

P17/15

Not to be cited without prior reference to Marine Scotland, Marine Laboratory, Aberdeen

FRV *Scotia*

Cruise 1109S

## **PROGRAMME**

9-31 August 2009

### **Ports**

**Loading** : Aberdeen, 5 August 2009  
**Half landing** : Stavanger, 21 August 2009 (provisional)  
**Unloading** : Aberdeen, 31 August 2009

In setting the cruise 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 Cruise Report, to I Gibb and the Cruise Summary Report (old ROSCOP form) to D Lichtman, within four weeks of a cruise ending. In the case of the Cruise Summary Report a nil return is required, if appropriate.

### **Personnel**

I Penny (SIC)  
K A Coull  
M Mathewson  
K Summerbell  
L Ritchie  
L Richardson  
A Miller (Christian-Albrechts Universitaet Kiel)  
S Helyar (Bangor University)

**Project:** RV0909 (23 days)

### **Fishing Gear**

GOV Trawl (BT 137) with ground gear A & B

### **Objectives**

1. To undertake internationally co-ordinated demersal trawling of the North Sea.

2. Obtain temperature and salinity profiles at each trawling station.
3. Obtain (20\*25 litres) low nutrient seawater from statistical rectangle 45F1.

### **Trawling**

One haul of 30 minutes duration will be made in each statistical rectangle shown on the attached chart. Daily start times should take into account the request from WGIBTS to vary the shooting time for the first haul of the day. The Scanmar system will be used to monitor headline height, wingspread, door spread and distance covered during each haul. A bottom contact sensor (BCS) will be attached to the ground-gear and the data collected will be downloaded after each haul.

Fish will be worked up according to standing instructions with additional biological data collected for species as determined in EU Data Regulation 1639/2001 and 1581/2004.

### **Hydrography**

Surface and bottom temperatures, salinities, nitrates, silicates and phosphates will be taken at all trawl stations. The ships thermosalinigraph will be run continuously throughout the cruise.

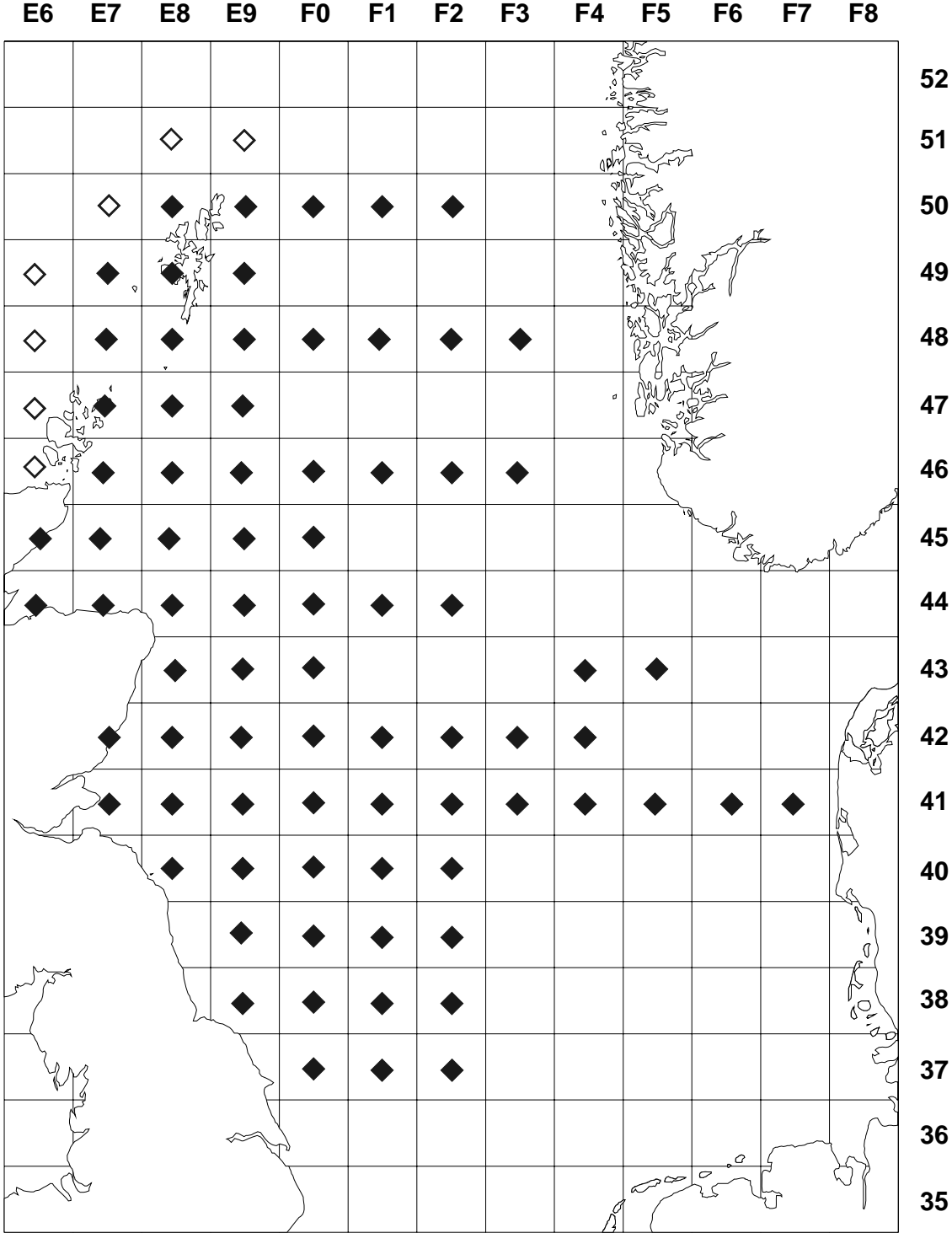
### **General**

Normal contacts will be maintained with the Laboratory. Information gathered by the participating vessels will be exchanged by fax.

Submitted:  
I Penny  
17 June 2009

Approved:  
I Gibb  
25 June 2009

Quarter 3 Groundfish Survey  
 9 August – 31 August 2009



- ◆ Standard Trawl Stations
- ◇ New Trawl Stations 2009

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**PROGRAMME AMENDMENT**

The following personnel changes will take place:

K Summerbell – part 1 only.

S Helyar – part 1 only

D O'Sullivan – part 2 only

A Miller will not be joining the vessel.

I Gibb

7 August 2009