

## RESEARCH VESSEL PROGRAMME

**RV CEFAS ENDEAVOUR**  
**Survey: C END 12 - 2018**

### **STAFF:**

Name	Role	Cabin	Shift
Jo Smith	SIC	SIC	
Steve Shaw	2IC	B1	
Mary Brown		B2	
Charlotte Jennings		C3	
Gary Burt		C5	
James Pettigrew		D6	
Chris Popham		C6	
Coline Lazard		D2	
TBC		D3	

**DURATION:** 14/7/2018 – 27/7/2018

**LOCATION:** *Please provide a detailed map and state longitudes and latitudes*

### **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)

#### OPPORTUNISTIC AIMS:

1. Carry out additional tows to tag and release sole (*Solea solea*) as part of an Ifremer and Agrocampus Ouest project (SMAC).
2. To tag and release specimens of various commercially exploited skates (*Rajidae*) and other selected elasmobranchs.
3. Collect specimens of selected species for ID purposes as well as length-weight measurements where still required.

#### PLAN:

Myself, Steve and Charlotte will join the Cefas Endeavour in Fowey on the 12<sup>th</sup> July to load gear and set up the EDC system in the fishroom. The remaining scientific crew will join the vessel on the afternoon of the 13<sup>th</sup> July. Endeavour will sail from Fowey on the evening of the 13<sup>th</sup> July after the gear is loaded, checked and rigged, to allow time to steam 10 hours to start the survey the following morning, in the Poole area.

A shakedown tow will be carried out before the start of the survey to ensure all systems are working correctly. This will be carried out on a survey station close to Poole, followed by a day fishing in the same area. The vessel will then proceed to work in an easterly direction completing fishing stations, along the English coast. Two boat transfers of P&O crew will be carried out on the 18<sup>th</sup>, to allow a changeover of master and chief engineer. Once the English sector is completed the vessel will proceed, overnight to the western end of the 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. The comparison tows, as indicated on the map, will be picked up during the course of the survey, time permitting.

On completion of the survey the vessel will steam overnight to allow midday docking in Tesside, on the 27<sup>th</sup> July. Staff will travel back to Lowestoft the following morning.

#### GEAR: Gear list provided

Name J smith  
Scientist in Charge  
Date 9/7/2018

INITIALLED: I Holmes

**DISTRIBUTION:**

Survey participants

Cefas fisheries survey SICs/2ICs

Cefas Trim

J Maitland/B Salter (P&O Maritime Services)

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

**Appendix I** Plot of stations in the 7d beam trawl survey

