

RESEARCH VESSEL PROGRAMME

**RV CEFAS ENDEAVOUR
Survey: C END 14 - 2019**

STAFF:

Part 1		Part 2	
Name	Role	Name	Role
S Shaw	SIC	S Shaw	SIC
S Walmsley	2IC	S Walmsley	2IC
F Mynott	Sampler	F Mynott	Sampler
G Eastley	Deckmaster	G Eastley	Deckmaster
J Ford	Sampler	J Ford	Sampler
G Thomas	Sampler	G Thomas	Sampler
S Songer	Sampler	C Reeve	Sampler
M Kinneen	Irish Observer	M Kinneen	Irish Observer

DURATION: 8th to 28th September 2019 (21 Days)

LOCATION: Irish Sea (VIIa), Bristol Channel & Celtic Sea (VIIfg)

AIMS:

1. To carry out a 4m beam-trawl survey of groundfish (Figure 1) to i) obtain fisheries independent data on the distribution and abundance of commercial flatfish species, and ii) derive age compositions of sole, plaice, cod and whiting for use in stock assessments.
2. To collect biological data including maturity and weight at age of sole, plaice, lemon sole and other commercially important finfish species as part of CEFAS' requirements under the EU Data Collection Framework.
3. To determine the distribution and relative abundance of juvenile and adult sole and plaice.
4. To collect surface & bottom temperature/salinity data using CTD and Niskin Bottle.
5. To quantify epibenthos and using 4m beam trawl by-catch.
6. Collect length/weight & maturity information using individual fish measurements, in support of the EU Data Collection Framework.
7. To collect surface sea-water samples for processing on return to Lowestoft for the analysis of tritium (AE001) (K Leonard - Cefas).
8. To collect fish samples in support of Cefas and non-Cefas projects and training courses.
9. Retain any dead specimens of diadromous fish for the DiadES Interreg project (T Basic - Cefas, Lowestoft)
10. Collect chlorophyll samples to test for nutrients from the surface water for the ASMIAC project. (N Greenwood – Cefas, Lowestoft)

PLAN:

RV Cefas Endeavour will sail from Lowestoft on the 8th September and will head directly to the first priority sampling 'grid' in the inner Bristol Channel (BCI). Upon completion of the BCI survey grid, RV Cefas Endeavour will then head north fishing stations en-route to the other priority sampling grids in the Irish Sea south and north sectors (ISS/ISN). Once completed, the remaining survey grids of Irish Sea West (ISW), St. Georges Channel (SGC) and Bristol Channel outer (BCO) will be fished.

At the first and last fishing stations of each working day, a CTD profile and associated surface and bottom salinity samples will be collected. It is anticipated that a mid-survey break will occur on day twelve of the survey (~19th September) with the location likely to be Douglas, IOM. This will allow for a changeover of scientific staff and vessel's officers and crew and for the vessel to take on fresh supplies and water. At the end of the survey, RV Cefas Endeavour will dock in Swansea on the 28th September and unloading of equipment will be carried out the next day.

GEAR:

Gear list distributed separately.

S M Shaw
Scientist in Charge
3rd June 2019

INITIALLED: IDH

DISTRIBUTION:

Cefas survey staff
Fisheries SICs/2ICs
Gary Burt (for TRIM)
J Maitland (P&O Maritime Services)
Master Cefas Endeavour
I Holmes
S Kupschus
P Connolly (Marine Institute, Galway)
P J Schon (AFBINI)
FCO (for Republic of Ireland)
Marine Management Organisation (MMO) – Conservation, Licencing and Derogations.
Welsh Government (WG)
Natural Resources Wales
Devon & Severn IFCA
Cornwall IFCA
Isles of Scilly IFCA
North Western IFCA

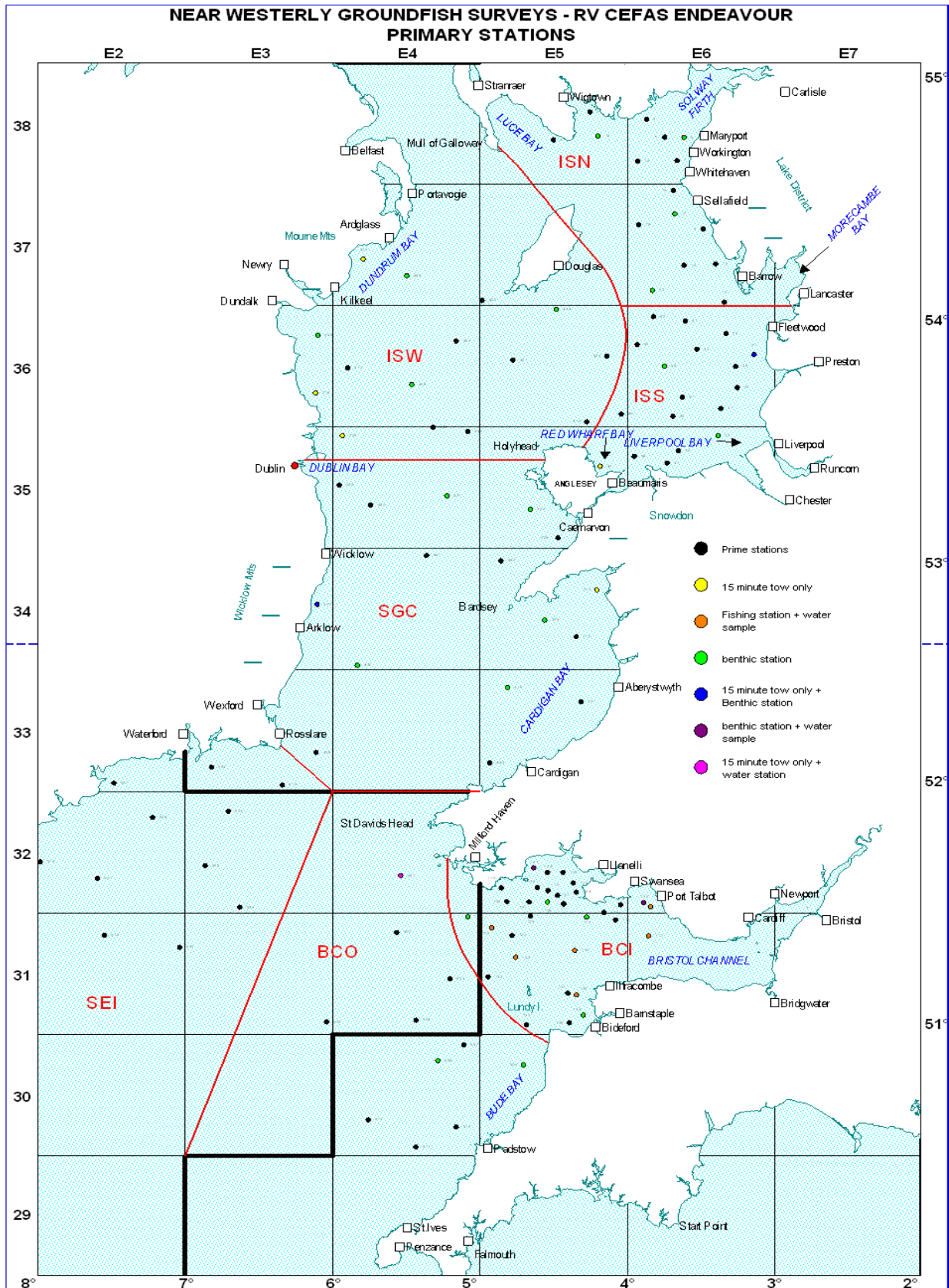


Figure 1 – Map of primary fishing positions.