Day
Eric Fitton	Mooring	C6	Day
Axayacatl Molina-Ramirez	Mooring / Chem	C5	Day
Naomi Greenwood	Mooring / Chem	B2	Day
Uwe Posner	Ferrybox	C7	Day

DURATION: 27th January to 2nd February 2019

MOBILISE: LOWESTOFT

DEMOBILISE: LOWESTOFT

OPERATION AREAS: North Sea

AIMS:

1. Service SmartBuoys at Dowsing, Warp and West Gabbard (SLA25G – 2.5 day).
2. Service Waverider at Firth of Forth, Tyne/Tees, Torness and South Knock (C6029A – 2 days).
3. Service South Knock and Southwold guard buoys (C6029A – 0.5 day).
4. Service landers and water samples at Vattenfall Vanguard (C7311B – 0.5 day).
5. Service landers and water samples at Vattenfall Boreas (C7645B – 0.5 day).
6. Service noise landers at Dowsing and Warp (SLA20A – 0.5 day).
7. Recover lander and guard buoy on War Mehtar (C6107M – 0.5 day).
8. Underway nutrient sampling using the Ferrybox water sampler.
9. Collection of a zooplankton sample at West Gabbard.
10. Collection of surface seawater sample for DOM (Dissolved Organic Matter) extraction for use in experiments at UEA (part of the REMAIN project).

PLAN:

RV Cefas Endeavour will sail at about 02:00 on Sunday 27th January 2019 and steam northward to Vattenfall Norfolk Vanguard, where the lander will be serviced. Water sampling will be carried at this site, before and after servicing the lander. On the same day, the Endeavour will progress towards the Vattenfall Norfolk Boreas, where the lander will be serviced, in addition to carry out water sampling.

The Waverider at Tyne/Tees will be serviced the following day (Monday 28th January), in the morning, and the Waverider at Firth of Forth the same evening.

The RV will remain in the area overnight for servicing the Torness Waverider and guard buoy on the morning of Tuesday 29th January. The nuclear power station at Torness will listen in to the toolbox talk on the bridge before recovering the Waverider and guard buoy.

The SmartBuoy and the noise lander at Dowsing will be serviced the following day (Wednesday 30th January), in the morning.

The Endeavour will carry on steaming south, to service the SmartBuoy and noise lander at the Warp and a Waverider and guard buoy at South Knock (Thursday 31st January).

The West Gabbard 2 SmartBuoy and the Southwold guard buoy will be serviced on the following day (1st February 2019). A vertical net sample for zooplankton analysis will also be collected at West Gabbard 2.

The RV will then steam north, with the lander and guard buoy on War Mehtar being recovered on Saturday 2nd January.

Surface seawater for DOM (Dissolved Organic Matter) extraction for use in experiments at UEA will be collected before return to Lowestoft.

The Endeavour will return to port in Lowestoft on the 20:30 tide, 2nd February 2018.

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
08/01/2019

DISTRIBUTION:

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Staff