

Not to be cited without prior reference to the FRS Marine Laboratory, Aberdeen

FRV Scotia

Cruise 0208S

## PROGRAMME

1-23 February 2008

### Ports

**Loading** : Aberdeen, 30 January 2008  
**Half landing** : Lerwick, 13 February 2008 (provisional)  
**Unloading** : Aberdeen, 23 February 2008

**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 FRS' Working Time Policy (Lab Notice 34/03)**

### Personnel

K A Coull (In charge)  
C G Davis  
M Mathewson  
K Summerbell (Part II)  
R Watret  
J Mair (Part I)  
R Catarino  
L Ritchie  
L McPherson (Visitor – University of Aberdeen)  
K Preedy (Visitor – University of Strathclyde)

### Fishing Gear

GOV Trawl (BT 137) with ground gear A & B  
Methot Net (Round Frame with IK depressor)

### Objective

To participate in the International Bottom Trawling Survey of the North Sea.

### Trawling

Hauls of 30 minutes duration will be made using the GOV trawl. Wherever possible, fishing will be carried out during daylight hours as defined below:

Date	Daylight period – GMT at Greenwich	
	South of 57 30'N	North of 57 30'N
1-10 February	0729 - 1658	0749 – 1636
11-20 February	0708 – 1720	0723 – 1705
21-23 February	0647 - 1741	0655 - 1730

For each degree of longitude west, four minutes will be added to the time; for each degree of longitude east, four minutes will be subtracted.

The survey area is outlined in the attached chart but the exact fishing position will be decided in collaboration with the fishing master. The Scanmar system will be used throughout the cruise to monitor headline height, wing spread, 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.

### **Methot Net Sampling**

Pre-metamorphosis herring larvae will be sampled during the hours of darkness with the Methot mid-water trawl (Round frame). Two double oblique tows will be made in every square within the assigned survey area. The vertical profile of the tow will be monitored using the Scanmar system.

### **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.

J A Morrison  
11 January 2008

### **PROGRAMME AMENDMENT**

Mr Ciran Cronin (Cork Ecology) will now be joining the above cruise.

*J A Morrison*  
29 January 2008

### Scotia IBTS - Quarter 1 Survey - Stations

