

Indexed *AK*

PD

R1/3

Not to be cited without prior reference to the Laboratory

MV "RESOLUTION"

CHARTER CRUISE

REPORT

Part 1: 2-16 September 1988
Part 2: 17-29 September 1988

Personnel

Part 1: P W Rankine	SO (In charge)	Part 2: P W Rankine	SO (In charge)
D L Baird	SO	M R Robertson	SO
A Matthews	ASO	D Keay	SO
I Gibb	ASO	L Cargill	ASO

Objectives

1. To take part in the ICES co-ordinated International Herring Larval Surveys in the Buchan, Orkney-Shetland and west of Scotland areas.
2. To collect surface temperature and salinity data over the three ICES survey areas.
3. To remove and count all herring and other fish larvae from the plankton samples collected during the surveys.

Narrative

The Gardline charter vessel "Resolution" left Aberdeen at 1800 on 2 September and commenced sampling of the Buchan survey grid at 0830 on the 3rd. The survey continued as in Figure 1, the grid being completed on 8 September. "Resolution" then steamed through the Pentland Firth to the west of Scotland area where sampling recommenced later the same day. The survey then proceeded with only one break for bad weather until "Resolution" docked in Ullapool on the 15th, for the mid trip break.

Scientific and ship's staff were changed on the 16th and "Resolution" left Ullapool at 1700 that evening. A second coverage of the west of Scotland area was completed on the 21st. Sampling continued in the Orkney-Shetland area as depicted in Figure 2 until the 28th. "Resolution" then steamed for Aberdeen, docking at 0800 on 29 September.

Results

One complete coverage was made of the priority stations in the Buchan area and a total of 91 samples taken. Two coverages were made of the west of Scotland area and one of Orkney-Shetland, 174 and 118 samples being collected in each area respectively. All samples were examined on board for the presence of herring and other fish larvae and a total of 68,166 clupeid larvae removed from the samples during the trip. Preliminary results depicting the distribution of herring larvae found during each survey are given in Figures 3-6.

In addition to the continuous monitoring of sea surface temperature and salinity from a pumped sea water supply, surface sea water temperature observations were made at our request by the ship's officers, using a thermometer at each station. ("Resolution" is an official Met Office weather observation ship.)

Two hundred herring larvae were also collected and preserved in alcohol for otolith studies by Norwegian workers.

