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MINISTRY OF AGRICULTURE, FISHERIES AND FOOD
FISHERIES LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND
1981 RESEARCH VESSEL PROGRAMME

REPORT: RV CORELLA: CRUISE 8
(PROVISIONAL: Not to be quoted without prior reference to the author)

STAFF

D J Symonds
C N Humphreys
C L Whiting
A M Watson
A W G John (IMER Plymouth)

DURATION

Left Lowestoft 1700 h 12 June
Arrived Lowestoft 0500 h 26 June
All times are Greenwich Mean Time

LOCALITY

North Sea

AIM

1. To participate in the international North Sea 0-group survey.

Additional aim

2. To measure the specific gravity and rate of rise of fish eggs, particularly those of mackerel, during development.

NARRATIVE

CORELLA started the survey north of Flamborough Head at 0800 h on 13 June and worked northwards along the east coast of England and Scotland. The mid-cruise break, to take on water and stores and to land a sick deckhand, was made at Kirkwall from 1100 h on the 19th to 0950 h on the 20th. Stations west of the Orkneys were worked before the ship proceeded through the Pentland Firth to finish the sampling off the NE Scottish mainland. Six coastal stations south of 57°N were repeated by 0830 h on 25 June to complete the English commitment to the survey and CORELLA then proceeded to Lowestoft.

Daily radio contact was made with RV EXPLORER to exchange data on 0-group gadoid catches.

RESULTS

- Aim 1. A total of 44 1-hour hauls with the International Young Gadoid Pelagic Trawl was made. The position of the thermocline was determined with a temperature-depth bomb before each haul which consisted of 20 minutes fishing near the bottom, 20 minutes in the thermocline (or in mid-water if absent) and 20 minutes near the surface. 0-group cod were taken in most hauls with the biggest catch in the extreme northeast of the survey area. This same haul (in ICES rectangle 47E9) also produced the best catch of 0-group haddock.

EXPLORER also reported good catches of these species in rectangles to the north.

Catches of 0-group whiting were generally poor throughout the area with the best catches coming from inshore stations off the Scottish north coast and north-east of the Orkneys. 0-group saithe were almost absent and Norway pout were only taken in reasonable numbers in two hauls off north-east Scotland.

The length distributions of all other species of fish were measured and records on the abundance of macroplankton and sightings of cetaceans were maintained.

Aim 2. Seventeen 15-minute hauls were made with a 2-metre plankton net. Fish eggs, particularly those of mackerel, were scarce and only in one haul (off Aberdeen) were eggs abundant. The density gradient column was used to measure the specific gravity of eggs of mackerel and other species.

D J Symonds
22 July 1981

SEEN IN DRAFT: G Sinclair (Master)
R C Newrick (Fishing Skipper)
John Shepherd

INITIALLED: DJG

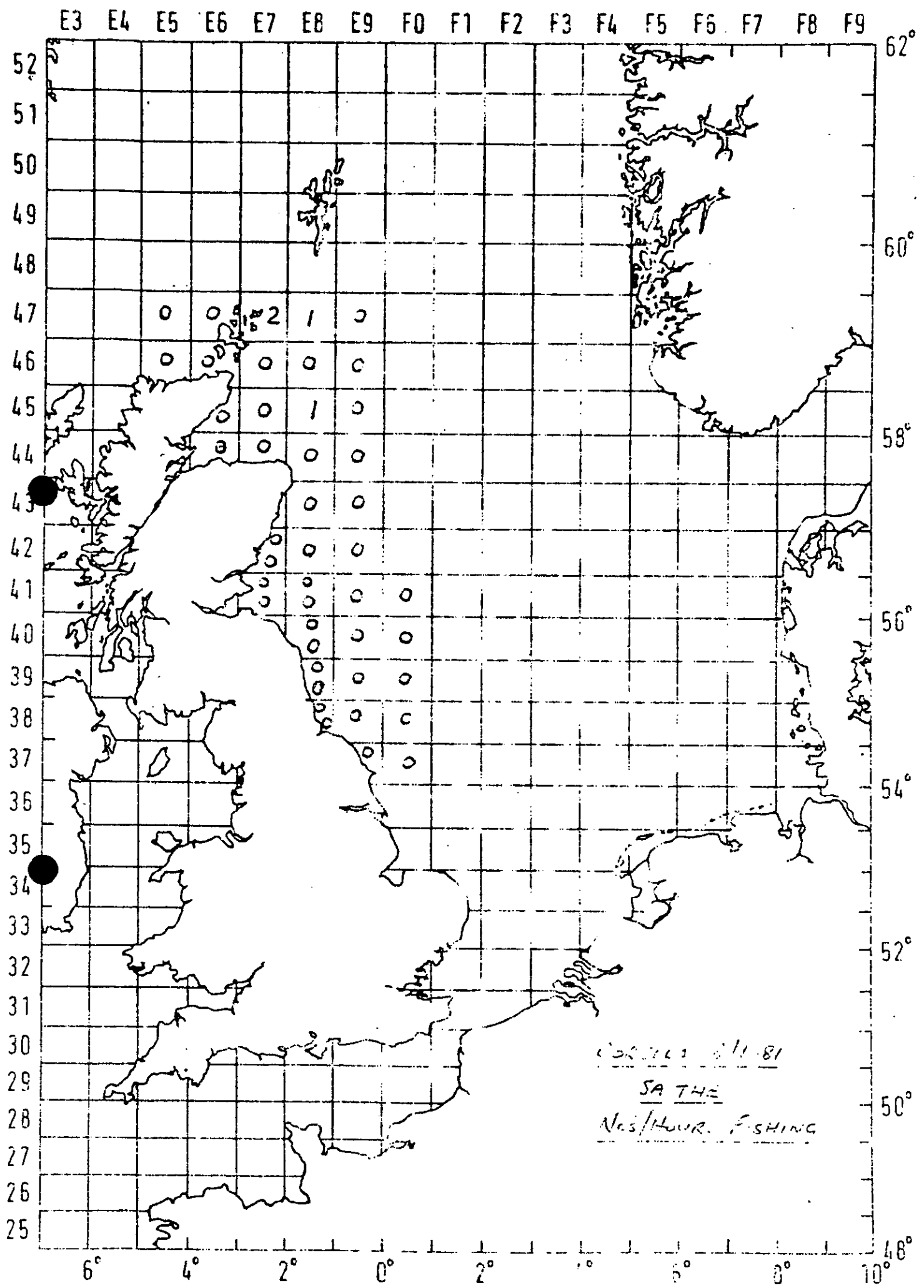
DISTRIBUTION:

