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FRV *Explorer*

Cruise 2/01

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Carrier South Carrier Space Carrier South

Report

11th February - 3rd March 1981

Objectives

To take part in the ICES Young Fish Survey in the North Sea.

Narrative

*Explorer sailed from Aberdeen at 1830 on 11th February and proceeded to work stations off the east coast of Scotland. However, faults developed in the vessels two radars and 'Explorer' was forced to anchor off Granton for 12 hours whilst shore based technicians effected repairs. *Explorer resumed her scientific programme on 14th February and after completing work off the Scottish and English coasts 'Explorer' steamed to the Dogger Bank. On completion of these stations "Explorer" proceeded to further stations off the Danish Goast; whilst in this area a visit was made to Esbjerg (on 19th February) and the opportunity was taken to collect scientific samples from the Danish Fisheries Institute. All scientific work was completed in the southern North Sea by 21st February and 'Explorer' then proceeded to stationsSE of the Orkney Islands. Work continued until southerly gales forced 'Explorer' to seek shelter in the Horay Firth. As the weather showed no sign of moderating in the Moray Firth an attempt was made to continue scientific work to the west of the Orkneys but again this work was thwarted by bad weather and shelter was sought in Dunnet Bay. "Explorer" returned to Aberdeen on 3rd March. docking at 0300 hours.

Results

Bottom trawling was carried out using a GOV trawl which was fitted with rubber discs for the stations off the Danish and Dutch coasts and fitted with rubber bobbins for all other stations. The hauls were of 1 hour duration and Table I provides a summary of the principle species (at 0+ and 1+ years) occurring in each square sampled. Where more than 1 haul was made in a particular square the results were averaged to produce a 'per hour' figure.

Catches of Lod, haddock and whiting were further examined to produce an analysis of catch per 10 hours per age group. The results for the international reporting areas surveyed by 'Explorer' are shown in Table 2.

In order to participate in the ICES stomach sampling programme a total of 4449 cod, haddock, and whiting stomachs were examined; stomachs which showed no sign of regurgitation during capture were preserved for detailed analysis in various European laboratories.

In addition 2070 cod, haddock and whiting were sexed and otolithed, the otoliths were read during the course of the cruise.

Using the Isaac-Kidd midwater trawl, 2 night hauls for premetamorphosis herring larvae were made in each of the 28 statistical squares sampled by *Explorer*.

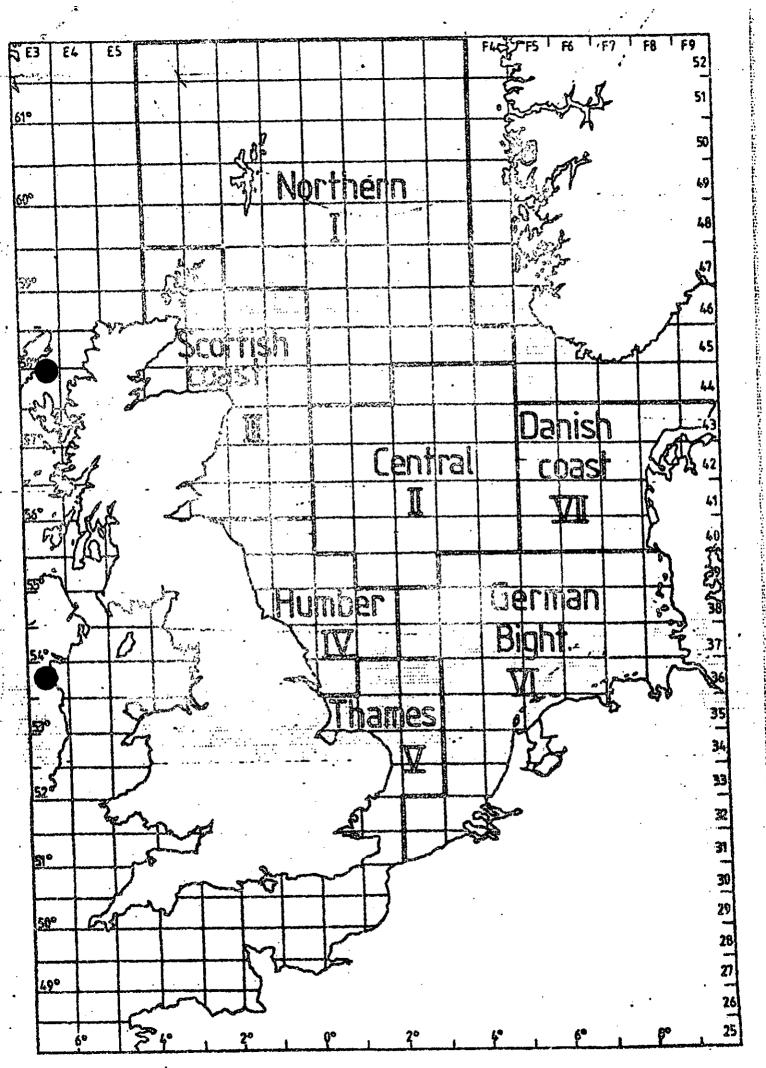
A W Newton May 1981

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TABLE 2

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VI	1092	320	123	41	12	1			1589



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