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MRV *Scotia*

Survey 1221S

## **PROGRAMME**

8-20 September 2021

### **Ports**

**Loading:** Aberdeen, 06 September 2021

**Unloading:** Ullapool, 20 September 2021

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 cruise 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.

### **Rockall Haddock Survey**

**Estimated Days per Project:** 13 days – RV2112/20667

### **Fishing Gear**

GOV Trawl (BT 137) with ground gear D

### **Other Gear**

RBR Concerto CTD

### **Objectives**

- To undertake the bottom trawl survey of haddock on Rockall Bank to a depth of 350 m.
- To deploy a CTD at selected trawl stations to collect temperature and salinity profiles.
- To record marine litter at each trawl station for MSFD

### **Procedure**

The primary objective of the survey is to assess the state of the haddock stock on the Rockall Plateau. The Rockall haddock surveys employs a semi random stratified survey design comprising four sampling strata separated according to depth. Sampling intensity within each of the four strata reflects the fish density observed in each of these during previous surveys. Trawling will be carried out during the hours of daylight at randomly selected locations within the 350 m contour. Forty primary tow positions have been generated and their allocation within each depth stratum is displayed in Figure 1. The number of stations within each depth strata is as follows: five stations at 0-150 m, 21 stations at 150-200 m, ten stations at 200-250 m and

five stations at 250-350 m. *Scotia* will undertake a haul within a five mile of each station where possible or, failing that, choose an alternative. A further 20 secondary stations across the various strata have been generated to provide a source of additional stations and/or alternatives should any primary station prove unfishable. Where time allows additional hauls will be conducted outside our strata (at depth range 350-500 m) and ten positions have been picked for this eventually. The survey does not intend undertaking trawls inside protected areas other than the Rockall Haddock Box (RHB). The relevant regulatory body in the case of RHB (NEAFC) has been informed in advance.

One haul of 30 minutes duration will be made at each sampling station. Daily start times for survey stations will be at approximately 06:00 hours and continue until approximately 20:00 hours. The Scanmar system will be used to monitor and record wing spread, door spread and distance covered during each haul. A bottom contact sensor will be mounted on the footrope to monitor seabed contact. Catches will be worked up according to the protocols for International Bottom Trawl Surveys.

A CTD will be deployed at selected trawl stations to collect environmental data covering the overall survey area.

Normal contacts will be maintained with the Laboratory.

Submitted:  
J Drewery  
21 August 2021.

Approved:  
I Gibb  
31 August 2021.

**Figure 1:** Pre-survey map showing sampling strata, the Haddock Box along with other protected areas and the nominal locations of all trawl stations generated for 1221S.

