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MRV *Scotia*

Survey 0512S

PROGRAMME

7-22 May 2012

Loading: Aberdeen, 5 May 2012

Unloading: Aberdeen, 22 May 2012

In setting the survey 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 (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)
J Dunn	
A Gallego	8-22 May
M Geldart	
D Lee	
A Taylor	
J Wright	8-22 May
P Walsham	7-8 May

Out-turn days per project: 16 days: ST03P

Gear

Sea-Bird CTDs, ADCP and current meter instrumentation, water level recorders, temperature mini-loggers, mooring equipment, recovery trawl.

Objectives

1. Deploy a current meter mooring off Stonehaven near the inner Long Term Monitoring position.
2. Perform hydrographic surveys along the JONSIS long term monitoring section in the northern North Sea.
3. Perform hydrographic surveys along the long term monitoring Faroe-Shetland Channel sections.
4. Take samples for long term storage at Fair Isle – Munken stations FIM-01 and FIM-06.

5. Service four ADCP moorings in the Faroe-Shetland Channel.
6. Perform CTD surveys at ADCP positions, across the Fair Isle Channel and across the Shelf Edge as time allows.
7. Test and initiate the PCO2 system

Procedure

On sailing from Aberdeen (7 May) *Scotia* will sail to Stonehaven to deploy an oceanographic instrumented mooring (56° 57.18'N 002° 07.98'W). Once this mooring work has been completed a suitable position will be selected to carry out trial CTD deployments before proceeding to Leith. On route to Leith testing the PCO2 system will take place. *Scotia* will remain in Leith until dignitaries attending the World Fisheries Congress have visited the vessel.

Once the visit is complete the vessels scientific containers will be loaded and scientific equipment set up. Marine Scotland staff not involved in the Stonehaven mooring work will join the vessel late Tuesday afternoon (8 May) and one member of staff will return to Aberdeen. *Scotia* will then set sail for the start of sampling the JONSIS long term monitoring section with the CTD and carousel water sampler. Following this work *Scotia* will make way to the Faroe-Shetland Channel to commence mooring operations. One ADCP mooring, NWSE (60° 16.52'N 004° 19.98'W) will be recovered, data downloaded from the recovered instrument, mooring refurbished and the mooring redeployed. Two ADCP moorings, NWZE and NWZF (59° 54.36'N 006° 10.02'W, 59° 42.30'N 006° 09.94'W) will be recovered, data downloaded from the recovered instruments and moorings refurbished. These moorings will be redeployed, at positions NWSD and NWSF (60° 27.00'N 004° 22.50'W, 60 12.00'N 004 10.00'W). On completion of this mooring work passage will be made to commence sampling the Fair Isle-Munken, Cape Wrath-Munken and Nolso-Flugga long term monitoring sections using the CTD and carousel water sampler. On completion the remaining time will be spent carrying out CTD sampling at the ADCP mooring positions, across the shelf edge or the Fair Isle section before returning to Aberdeen.

The thermosalinograph will be run throughout the survey.