P W Rankine

1 November 1988

Figure 1

MV "Resolution" ICES Larval Survey Part 1 2-16 September 1988

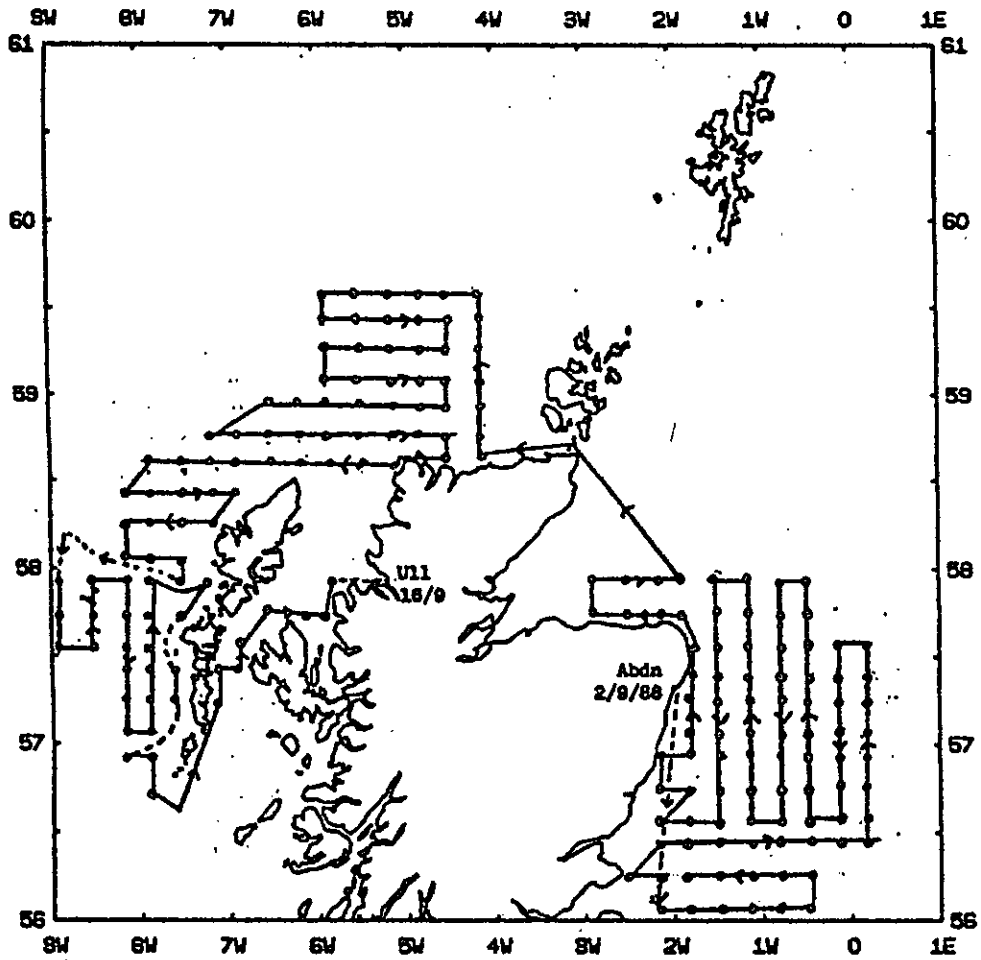
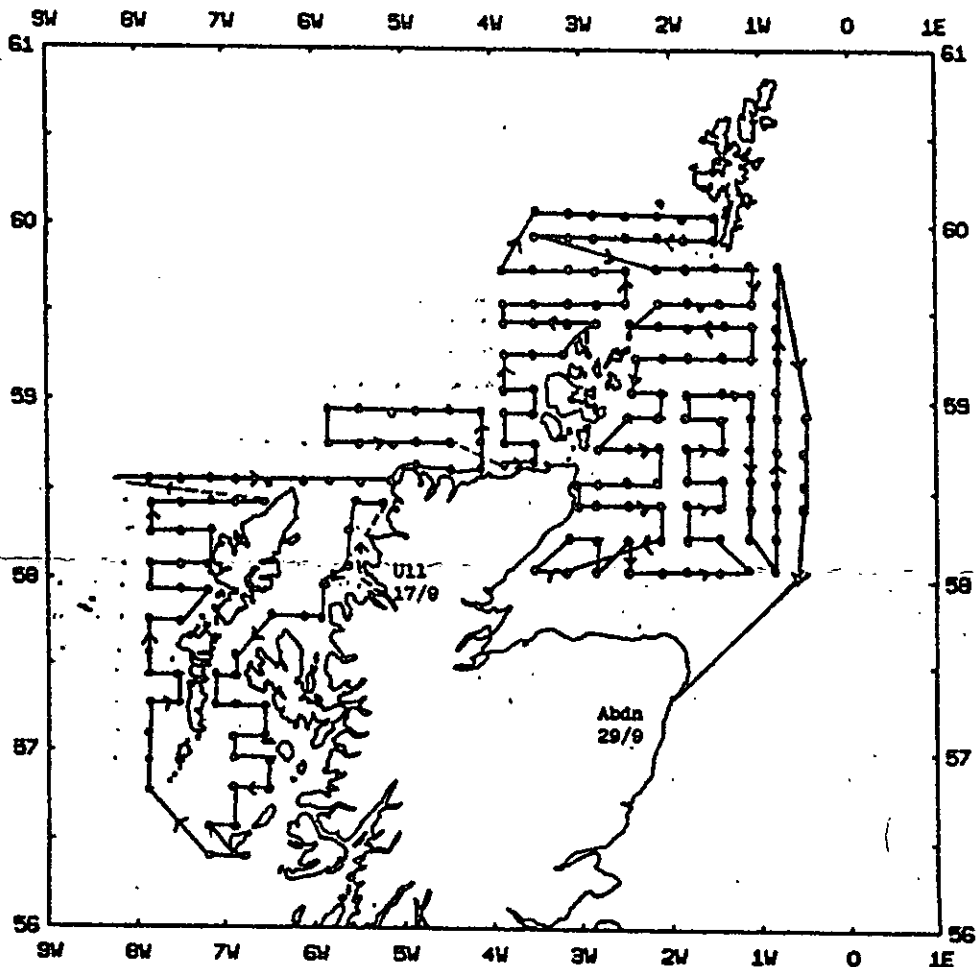


