

R1/6

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

FRV *Clupea*

Cruise 1897C

REPORT

24 October - 4 November 1997

Loading: Ardrossan

Unloading: Fraserburgh

Personnel

J M Pirie	SSO (in charge)
A D McIntosh	HSO
F Robertson	Visitor (Glasgow Caledonian University)

Objectives

To undertake fish and sediment sampling for the Clyde Trend, Garroch Head Check and Biomarker monitoring studies. Sampling will be mainly in the Clyde with two external control sites at Colonsay and Broad Bay.

Out-turn days per project: BGA1-4.0; BGG1-4.0; BEA1-4.0

Narrative

Scientific equipment was loaded and secured on 24 October. Sampling by trawl for fish at Garroch Head commenced at 0800 hours on 25 October. Over the next six days trawling was undertaken at Hunterston, Skelmorlie, mouth of Holy Loch, Irvine Bay and Pladda. Multiple trawls at these sites were required to obtain sufficient fish samples to meet the objectives of the trend monitoring programme and the biomarker survey. On completion, *Clupea* made passage for the Colonsay site where trawling commenced at 0900 hours on 31 October. Four trawls were taken which provided a minimum sample. Passage was then made north where sediments were obtained from five sites within Loch Gairloch. Further passage north was made to Loch Broom where an additional set of sediments and a single trawl were taken.

On the morning of 1 November, passage was made for Broad Bay where two trawls were taken along with sediment samples from the trawl site. After the fish samples had been processed, *Clupea* made passage for Cape Wrath and the Pentland Firth. During worsening weather conditions, passage continued toward the Moray Firth and eventual docking in Fraserburgh by 1700 hours on 3 November. All biological samples, scientific equipment and scientific personnel were disembarked from *Clupea* by 1000 hours on 4 November, returning to Aberdeen where all samples were stored appropriately for subsequent analysis.

J M Pirie

11 November 1997

Seen in draft: A Simpson (OIC *Clupea*)

Cruise Track - 1897C

