

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD,  
FISHERIES LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND

1982 RESEARCH VESSEL PROGRAMME

REPORT: RV CORELLA: CRUISE 5

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

STAFF:

D J Symonds  
J H Nichols  
M R Vince  
D A Cook  
J M Elson

DURATION:

Left Lowestoft 0700 h 5 April  
Arrived Lowestoft 0215 h 16 April

All times are Greenwich Mean Time

LOCALITY:

Irish Sea

AIM:

To carry out a plankton survey to determine the distribution and abundance of Nephrops larvae.

NARRATIVE:

Passage to the Irish Sea was temporarily interrupted from 0130 h 7 April until 0630 h 8 April when CORELLA anchored in Mounts Bay due to SW gales. The survey started off Wicklow at 0430h 9 April and continued without incident until 1340 h 12 April when the ship put into Douglas for water.

Sailing from Douglas at 0715 h 13 April, two stations were completed by 1230 h on the same day and CORELLA proceeded to Lowestoft.

RESULTS:

60 valid hauls were made with the 30" TTN. Most of these were made on the western side of the Irish Sea while a skeleton survey was carried out to the north and east of the Isle of Man (figure 1).

Provisional results (figure 2) show that Nephrops stage I larvae were widespread and, to the west of the Isle of Man, their distribution was similar to that of commercially fished Nephrops. 6 stage II larvae were caught during the survey suggesting that hatching had only recently begun. No larvae were found off the Cumbrian coast where adult Nephrops are also known to occur. Bottom temperatures were almost a degree centigrade lower in this area and it is possible that hatching is later.

Chlorophyll A fluorescence in surface water was monitored continuously throughout the survey and samples were taken at each station for salinity, silicate, nitrate

and phosphate analysis.

Samples of surface water were collected for cyanobacteriological studies at the Menai Bridge Laboratories, Anglesey.

D J Symonds  
28 April 1982

**SEEN IN DRAFT:**

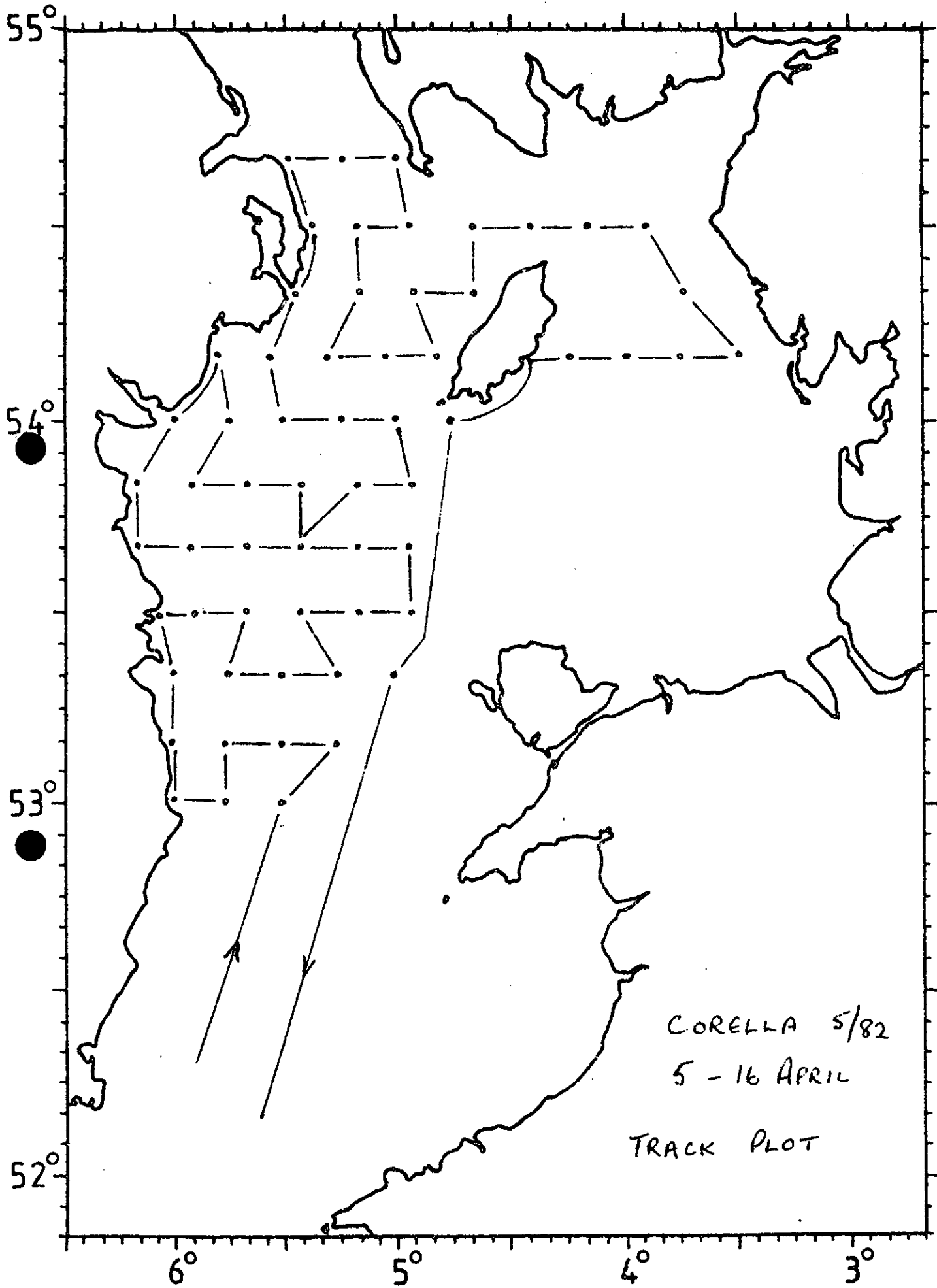
G Sinclair (Master)  
R C Newrick (Fishing Skipper)

