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FRV *Clupea*

Cruise 1297C

REPORT

22-30 July 1997

Personnel

M R Robertson	HSO	22-30 July (in charge)
E H Pinn	Res Asst	22-30 July
I Garioch	Contract Worker	22-30 July
J Breslin	Visitor (FRC, Dublin)	22-30 July

Gear: RoxAnn, Thermosalinograph, Fluorometer, Day Grab.

Objectives

1. To undertake an acoustic survey of the areas south of Barra Head and to the east, west and south of Coll, Tiree and Colonsay.
2. To record surface temperature, salinity and fluorometric data from throughout the area and to collect surface nutrient and salinity calibration samples.
3. To ground-truth the acoustic data.

Out Turn Days: nine days BKE1

Narrative

Clupea sailed from Oban at 1800 hours on Tuesday 22 July and made for the first transect position in the Firth of Lorne. On arrival, a towed body was deployed and logging of all data and sample collection commenced. Work continued, 24 hours a day, until 1730 hours on 24 July when a failure in the RoxAnn electronics forced the vessel to abandon the survey and head for Oban.

Clupea tied up at Oban harbour at 1000 hours on the morning of 25 July where a replacement discrimination system was installed and calibration runs carried out in the bay. On completion the vessel returned to the sampling grid, arriving on station at 1515 hours on the 25th when logging and sampling restarted and continued, without interruption, until 1230 hours on 28 July. *Clupea* then sailed for the north coast to collect a series of grab samples.

All work was completed by 1000 hours on 29 July and *Clupea* sailed for Fraserburgh, arriving there at 1950 hours.

Results

1. Approximately 1,000 miles of RoxAnn E1, E2 and depth data were logged from throughout the designated sampling areas (see Fig. 1). These data will be used in unsupervised cluster analysis to create maps of potential biotope boundaries and will form the basis for future TV, photographic, grab and trawl surveys.
2. A total of 100 surface nutrient, 27 surface chlorophyll and 27 salinity calibration samples were collected along with continuous logging of salinity, temperature and fluorescence data. These will be analysed later in the Laboratory.
3. Ground truthing grab samples were collected from off Oban while six samples for dinoflagellate cyst analysis were collected at 10 mile intervals along the north Scottish coast.

M R Robertson
22 August 1997

Seen in draft: A Simpson

Figure 1
Transects Occupied During Cruise 1297C

