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FRV *CLUPEA*

Cruise 2094C

REPORT

6-16 November 1994

Personnel

P Balls	PSO
F Muller	Visitor (Southampton University)
J Rusin	HSO (pt)
D Campbell	SO (pt)
P Hess	PhD student (pt)

Objectives

1. To obtain water from the Firth of Clyde and conduct trace metal speciation experiments on filtered and ultra-filtered samples.
2. To obtain plaice for trend monitoring of organochlorine contamination (1-1.5 miles NE of the centre of the Garroch Head dump site).

Out-turn Days per Project: 7 days BGB1, 2 days BGA1

Narrative

P Balls and F Muller joined *Clupea* in Ardrossan on the afternoon of 8 November, the remainder of the day was spent in setting up the laboratory. Water sampling at station 1 was completed on the 9th and processing of these samples occupied the 10th. This two day cycle of sampling/processing continued with stations 3 and 2 being occupied on the 11th and 13th respectively.

Adverse weather postponed the sampling for plaice from the 14th to the 15th. The additional scientific staff joined the ship at Millport on this day. Five trawls were obtained around the Garroch Head area and one from a control site in the Inner Firth close to Great Cumbrae. Fish were kept alive and offloaded at Millport where their processing was completed during the 16th. On the same day P Balls and F Muller left the *Clupea* in Ardrossan.

Results

The water samples collected await full analysis and interpretation. It was evident however that the extent of complexing by organic material was less than that observed during the cruise in April/May.

Processed fish samples await analysis for trace organics.

Philip Balls
22 November 1994

Seen in draft: A Simpson



CRUISE MAP 2094C

