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

FRV *Scotia*

Cruise 1404S

PROGRAMME

4–18 October 2004

Loading: Aberdeen

Unloading: Aberdeen

Personnel

G Slesser	In Charge
S Hughes	
M Rose	
J Beaton	
D Lichtman	
E Koutsoubos	University of Oulu
S Mendez	University of Aberdeen
C Embling	University of St. Andrews
C Shepherd	Hydrographic Office

Gear

Sea-Bird CTD's, ADCP Moorings, Towed Hydrophone, Sonobuoys, Thermosalinograph

Objectives

1. To perform hydrographic surveys along the JONSIS standard section in the northern North Sea.
2. To perform hydrographic surveys along the standard Faroe Shetland Channel sections.
3. To service two ADCP moorings in the Faroe Shetland Channel.
4. To recover two current meter moorings south of the Wyville – Thomson Ridge.
5. To deploy a current meter mooring west of the Shetland Islands.
6. To deploy two current meter moorings east of the Shetland Islands.
7. To carry out coastal hydrographic surveys.
8. To perform ad-hoc towed array acoustic recordings for cetaceans and deployment of sonobuoys.

Procedure

On sailing from Aberdeen the *Scotia* will carry out a trial CTD deployment. Thereafter, coastal hydrographic stations and the JONSIS standard section will be surveyed using the CTD/rosette package.

The *Scotia* will then sail to Shetland where three current meter moorings (60°30.0'N 000°41.00'W, 60°30.00'N 000°00.00'W, 60°42.18'N 001°24.90'W) will be deployed. Prior to the deployment of each mooring hydrographic stations will be worked.

The *Scotia* will then proceed with hydrographic survey work in the Faroe-Shetland Channel and Wyville-Thomson Ridge areas. The two standard lines, the Fair Isle - Munken and the Nolso-Flugga sections will be worked. The two NWOCE ADCP moorings, NWSD (60°26.93'N 004°22.13'W) or NWSE (60°16.87'N 004°19.51'W) will be recovered, serviced and re-deployed and the two MOEN current meter moorings south of the Wyville-Thomson Ridge will be recovered (60°14.74'N 008°59.65'W, 60°16.24'N 009°00.80'W).

Following this, coastal hydrographic sections in the Minch, north of Scotland and the Moray Firth will be carried out as time allows.

Through out the cruise, a towed hydrophone will be deployed on passage and between stations.

(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.

J A Morrison
3 September 2004