Figure 2 MV "Resolution" ICES Larval Survey Part 2 17-29 September 1988



* Dutch Gulf III Station

Fig. 3 BUCHAN 2-8 SEPT TOTAL LARVAE/M²

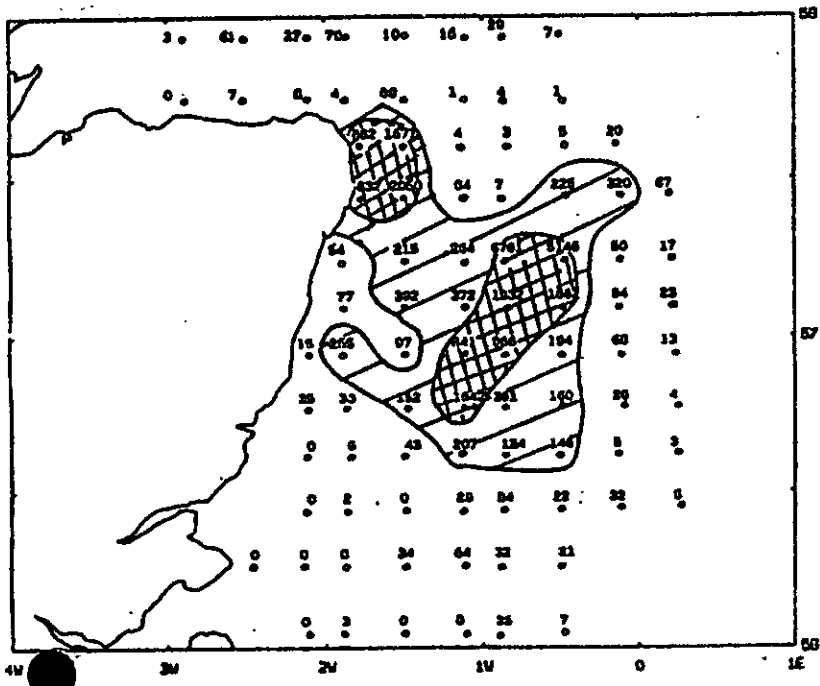


Fig. 4 VIA(N) 8-16 SEPT TOTAL LARVAE/M²

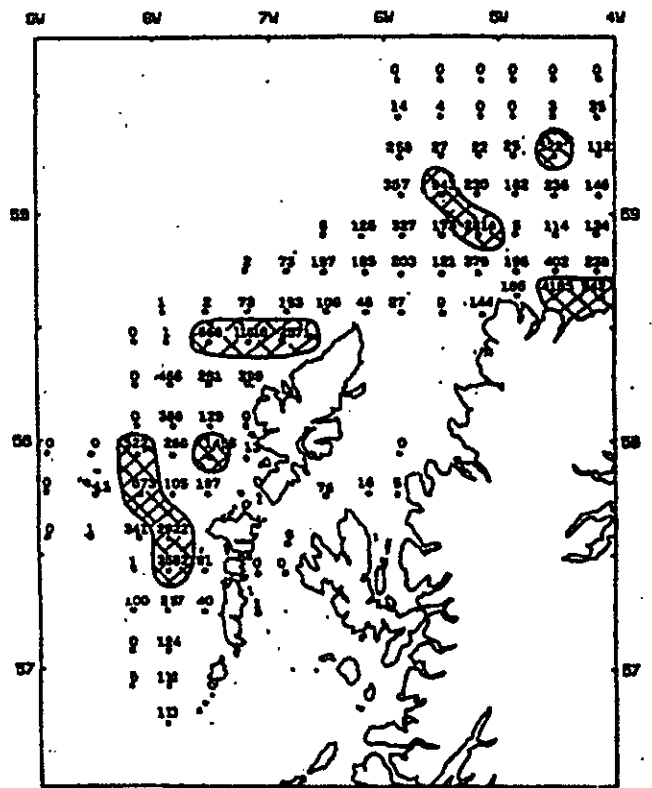


Fig. 5 VIA(N) 17-21 SEPT TOTAL LARVAE/M²

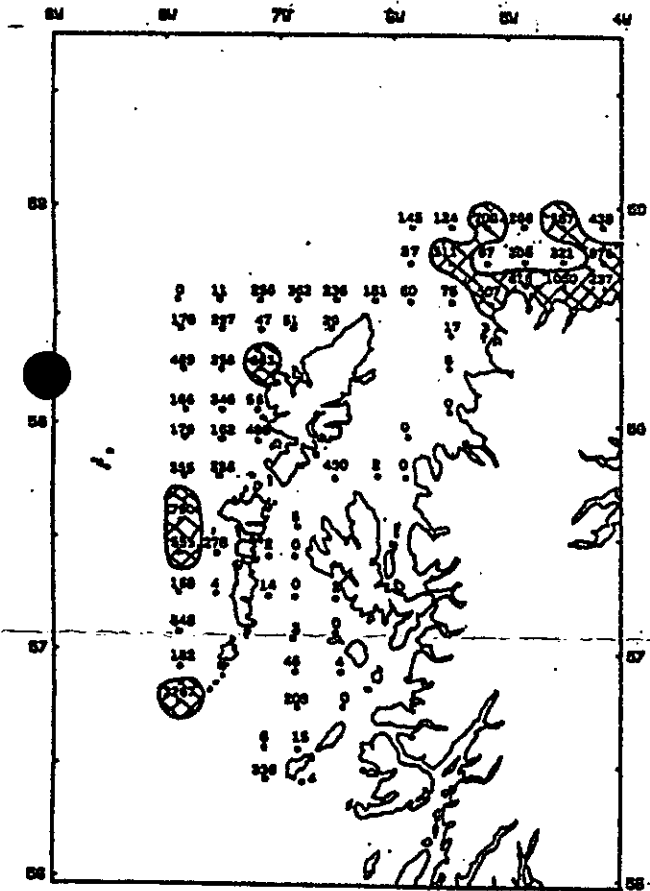


Fig. 6 ORK-SHETLAND 21-28 SEPT TOTAL LARVAE/M²

