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FRV *Scotia*

Cruise 1211S

PROGRAMME

5-13 October 2011

Loading: Aberdeen, 2 October

Unloading: Aberdeen, 13 October

In setting the 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 survey 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.

Personnel

G Slesser (SIC)

M Geldart

D Lee

J Wright

R O'Hara Murray

J Turriff

C Hall

Out-turn days per project: 9 days: ST03P

Gear

Sea-Bird CTDs, ADCP instrumentation, mooring equipment, recovery trawl.

Objectives

1. Perform hydrographic surveys along the JONSIS standard section in the northern North Sea.
2. Perform hydrographic surveys along the standard Faroe Shetland Channel sections.
3. Take samples for long term storage at Fair Isle – Munken stations FIM-01 and FIM-06.
4. Service four ADCP moorings in the Faroe Shetland Channel.
5. Perform CTD surveys across the Fair Isle channel and along the Shelf Edge as time allows.

Procedure

On sailing from Aberdeen the *Scotia* will sail to a suitable position to carry out trial CTD deployments before proceeding to the start of the east end of the JONSIS section for sampling work using the CTD/carousel water sampler. Following this work *Scotia* will make way to the Faroe-Shetland Channel to commence CTD/water sampling along the Faroe - Cape Wrath section. On completion of the Faroe - Cape Wrath section the Fair Isle – Munken section will also be sampled using the CTD/carousel water sampler. Depending on the time available at this stage either recovering and redeploying the four ADCP moorings (NWSD - 60° 26.99'N 004° 22.49'W, NWSE - 60° 16.50'N 004° 19.97'W, NWSF - 60° 12.00'N 004° 00.05'W, NWSG - 60° 30.50'N 004° 33.99'W) in the Faroe-Shetland Channel or the Nolso – Flugga, Fair Isle or shelf edge sections will be sampled. The ADCP instruments that are recovered will have the data downloaded, moorings refurbished and the moorings redeployed. Moorings NWSF and NWSG will be redeployed at new locations and will be known as NWZE (59° 54.30'N 006° 10.00'W) and NWZF (59° 42.30'N 006° 10.00'W) respectively.

The thermosalinograph will be run throughout the cruise.

(NOTE: The survey will take *Scotia* into the Foinaven Development Area. This is now standard practice, and normal on-site communications will be established with the Foinaven co-ordinating officer).

Normal contacts will be maintained with the laboratory.

Submitted:
G Slesser
27 September 2011

Approved:
I Gibb
28 September 2011.

JONSIS Line

	Name	Latitude	Longitude	Depth	Spacing
01	JO 1	59° 17.00' N	02° 14.00' W	75 m	
02	JO 1A	59° 17.00' N	02° 05.00' W	90 m	8.5 km
03	JO 2	59° 17.00' N	01° 56.00' W	100 m	8.5 km
04	JO 3	59° 17.00' N	01° 48.00' W	80 m	7.6 km
05	JO 4	59° 17.00' N	01° 40.00' W	90 m	7.6 km
06	JO 5	59° 17.00' N	01° 30.00' W	95 m	9.5 km
07	JO 6	59° 17.00' N	01° 20.00' W	110 m	9.5 km
08	JO 6A	59° 17.00' N	01° 10.00' W	120 m	9.5 km
09	JO 7	59° 17.00' N	01° 00.00' W	125 m	9.5 km
10	JO 8	59° 17.00' N	00° 40.00' W	120 m	18.9 km
11	JO 9	59° 17.00' N	00° 20.00' W	140 m	18.9 km
12	JO10	59° 17.00' N	00° 00.00' W	135 m	18.9 km
Totals				1180 m	126.9 km

Fair Isle - Munken (Ammended for presence of Foinaven oil platform)