- Basic List
- D J Symonds
- C N Humphreys
- C L Whiting
- A M Watson
- W G Parnell
- A W G John (IMER Plymouth)

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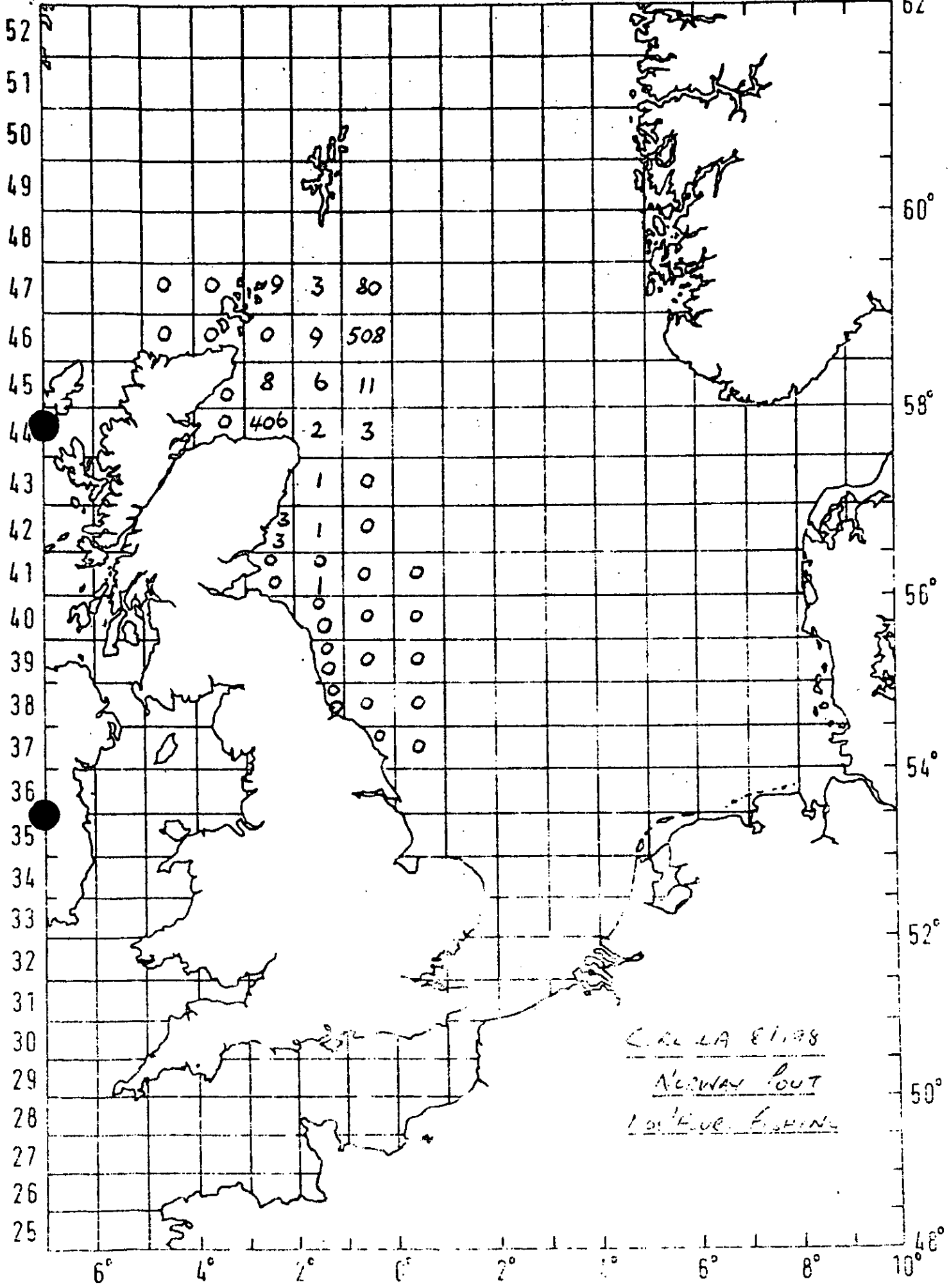
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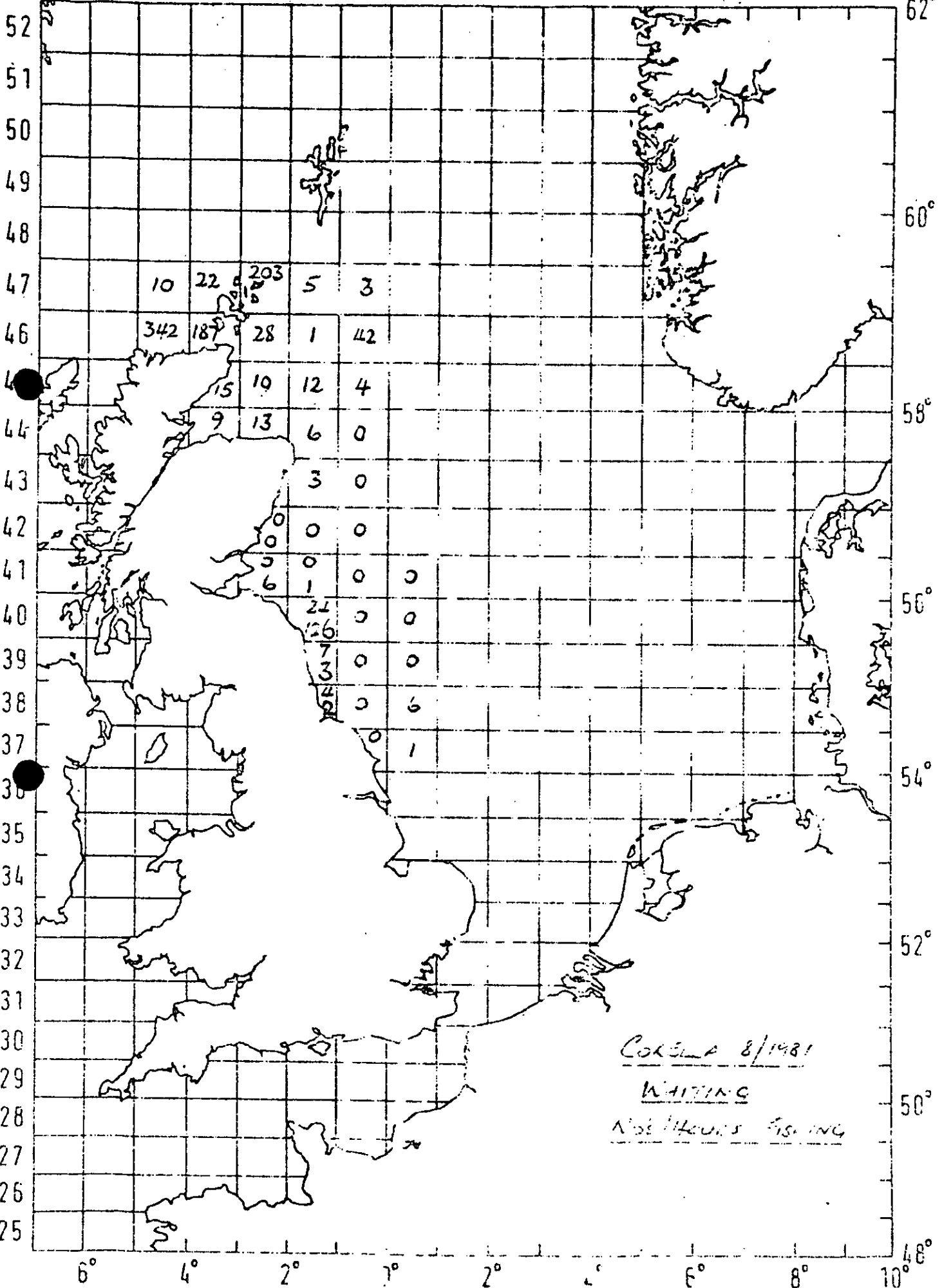
CORALS 11-81
 SA THE
 Net/ HOUR. FISHING

E3 E4 E5 E6 E7 E8 E9 F0 F1 F2 F3 F4 F5 F6 F7 F8 F9



C. L. LA ELIAS
NORWAY ROUT
10' BLUE FISHING

E3 E4 E5 E6 E7 E8 E9 F0 F1 F2 F3 F4 F5 F6 F7 F8 F9



COSELA 8/1981
WAITING
Abse Hours Fishing

