

R1/12

Not to be cited without prior reference to the Laboratory

FRV *Clupea*

Cruse 1094C

REPORT

16-19 May 1994

#### Ports

Loading: Fraserburgh

Unloading: Fraserburgh

#### Personnel

R Payne HSO (in charge)

G Slesser HSO

H Ernstberger Student

#### Objectives

1. To service two oceanographic buoy moorings off St Andrews in the Scottish coastal zone.
2. To carry out a CTD and water bottle survey on four lines of stations in the Scottish coastal zone between Arbroath and Fife Ness to establish the temperature and salinity patterns and the nutrient concentrations in the area.

#### Out-turn Days per Project

4 Days: BGE1

#### Narrative

The scientific staff joined *Clupea* at 1015 on Monday 16 May 1994. *Clupea* sailed from Fraserburgh at 1500 and made a night passage to the St Andrew's Bay area. The two moorings were serviced by 1110 on Tuesday and the hydro/chemical survey commenced at 1236. The two southern lines were completed during the afternoon and evening and the vessel anchored in Largo Bay overnight. On 18 May 1994 the two northern lines were successfully completed and the vessel made a passage to Fraserburgh, arriving at 0500 on 19 May 1994.

#### Objectives

The two oceanographic buoy moorings supporting current meters, water-level recorders and nutrient analysers were successfully serviced.

The CTD and water bottle surveys had to be slightly curtailed due to the limited time allowed for this cruise. Twenty-six CTD dips with the rosette sampler were carried out.

The nutrient samples and CTD profiles have been returned to the Laboratory for analysis.

R Payne

27 May 1994

Seen in draft: A Simpson, OIC FRV *Clupea*