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MFV Endeavour IV (BF515)

Survey 0317H

## **PROGRAMME**

12-25 April 2017

### **Ports**

**Loading:** Ullapool, 12 April 2017

**Unloading:** Ullapool, 25 April 2017

In setting the survey programme and specific objectives, etc the Scientist-in-Charge needs to be aware of the restrictions on working hours and the need to build in adequate rest days and rest breaks as set out in Marine Scotland's Working Time Policy (Lab Notice 34/03). In addition, the Scientist-in-Charge must formally review the risk assessments for the survey with staff on-board before work is commenced.

In the interest of efficient data management it is now mandatory to return the Survey Report, to I Gibb and the Survey Summary Report (old ROSCOP form) to M Geldart, within four weeks of a survey ending. In the case of the survey summary report a nil return is required, if appropriate.

### **Personnel**

R Kynoch (SIC)

E Barreto

J Drewery

J Dooley

**Project Code: RV1704 (20433) 13 days**

### **Gear**

- Jackson BT 195 monkfish bottom trawl
- 400mm x 45.7m Rockhopper ground gear with tickler chain
- Net sensors; standard Scanmar sensors, bottom contact sensor and depth / temperature logger (DST).

### **Objective**

1. To undertake a nationally co-ordinated demersal trawling survey of anglerfish on the Rockall Plateau.

### **Procedure**

This is an internationally co-ordinated trawl survey by Marine Scotland Science and Marine Institute, Ireland to estimate the abundance and distribution of anglerfish. The survey follows a set of protocols originally drawn up by an industry/science survey planning group made up of Marine Scotland scientists and fishing representatives. These protocols share much in common with the sampling regimes described in Marine Scotland's standing instructions for demersal trawl surveys.

The survey track and sampling locations (randomly selected) will be delivered to the skipper of Endeavour IV prior to departure and giving as much notice as possible. An approximate map of the sampling area giving the locations of all of the co-ordinated surveys is appended as Figure 1. The Endeavour IV will cover the Scotia Rockall and west areas.

Fishing gear will be delivered to Ullapool on 7 April and left on the pier to be ready for the vessel arriving evening 11 April. Staff will travel to Ullapool by minibus on 11 April and on arrival commence setting up all equipment prior to sailing at 12:00 hours on 12 April.

**Trawling:**

Fishing operations will take place over an 18 hours basis, with a six hour down time in every 24 hour period.

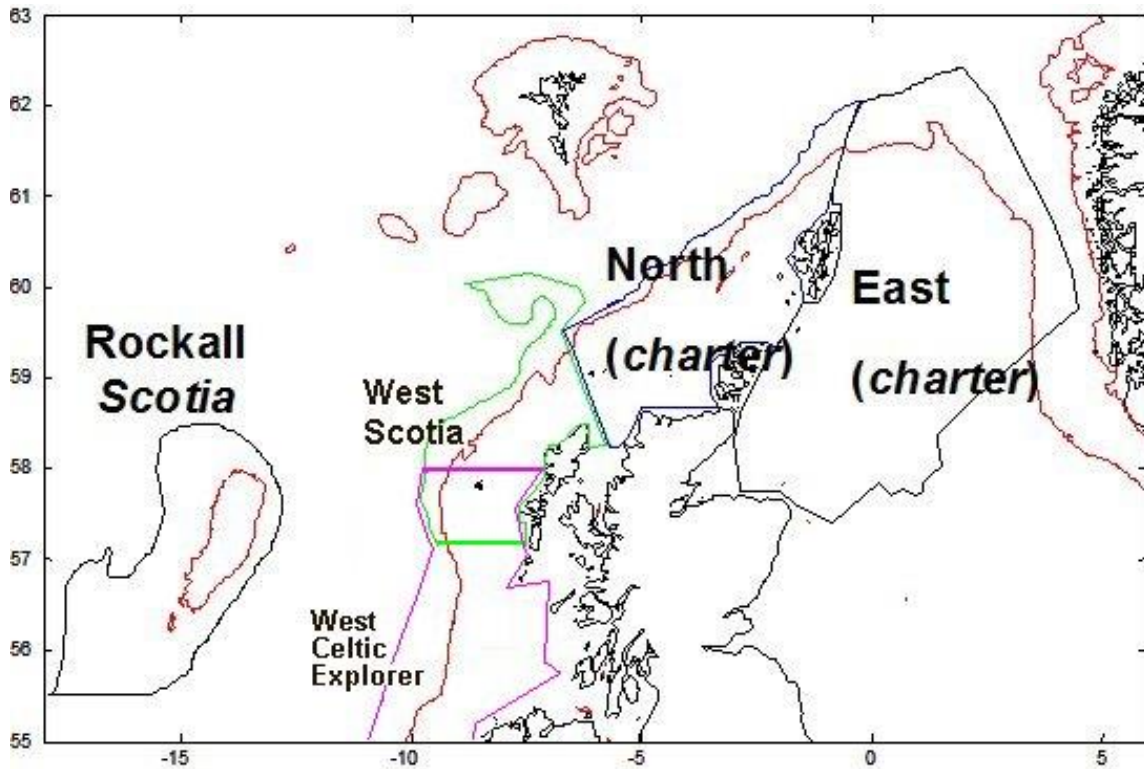
One haul of 60 minutes duration will be made at each sampling station; trawling operations will occur down to a maximum water depth of 1000 m. The Scanmar system will be used to monitor trawl parameters such as wing spread, door spread and headline height. A bottom contact sensor will be mounted on the footrope to record touch-down/lift-off at block up/knockout and if the ground gear leaves the seabed during the haul. A mini logger will be deployed on the trawl at each station to monitor depth and temperature.

Anglerfish and megrim catches will be worked up according to the protocols for this survey. Other target species such as haddock, cod and rays/skates will be sampled as and when available.

Normal contacts will be maintained with the Laboratory and the other vessels (charters and RV Celtic Explorer) on the survey will be contacted periodically. All scientific equipment and staff will be unloaded on 25 April at Ullapool and returned to Aberdeen.

Submitted:  
R Kynoch  
05 April 2017

Approved:  
I Gibb  
05 April 2017



**Figure 1: 0417S**

Map of the Northern Shelf of the North East Atlantic with the areas to be surveyed by the vessels (in italics) in the forthcoming anglerfish survey. (The red lines indicate the approximate position of the 200 m depth contour). Details of stations assigned to the Scotia Rockall and West areas will be conveyed to Endeavour skipper prior to sailing.