

Mr BATE

1975 RESEARCH VESSEL PROGRAMME

REPORT: RV CIROLANA: CRUISE 2

(PROVISIONAL: Not to be quoted without prior reference to the author)

STAFF

R J Wood
G J Howlett
C L Whiting
T W Boon
M W Easey
Miss W A Porter
J E French (Sandwich Student)

DURATION

Left Grimsby 1300 h, 4 February

Arrived Great Yarmouth 1344 h, 16 February

All times are Greenwich Mean Time

LOCALITY

North Sea

AIMS

1. To participate in the ICES Young Herring Survey hauls with the Dutch herring trawl to be made in each of the 18 rectangles allocated to RV CIROLANA in the central and southern North Sea. Up to 4 hauls to be made per rectangle for herring and gadoids according to the degree of priority set for each rectangle by the ICES North Sea Young Herring Working Group.
2. To attempt to sample 0-group herring, within the length range 20-40 mm, using a Boothbay Net.
3. To make temperature and salinity observations (surface and seabed) within each of the rectangles fished.

NARRATIVE

CIROLANA sailed from Grimsby at 1300 h, 4 February and made passage northwards. The trawl survey commenced at 0730 h next morning in good weather conditions at the northern extremity of the Farne Deeps. During the following 5 days CIROLANA continued to fish in the rectangles adjacent to the English north-east coast and work in the area was completed by 1530 h, 9 February, despite a considerable amount of damage to the Dutch herring trawl. The seabed generally is unsuitable

for working such a light gear in a number of the rectangles allocated to CIROLANA off the English east coast, and the damage was unavoidable even though the fishing positions were chosen with considerable care.

An overnight passage was made eastwards to a rectangle off the Danish coast and the stipulated 4 hauls with the Dutch herring trawl and one with the Boothbay net completed there by 1745 h next day, 10 February. During the following 5 days fishing was carried out in a further 8 rectangles in the southern North Sea, between the Dutch and English coasts. The most southerly rectangle (0332) was abandoned because no suitable ground for herring trawling could be located in it, and only one haul was possible in another rectangle (0530), however the remainder of the survey was successfully completed by 1850 h, 15 February. CIROLANA berthed in Great Yarmouth at 1344 h, 16 February.

RESULTS

1. A total of 41 hauls with the Dutch herring trawl were made during the cruise and valid hauls were made in 17 of the 18 rectangles allocated to CIROLANA. Catches of herring were generally small ranging from nil to 2937 per hour's fishing. Catches of 1-group herring (the 1973/74 year-class) were lower than in the previous year (the 1972/73 year-class).
2. Radio contact was established with RV ANTON DOHRN during the survey and some of the preliminary results passed on for circulation to the other participating vessels.
3. Surface and bottom temperature and salinity observations were made in each sampling rectangle, and the thermograph was run continually throughout the survey.
4. Twelve hauls were made with the Boothbay net during the cruise. Catches were small and consisted of sprats, pipefish, sticklebacks and sandeels together with a number of, so far unidentified, fish larvae. Herring larvae within the length range 20-40 mm may be present in some of the catches which were obtained in the southern North Sea.
5. A full biological sampling programme was carried out on herring, cod, whiting, haddock and Norway pout in each of the rectangles fished. Samples of sprat and mackerel were measured.
6. Six seawater samples together with samples of herring and cod were collected for the Radiobiological laboratory.
7. A number of samples of mixed gadoids, clupeids and pleuronectids were collected and deep frozen for Mr Blacker.

