

R1/12

10SR85

IN CONFIDENCE Not to be quoted without prior reference to the Laboratory

FRV "SCOTIA"  
Cruise 10/85

SM

REPORT

4-24 October 1985

Personnel

P W Rankine	SO
N T Nicoll	HSO
R Payne	HSO
R D Adams	SO
Miss J Staples	ASO

Objectives

- 1) To participate in the ICES Co-ordinated Herring Larval Surveys in ICES Division VIA.
- 2) To collect water samples for radiocaesium analysis.
- 3) To recover current meter moorings deployed off the North coast of Scotland.
- 4) To sample six hydrographic stations near the current meters.
- 5) Time permitting to carry out some hauls for the identification of invertebrate larval predators.

Narrative

FRV "Scotia" left Aberdeen at 1400 on 4 October and commenced sampling at Station 36 on 5 October. Stations were then sampled as indicated in Figure 1. Sampling was discontinued at Station 154 on 10 October due to the very heavy weather conditions and resumed at the same station the next morning. Sampling was then continued until 14 October when the sampler hit an underwater peak at Station 83. "Scotia" docked in Stornoway later that morning for the mid-cruise break.

"Scotia" was delayed leaving Stornoway due to engine repairs, until 1800 on 15 October and then proceeded to Broad Bay where repairs continued. As the engine fault was rather more serious than at first envisaged, "Scotia" returned to Stornoway on 16 October and was further delayed until the morning of 18 October while repairs were carried out. "Scotia" then steamed for Station 71 where sampling was resumed at 2300 hrs on the same day.

Sampling then continued as in Figure II. Current moorings were lifted and 5 hydrographic stations completed on 19 and 20 October. After making for Thurso, where Mr Geddes disembarked "Scotia" resumed the survey at Station 15 at 2215 on 20 October and sampling continued as in Figure II. A sixth hydrographic station was sampled at 1100 hours on 23 October and the survey was completed at Station 36 at 1530 hours that day. "Scotia" then steamed for Aberdeen docking the following morning at 0700 hours.

Results

Despite the delay in Stornoway due to engine trouble, all the main herring spawning grounds were sampled twice during the survey.

All fish larvae were removed from the samples and clupeid larvae counted.

The 6 hydrographic stations were sampled from surface to bottom and surface water monitored for temperature and salinity throughout the survey. The 4 current meters were successfully recovered despite very heavy weather conditions at times.

Water samples were collected for radiocaesium analysis at Cape Wrath, in the Pentland Firth and off Aberdeen. Time did not permit the taking of any samples for the identification of invertebrate larval predators.

Paul Rankine  
4 November 1985

seen in draft  
W Findlay

10

9

8

7

6

5

4

FIGURE 1

CRUISE

10/85

SCOTIA

LARVAL

SURVEY

S-14/10/85

59

58

57

56

55

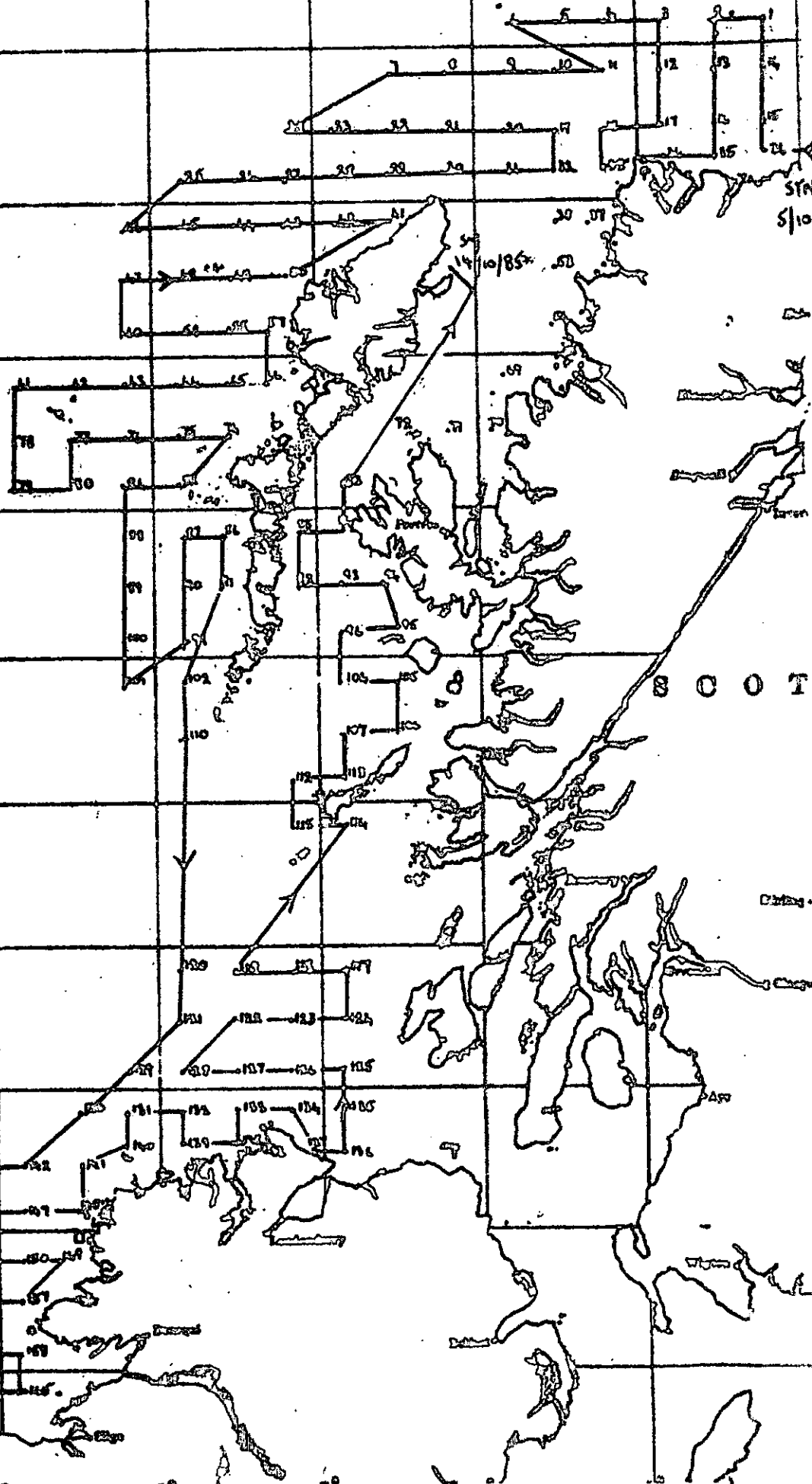


FIGURE II

CRUISE 10/85

Scotia

LARVAL

SURVEY

18-23/10/85

59

58

57

56

55