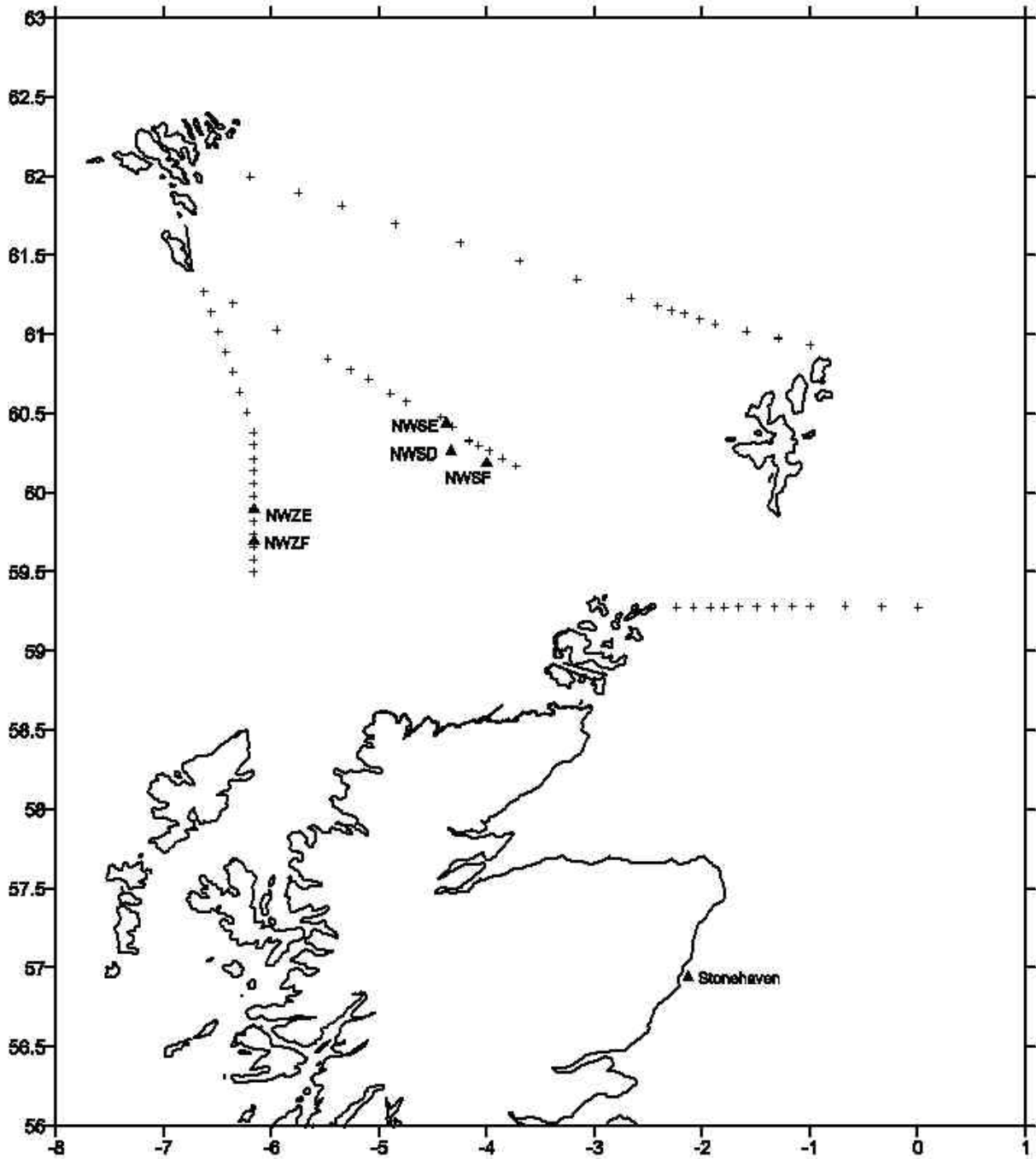
(NOTE: The survey will take *Scotia* into the Foinaven Development Area. This is now standard practice, and normal on-site communications will be established with the Foinaven co-ordinating officer).

Normal contacts will be maintained with the laboratory.

Submitted:
G Slesser
23 April 2012

Approved:
I Gibb
30 April 2012

CTD Long Term Monitoring Station and Oceanographic Mooring Positions



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° 5.00' 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° 0.00' 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° 0.00' 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				7,585.0 0	155.40

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	301.20 km

Faroe – Cape Wrath

	Name	Latitude	Longitude	Depth	Spacing
01	FWZ-19	59° 30.00' N	06° 10.00' W	152 m	
02	FWZ-18	59° 34.82' N	06° 10.00' W	196 m	4.81 nm
03	FWZ-17	59° 39.64' N	06° 10.00' W	220 m	4.81 nm
04	FWZ-16	59° 44.45' N	06° 10.00' W	277 m	4.80 nm
05	FWZ-15	59° 49.27' N	06° 10.00' W	457 m	4.81nm
06	FWZ-14	59° 54.09' N	06° 10.00' W	600 m	4.81 nm
07	FWZ-13	59° 58.91' N	06° 10.00' W	970 m	4.81 nm
08	FWZ-12	60° 03.73' N	06° 10.00' W	1082 m	4.81 nm
09	FWZ-11	60° 08.54' N	06° 10.00' W	1195 m	4.80 nm
10	FWZ-10	60° 12.76' N	06° 10.00' W	1212 m	4.21 nm
11	FWZ-09	60° 18.18' N	06° 10.00' W	616 m	5.41 nm
12	FWZ-08	60° 23.00' N	06° 10.00' W	423 m	4.81 nm
13	FWZ-07	60° 30.63' N	06° 13.88' W	302 m	7.86 nm
14	FWZ-06	60° 38.26' N	06° 17.77' W	275 m	7.86 nm
15	FWZ-05	60° 45.89' N	06° 21.69' W	184 m	7.86 nm
16	FWZ-04	60° 53.52' N	06° 25.65' W	138 m	7.86 nm
17	FWZ-03	61° 01.14' N	06° 29.63' W	142 m	7.85 nm
18	FWZ-02	61° 08.76' N	06° 33.65' W	125 m	7.85 nm
19	FWZ-01	61° 16.38' N	06° 37.70' W	100 m	7.86 nm
Totals				m	107.12 nm