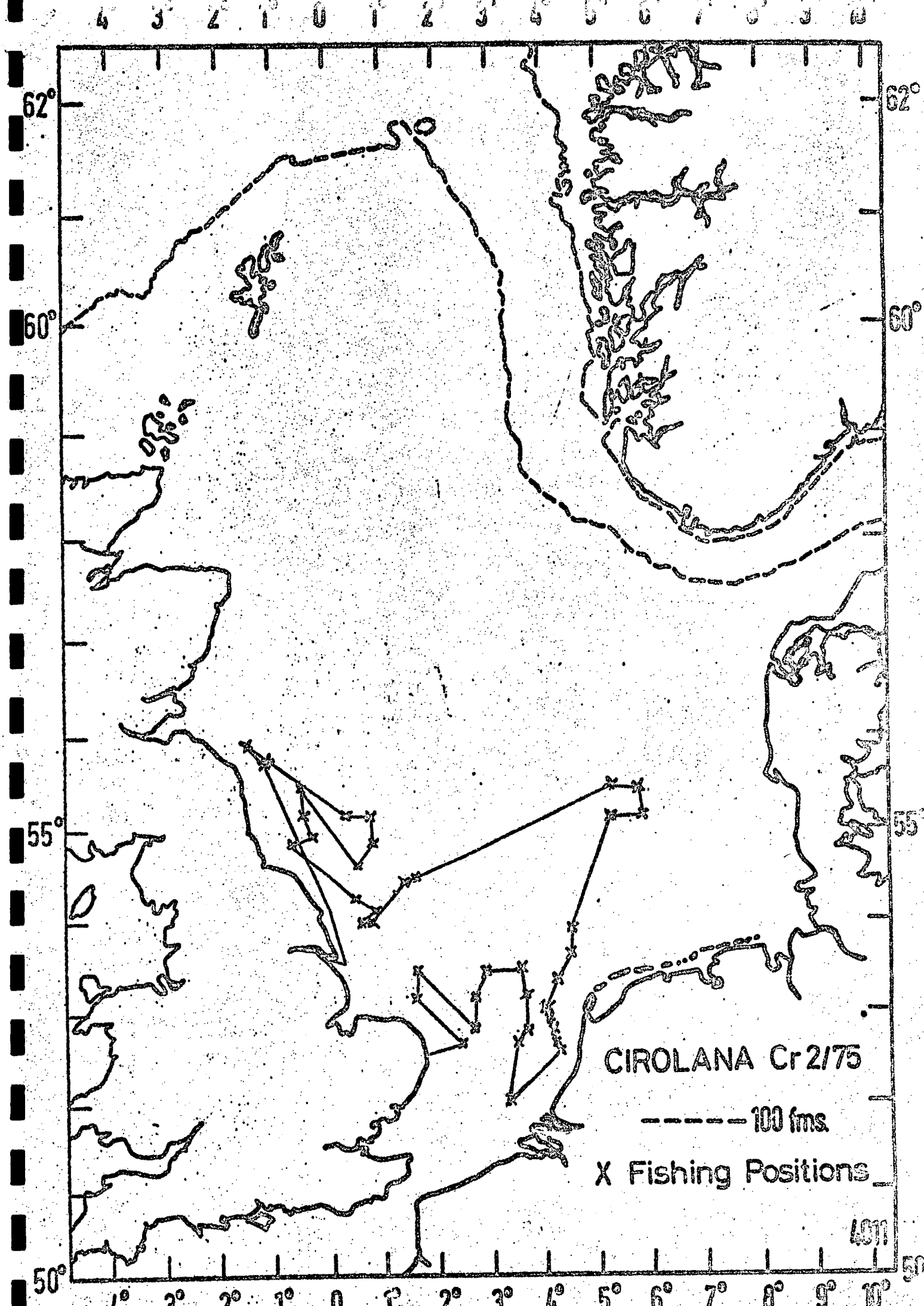
R J Wood
20 February 1975

SEEN IN DRAFT: THF, GWA

INITIALLED: AJL

DISTRIBUTION:

Basic list	T W Boon
R J Wood	M W Easey
G J Howlett	Miss W A Porter
C L Whiting	J E French (Sandwich Student)



CIROLANA Cr 2175

----- 100 fms.

X Fishing Positions

4811