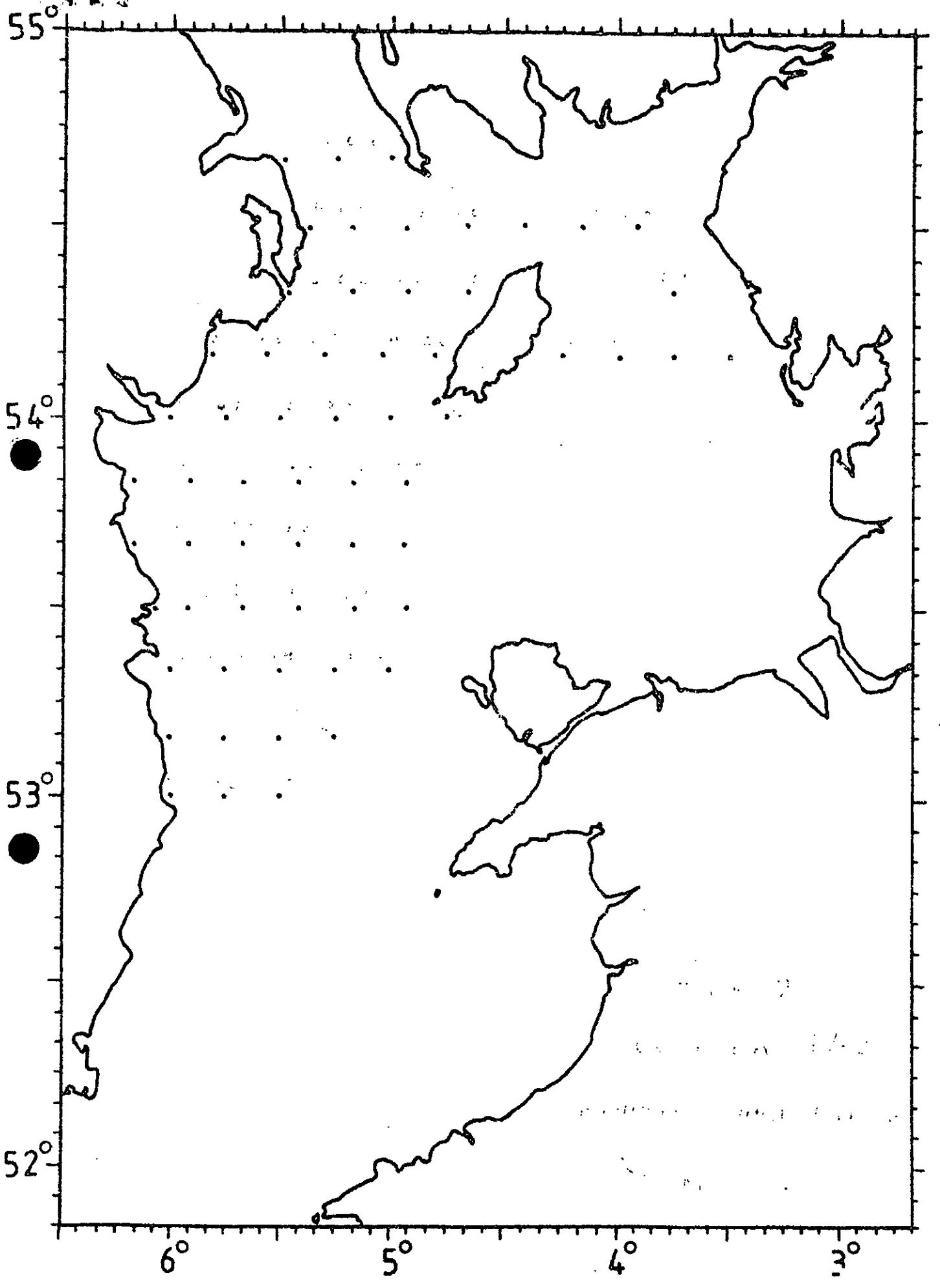
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