	Name	Latitude	Longitude	Depth	Spacing
01	FIM-01	60° 10.00' N	03° 44.00' W	150 m	
02	SEFOS	60° 13.00' N	03° 51.50' W	170 m	8.9 km
03	FIM-02	60° 16.00' N	03° 59.00' W	200 m	8.9 km
04	SEFOS	60° 18.00' N	04° 04.50' W	330 m	6.3 km
05	<i>FIM-03</i>	<i>60° 20.25' N</i>	<i>04° 09.00' W</i>	<i>390 m</i>	<i>6.3 km</i>
06	FIM-04	60° 25.00' N	04° 19.00' W	655 m	12.4 km
07	FIM-05	60° 29.00' N	04° 26.00' W	995 m	9.8 km
08	FIM-06	60° 35.00' N	04° 45.00' W	1090 m	20.6 km
09	FIM-6a	60° 38.00' N	04° 54.00' W	1030 m	9.9 km
10	FIM-07	60° 43.00' N	05° 06.00' W	915 m	14.3 km
11	FIM-08	60° 47.00' N	05° 16.00' W	830 m	11.7 km
12	FIM-09	60° 51.00' N	05° 29.00' W	600 m	13.9 km
13	FIM-10	61° 02.00' N	05° 57.00' W	280 m	32.4 km
14	FIM-11	61° 12.00' N	06° 22.00' W	240 m	
Totals				7,585 m	155.4 km

Nolso-Flugga

	Name	Latitude	Longitude	Depth	Spacing
01	NOL-01	60° 56.00' N	01° 00.00' W	110 m	
02	SEFOS	60° 58.70' N	01° 17.70' W	125 m	16.7 km
03	SEFOS	61° 01.40' N	01° 35.40' W	155 m	16.7 km
04	NOL-02	61° 04.00' N	01° 53.00' W	270 m	16.7 km
05	SEFOS	61° 06.00' N	02° 01.50' W	440 m	8.5 km
06	NOL-03	61° 08.00' N	02° 10.00' W	550 m	8.5 km
07	SEFOS	61° 09.30' N	02° 17.50' W	630 m	7.1 km
08	NOL-3a	61° 11.00' N	02° 25.00' W	730 m	7.4 km
09	NOL-04	61° 14.00' N	02° 40.00' W	1080 m	14.5 km
10	NOL-05	61° 21.00' N	03° 10.00' W	1370 m	29.6 km
11	NOL-06	61° 28.00' N	03° 42.00' W	1235 m	31.2 km
12	NOL-07	61° 35.00' N	04° 15.00' W	990 m	31.9 km
13	NOL-08	61° 42.00' N	04° 51.00' W	235 m	34.2 km
14	NOL-09	61° 49.00' N	05° 21.00' W	180 m	29.3 km
15	NOL-10	61° 54.00' N	05° 45.00' W	290 m	22.9 km
16	NOL-11	62° 00.00' N	06° 12.00' W	125 m	26.0 km
Totals				8250 m	301.2 km

Faroe – Cape Wrath

	Name	Latitude	Longitude	Depth	Spacing
01	FW-01	59° 21.62' N	05° 26.14' W	115 m	
02	FW-02	59° 31.87' N	05° 35.40' W	105 m	11.27 nm
03	FW-03	59° 40.67' N	05° 37.94' W	136 m	8.88 nm
04	FW-04	59° 46.48' N	05° 41.54' W	485 m	6.08 nm
05	FW-05	59° 52.18' N	05° 44.35' W	720 m	5.87 nm
06	FW-06	59° 57.88' N	05° 48.14' W	999 m	6.00 nm
07	FW-07	60° 05.08' N	05° 52.75' W	1075 m	7.55 nm
08	FW-08	60° 13.09' N	05° 57.35' W	1058 m	8.32 nm
09	FW-09	60° 18.49' N	06° 00.35' W	590 m	5.59 nm
10	FW-10	60° 23.89' N	06° 03.95' W	426 m	5.68 nm
11	FW-11	60° 37.09' N	06° 11.96' W	320 m	13.76 nm
12	FW-12	60° 53.50' N	06° 21.76' W	141 m	17.07 nm
13	FW-13	61° 08.51' N	06° 30.76' W	135 m	15.61 nm
Totals				7,875 m	111.68 nm