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

FRV *Scotia*

Cruise 1104S

PROGRAMME

26 July – 21 August 2004

Ports

Loading: Aberdeen, 23 July

Half landing: Stavanger, 6/7 August (provisional)

Port Visit: Peterhead, 14 August

Unloading: Aberdeen, 21 August

***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 (which is published on the Intranet). In addition, the Scientist-in-Charge must formally review the risk assessments for the cruise with staff on-board before work is commenced.**

Personnel

K A Coull	(In Charge)
M Mathewson	
J Mills	(23 Jul – 14 Aug)
I Penny	
A Tait	
J Drewery	(14 Aug – 21 Aug)
C Allan	(Part I)
M Gault	(Part II)
M R Robertson	
L Robinson	
H Fraser	
N Jacob	
G Stowasser	

Fishing Gear: GOV Trawl BT 137

Objectives

1. To undertake an internationally co-ordinated demersal trawling survey of the North Sea.
2. Obtain temperature and salinity profiles at each trawling station.
3. Carry out benthic sampling along the track of as many trawl stations as possible.
4. Obtain (20 * 25 litres) low nutrient seawater from statistical rectangle 45F1 (or an adjacent rectangle).

Procedures

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 IBTS Working Group to vary the shooting time for the first haul of the day. The Scanmar system will be used to monitor headline height, wing spread, door spread and distance covered during each haul. Catches will be worked up according to standing instructions.

Hydrography

A CTD will be deployed at each trawling station. The ships thermosalinigraph will be operated throughout the cruise.