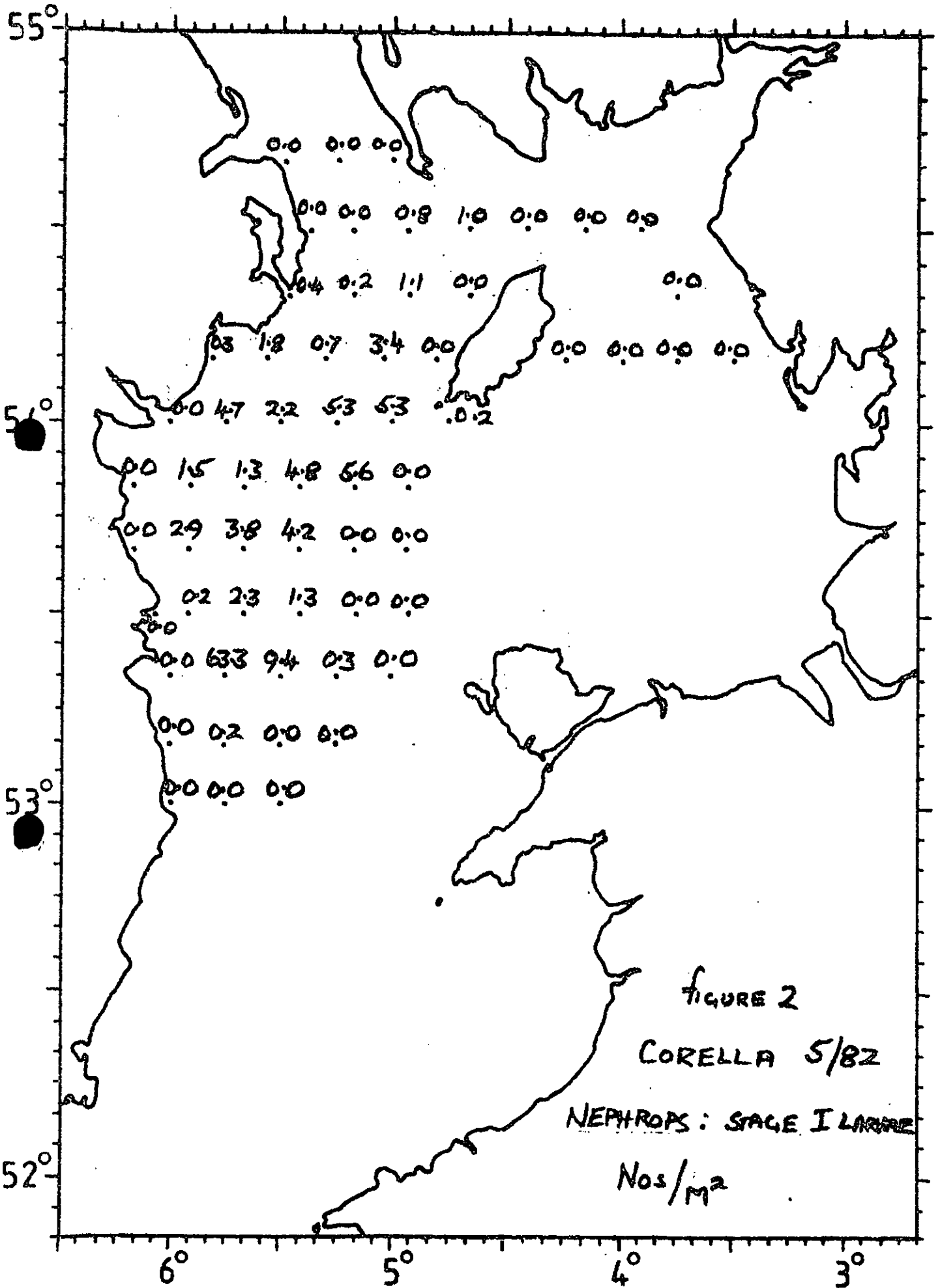


FIGURE 2

CORELLA 5/82

NEPHROPS: SAGE I LARVAE

Nos/m<sup>2</sup>