



RESEARCH VESSEL PROGRAMME

RV CEFAS ENDEAVOUR Survey: C END 11 - 2020

STAFF:

Name	Role	Cabin
Jo Smith	SIC	SIC
Linford Mann	2IC	B1
Mary Brown		B2
Charlotte Jennings		C5
Matthew Eade		C1
Chris Popham		C2
Jo Ford		C3

DURATION: 13/7/2020 – 25/7/2019

LOCATION: Southern North Sea and Eastern Channel (Appendix 1)

AIMS: PRIMARY AIMS:

- 1. To undertake a beam trawl survey in the southern North Sea and eastern Channel as part of an ICES co-ordinated research programme.
- 2. To obtain fisheries independent data on the distribution and abundance of commercial flatfish species.
- 3. To collect biological data, including maturity and weight at age of commercial species, to satisfy the requirements of the EU data regulations.
- 4. To identify the epibenthos by catch taken in the 4-metre beam trawl and to quantify 12 species as agreed at the Beam Trawl Working Group.

SECONDARY AIMS:

- 5. To collect full depth, conductivity, temperature and depth profiles at each trawl station alongside surface and near-bottom water samples using a Niskin with ESM2 logger.
- 6. To continuously log sub-surface (3m) salinity, temperature, fluorometry and other environmental data using the 'Ferrybox'.
- 7. To sample litter caught in the beam trawl on every station
- 8. Collection of one sample 500m from the West Gabbard Smart buoy for (Sophie Petois, Cefas Lowestoft)





9. The collection & preparation of water samples for chlorophyll determination (Naomi Greenwood, Cefas)

OPPORTUNISTIC AIMS:

- 1. To tag and release specimens of various commercially exploited skates (*Rajidae*) and other selected elasmobranches.
- 2. Collect specimens of selected species for ID purposes as well as length-weight measurements where still required.
- 3. Collect information on discard survivability of starry smooth-hounds (*M. asterias*) (Jo Silva, Cefas)

PLAN:

I will join the vessel on afternoon of 10 July to check on survey gear and discuss plans with the master. Staff will join the vessel in Lowestoft on 9 July and following testing for the COVID-19 virus, staff will self-isolate in allocated cabins for a period of around 48 hours awaiting the test results. Following a set of negative test result, scientific staff will begin the task of preparing for the survey including gear checks and EDC set up. All staff will be required to remain on-board for this time and will stay aboard until the survey has been completed.

Cefas Endeavour will likely sail on 13 July, although there is the possibility that this may be delayed (3 days max) whilst awaiting results from the tests. The survey days at sea will be a maximum of 13 days.

A shake-down tow will be carried out off the Suffolk coast to fully test all survey sampling gear, equipment, and software systems. This will be carried out on a survey station close to Southwold (Appendix I), followed by a day fishing in the same area.

The vessel will begin work the following morning fishing in the Folkstone area, proceeding to work in an easterly direction completing fishing stations, along the English coast.

Once the English sector is completed the vessel will follow the grid across the channel and begin work at the western end of France and survey eastwards. Following completion of the French sector the vessel will proceed to complete the North Sea stations, working in a northerly direction and if time allows stations off the Belgium coast will be fished. All stations will be fished using a warp ratio of 3.5:1 if practical.

GEAR: Gear list provided

J smith Scientist in Charge 1/7/2020





INITIALLED: I Holmes

DISTRIBUTION:

Survey participants
Cefas fisheries survey SICs/2ICs
BODC
Daniel Evans/B Salter (AWSM)
Master/Fishing Skipper (Cefas Endeavour)
Marine Management Organisation (MMO)
Marine Management Organisation Licencing (MMO)
Marine Management Organisation Conservation (MMO)
FCO (for Belgium, Netherlands & France)
Els Torreele, Belgium
Sieto Verver, Netherland
Joel Vigneau, France

Kent and Essex, Sussex, Southern and Eastern IFCAs





Annex A

Plot of stations in the 7d beam trawl survey