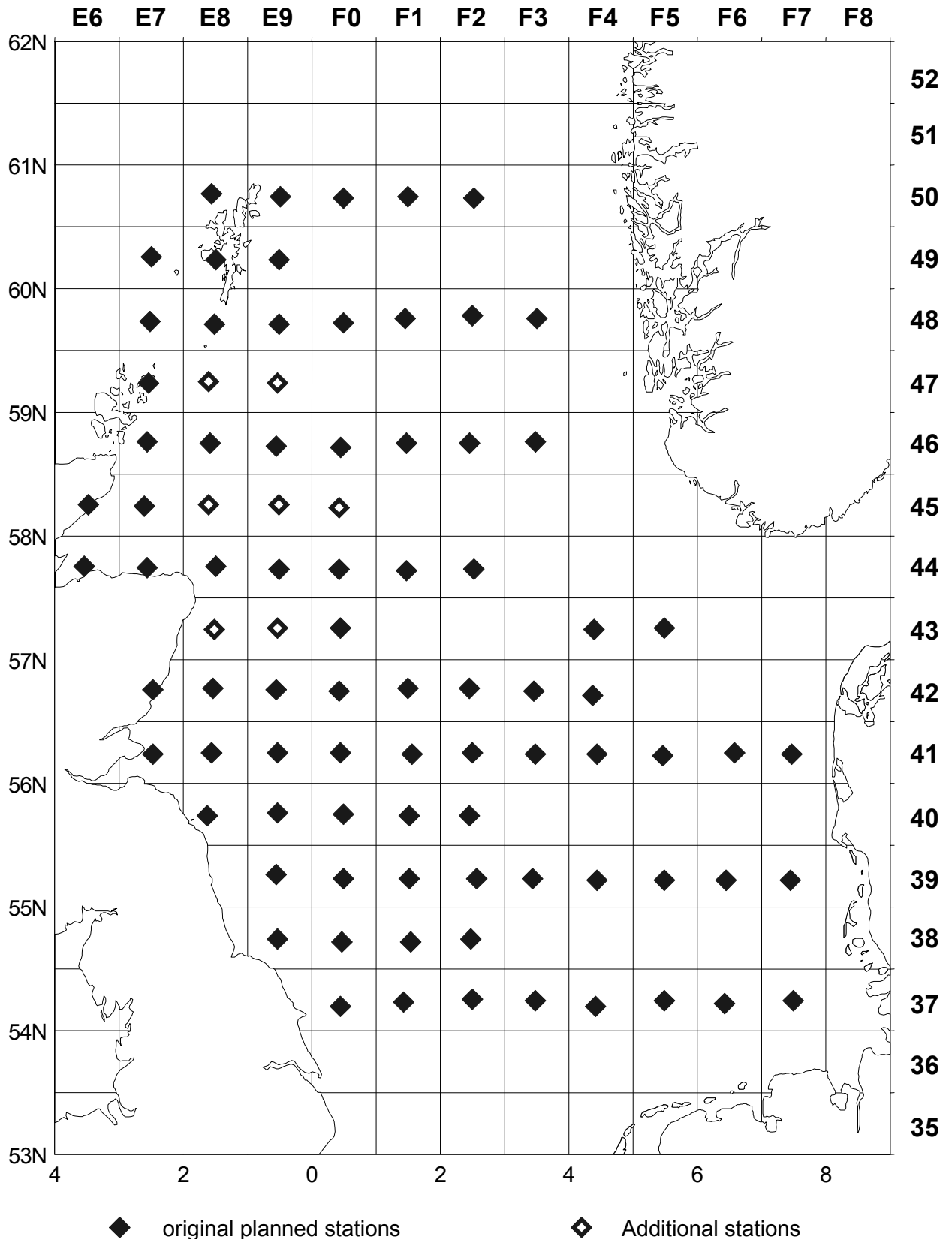
Benthic Sampling

Benthic sampling will be carried out during the night. At several locations along the track of the trawling stations, sampling will be carried out using the van Veen grab and the Usnel box corer. The two-metre beam trawl will be deployed along the track of the trawling stations.

Normal contacts will be maintained with the Laboratory.

J A Morrison
5 July 2004

Quarter 3 Groundfish Survey Scotia



Circulation List: Cruise Programmes and Reports

SCOTIA VESSEL

Programmes - Mr J A Morrison for approval. Reports - Mr J A Morrison for approval.

Issue two copies of Record of Haul and Station Numbers pro-forma with Scientist-in-Charge's copy of *Scotia* and *Clupea* programmes.

Two xerox copies of track chart for reports to be sent to Dr L Rickards.

PROGRAMMES ONLY

Lab staff

Mr J T M Hunter
Mr T Reid
Mr P J Copland
Mr J Dunn
Mr A Beaton
Mr G Howard
Security

Non-lab staff

Island Cmdr Faroes (Faroes only)
Flag Officer, Denmark (Danish part of N Sea only)
Coastguard
G Lees

PROGRAMMES AND REPORTS

Lab staff

Mr J A Morrison
Capt R Denholm
Mr R S T Ferro) Fish Man team
Mr C Hall) progs only
Dr R M Stagg
Dr C Moffat
Mr M R Heath
Mr A Macdonald
D Lichtman (+ additional copy of track chart
of reports only)
Mrs E Morrison
CO/OIC of Vessel (*Scotia*) (to be faxed)
Library (2)
File

Non-lab staff

Library, Danmarks Fisk (reports only)
Mr J Mortensen (Faroes only)
Mr A Souplet (Fishing Cruises only)
Dr S Ehrich (Entering German Waters) (reports only)

W J McCurdy, Belfast
Technical Director, SFIA (J E Tumilty)
Dr L Rickards
Dr I Joint
Director – Havfor Inst, Norway
Dr S Ehrich
Monsieur le Chef du dépt, Nantes
Mr J C Brabant
Mrs van Duyvenvoorde
Dr J G Gordon
G Kane
R de Clerck
Mr B Stewart
Capt J Cannan (*Scotia* and *Clupea* only)
Controller Coastal Ops - A Stewart
Dr P Grieg-Smith
Mr H C Boyar
Dr R J A Atkinson
Mr H i Jákupsstovu
Mr C Bullimore (To be faxed: 01923 846392)

Laboratory Personnel on Vessel

K A Coull
M Mathewson
J Mills
I Penny
A Tait
J Drewery
C Allan
M Gault
M R Robertson
L Robinson
H Fraser
N Jacob
G Stowasser

Fishery Officers at