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FRV *Clupea*

Cruise 1607C

REPORT

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.

Out-turn Days: 7 days, MF0759

Narrative

The *Clupea* left Fraserburgh on 20 November and steam towards Burghead. That afternoon and the following day the sledge was towed on muddy ground with the door or one of the groundgear elements attached and sediment plumes sampled using the pup nets and the LISST 100X. Sediment samples were also taken by the Sholkovitz corer and/or the day grab.

Due to very poor weather conditions the *Clupea* headed to Invergordon and was alongside during 22 November.

Over the following few days similar series of trials took place in sandy-muddy ground in Nairn Bay and sandy ground off Golspie.

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

The Clupea returned to Fraserburgh on the evening of the 25 November and staff, equipment and samples returned to Aberdeen the following morning.

Matt Gubbins/Barry O'Neill
23 January 2008