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

FRV *Scotia*

Cruise 1204S

PROGRAMME

25 August – 7 September 2004

***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 J Peach	(In charge)
D Beare	
H Dobby	
E Jones	
O Goudie	
R Campbell	
A Weetman	
C Shand	
R Kuchta	Student
I Fiala	Student
T Blasdale	JNCC
L Sandemann	Student

Project

RV0409/110324

Gear

Deep water trawl (BT184)

Objectives

1. To map the composition, distribution and abundance of shelf edge and slope species, including anglerfish and megrim.

2. To record temperature at depth using mini-logger data storage sensors.

3. To investigate the occurrence of *Nephrops* on the upper shelf slope using the TV sledge and drop frame systems.

Area

West of the Outer Hebrides. From the edge of the continental shelf down to approximately 1,500 metres.

Procedure

The vessel will proceed to fishing grounds to the west of Scotland (see attached chart). Trawling will be carried out along discrete depth contours between the 200 and 1,500 isobaths, to investigate changes in abundance and species assemblage. During the hours of darkness the vessel will operate over shallower depths (200-900 metres) and deploy the TV sledge and drop frame systems to investigate the abundance of *Nephrops* on the upper slope.

J A Morrison
28 July 2004

Scotia Deep Water Survey 2004 Trawl Station Co-ordinates

Station Number	Shooting Latitude	Shooting Longitude	Hauling Latitude	Hauling Longitude	Historic Haul No.
45	60 00.15N	5 10.70W	59 56.30N	5 23.05W	S00/129
40	59 57.69N	8 06.01W	59 59.72N	8 20.82W	S97/436
41	59 39.56N	7 58.03W	59 37.56N	7 45.11W	S97/442
42	59 24.52N	6 46.56W	59 18.97N	7 02.70W	S00/130
43	59 23.57N	7 04.24W	59 18.21N	7 22.72W	S00/131
44	59 13.26N	7 38.23W	59 01.66N	7 45.51W	S00/132
36	58 51.88N	7 58.64W	58 55.68N	7 48.74W	S00/416
2	58 43.22N	8 14.62W	58 44.13N	8 08.93W	S00/382
33	58 42.20N	8 55.16W	58 45.65N	8 43.16W	S00/413
34	58 41.97N	8 32.31W	58 39.29N	8 43.05W	S00/414
6	58 24.98N	9 39.27W	58 18.75N	9 42.56W	S00/386
4	58 18.54N	9 29.79W	58 13.15N	9 35.53W	S00/384
5	58 17.78N	9 38.92W	58 23.55N	9 32.97W	S00/385
46	58 04.35N	9 41.81W	57 47.78N	9 43.86W	S00/146
7	57 50.94N	9 28.24W	57 43.65N	9 28.36W	S00/387
10	57 42.76N	9 50.46W	57 36.59N	9 52.59W	S00/390
8	57 41.65N	9 37.56W	57 34.68N	9 35.26W	S00/388
11	57 19.07N	9 25.15W	57 12.24N	9 20.32W	S00/391
13	57 18.44N	9 37.89W	57 24.37N	9 44.36W	S00/393
12	57 16.37N	9 29.85W	57 22.42N	9 34.65W	S00/392
29	57 10.65N	9 21.49W	57 04.02N	9 16.83W	S00/409
26	56 50.26N	9 20.17W	56 43.04N	9 23.48W	S00/406
27	56 45.46N	9 09.01W	56 52.95N	9 11.18W	S00/407
25	56 42.80N	9 02.23W	56 48.75N	9 04.80W	S00/405
21	56 20.22N	9 09.13W	56 13.69N	9 12.15W	S00/401
23	56 14.66N	9 22.05W	56 09.05N	9 23.39W	S00/403
22	56 09.38N	9 19.07W	56 15.24N	9 16.36W	S00/402
24	56 07.16N	9 35.31W	56 13.21N	9 38.19W	S00/427
19	55 57.58N	9 19.77W	55 50.78N	9 22.91W	S00/399
18	55 57.26N	9 16.68W	55 50.75N	9 18.43W	S00/398
20	55 57.06N	9 24.01W	55 50.87N	9 27.36W	S00/400
17	55 14.20N	10 03.61W	55 10.20N	10 05.40W	S00/397
14	55 12.09N	10 02.74W	55 05.77N	10 05.71W	S00/394
16	55 11.07N	10 11.80W	55 05.56N	10 16.40W	S00/396
15	55 08.63N	10 10.07W	55 14.67N	10 07.61W	S00/395

Shooting and hauling positions to be used as a guideline only, haul duration and consequently distance towed to be decided during the survey.

Scotia Deepwater Survey 2004 Trawl Positions