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

FRV Clupea

Cruise 1607C

PROGRAMME

20-26 November 2007

Ports

Loading: Fraserburgh Unloading: Fraserburgh

Personnel

Matt Gubbins (20-23 November) Barry O'Neill (23-26 November)

Keith Summerbell

Bob Milne

Gear

Modified TV sledge
LISST 100X
Flowmeter
Acoustic releases
Ground gear elements, modified trawl door and weights
Day grab (including table)
Sholkovitz corer

Objectives

• To determine the extent to which phytoplankton cysts and copepod eggs are resuspended in the sediment plumes behind objects towed over the sea bed.

Procedure

The Clupea will leave Fraserburgh on 20 November 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 pup nets, (ii) by 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.

The presence of phytoplankton cysts and copepod eggs will be determined on return to the Laboratory.

Sediment samples will be taken using the day grab and/or the corer.

Barry O'Neill will replace Matt Gubbins at Buckie on 23 November and the cruise will finish in Fraserburgh on 26 November.

Normal contact will be maintained with the Laboratory.

J A Morrison 13 November 2007