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

FRV *Clupea*

Cruise 0707C

PROGRAMME

21-29 May 2007

Ports

Loading: Fraserburgh

Unloading: Fraserburgh

***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.**

In the interest of efficient data management it is now mandatory to return the Cruise Report, to John Morrison and the Cruise Summary Report (old ROSCOP form) to Dougal Lichtman, within four weeks of a cruise ending. In the case of the Cruise Summary Report a nil return is required, if appropriate.

Personnel

Barry O'Neill	(21 May – 26/27 May)
Keith Summerbell	(21 May – 26/27 May)
Alistair McIntosh	(21 May – 26/27 May)
Lynnete Ritchie	(21 May – 26/27 May)
Jim Hunter	(21 May – 29 May)
Colin Stewart	(21 May – 29 May)

Gear

Modified TV sledge
Scanmar depth unit
LISST 100X
Flowmeter
Load cells
Acoustic releases
Sledge blades, ground gear elements, modified trawl door and weights
Day grab (including table)
Self recording cameras and pods

Objectives

- To collect samples of the sediment plumes behind objects towed over the sea bed using a towed sledge.
- To test the high resolution load cell data logger.

Procedure

The Clupea will leave Fraserburgh on 21 May and steam towards Buckie. Operations will take place over the following few days in inshore waters between Portsoy and Nairn.

The sediment plumes will be sampled (i) by water samplers, (ii) by small plankton nets and (iii) using a LISST 100X, all of which will be mounted on a modified TV sledge. The opening/closing of the plankton nets and the closing of the water samplers will be triggered by acoustic releases and recorded using a self-recording camera.

The sediment plume samples will be filtered, sub-sampled and stored on board the Clupea. Analysis of the suspended solids, particle size and nutrients will take place on return to the Laboratory.

Throughout the trials a high resolution load cell logger will also be tested. Sediment samples will be taken using the day grab. The vessel will return to Fraserburgh on the 26 May and four of the scientific personnel will disembark on either the evening of the 26 or the morning of 27 May (date to be confirmed).

The final two days of the trip will be dedicated to engineering trials with the high resolution load cell logger. The cruise will finish on 29 May at Fraserburgh.

Normal contact will be maintained with the Laboratory.

J A Morrison
8 May 2007