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FRV *CLUPEA*

Cruise 1793C

REPORT

10-15 September 1993

Personnel

R D Adams	SO (in charge)
J M Pirie	SSO
G Slessor	HSO
M Lyons	PhD student

Objectives

1. To service five current meter moorings in the coastal zone between Arbroath and Fifeness.
2. To conduct a hydrochemical survey along the east coast of Scotland from the Moray Firth to the Firth of Forth.

Out-turn Days per Project

5 days BGE1

Narrative

Scientific staff joined *Clupea* at Dundee on the morning of Friday 10 September. After loading and setting up the scientific instrumentation *Clupea* sailed at approximately 1400. The three hydrochemical stations in the Tay were worked and *Clupea* then proceeded to sea. Due to unfavourable weather conditions, the ship was unable to cross the bar and anchored overnight in the Tay. Instruments for deployment were prepared that evening while at anchor.

Moorings work commenced on 11 September, moorings 6, 2 and 1 being serviced during the morning, afternoon and evening respectively. *Clupea* anchored overnight in the Tay where the remaining instruments were prepared for deployment. The remaining moorings (3 and 4) were serviced on 12 September and the hydrochemical survey commenced late that afternoon. Nine stations on Section K and five stations on Section M were completed. However, due to rapidly deteriorating weather conditions, the survey was abandoned. *Clupea* then proceeded to Largo Bay to shelter where she remained until the morning of Tuesday 14 September. Due to the continuing adverse weather conditions, it was decided to land the scientists and the scientific equipment at Granton since the scientific equipment was required for loading *Scotia* on Friday 17 September. Transport was arranged and scientific staff and equipment left *Clupea* at approximately 1400. *Clupea* proceeded to Fraserburgh as and when weather conditions allowed.

Results

Objective 1 was completed in good to moderate weather conditions, all five moorings being successfully serviced. Owing to bad weather conditions, only part of objective 2 was completed. Temperature and salinity were measured by NBIS CTD and nutrient and chlorophyll samples were collected by the Rosette sampler which performed well. Mooring instrument records and nutrients await analysis at the Laboratory.

R D Adams
20 September 1993

Seen in draft: S Clark

SCOTTISH NORTH SEA COASTAL ZONE PROJECT 1993

