

RE-ISSUE

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Not to be cited without prior reference to the Laboratory

FRV *Clupea*

Cruise 0994C

REPORT

30 April 1994-11 May 1994

Personnel

P Balls	PSO (in charge)
F Muller	Visitor (Southampton University)

Objective

Water sampling and analysis as part of the MAFF Chief Scientists Group funded collaborative project with Southampton University (metal/particle/colloid interactions).

Out-turn days per project

12 days: BGB1

Narrative

Clupea sailed from Fraserburgh at 1400 on 30 April and arrived in Ardrossan at 1500 on 2 May where F Muller joined the ship. The remainder of the day was spent loading equipment from Southampton University and setting up the laboratory.

Water samples from the Inner Firth were obtained during the 3rd, processing and experimentation with these commenced the same day at an anchorage in Lochranza. A change of weather necessitated a shift of anchorage to Brodick Bay where *Clupea* remained throughout the 4th while experiments continued. The pattern of sampling followed by a day of experiments was continued for the remainder of the cruise. Samples were obtained from the Inner and Outer Firth of Clyde, experiments took place at Ardrossan harbour.

On the morning of 9 May equipment was off loaded and scientific staff left the ship, *Clupea* then commenced the return journey to Fraserburgh.

Results

The experiments will be continued in Southampton where interpretation will also take place. Initial results however indicate that uncontaminated samples were obtained. A gradient of interactions between trace metals and complexing ligands was also apparent across the range of sites sampled in the Clyde plume. A further cruise for this collaboration project is scheduled for November.

P Balls

16 May 1994

Seen in draft: A Simpson

