

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD
FISHERIES LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND NR33 0HT

1986 RESEARCH VESSEL PROGRAMME

REPORT: RV CLIONE: CRUISE 5b/86

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

STAFF: A K Steele

R J Read

K R Wink

T E Eaton

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T D Crane

DURATION: Left Fleetwood 1415h 15 April
Arrived Lowestoft 0330h 1 May

LOCALITY: Irish Sea, Celtic Sea and British Isles Coastal Waters.

AIMS:

1. To collect surface seawater samples at all stations on the proposed track and at selected stations to collect nearbottom seawater samples for radiocaesium analysis.
2. At one station in the vicinity of St Bees Head, to measure the suspended load in the water column over a tidal cycle.

NARRATIVE:

CLIONE sailed from Fleetwood on the afternoon tide of 15 April and worked the stations in the Eastern Irish Sea. At 0915h 17 April, having worked the station off St Bees Head in 40 knots of northerly wind and with a forecast that the wind would back, it was decided to abandon the plan to carry out the suspended load observations at the position where the tetrapod rig had been recovered on Part A of the cruise.

The ship continued working the station grid, completing the stations in the eastern Irish Sea by 1715h 17 April, when the ship worked her way south to the Celtic Sea and completed this part of the grid by 1740h 20 April. Heading north again the ship worked her way along the Irish Coast to the North Channel where the stations were completed by 0745h 22 April.

The station grid to the west and north of Scotland was worked until 1115h 25 April when the ship called at Kirkwall to take on fresh water. Sailing at 1235h 26 April the station grid was worked to the west and north of Shetland and at 2225h 27 April the ship headed south to complete the station grid before docking in Lowestoft at 0330h 1 May, one day early.

RESULTS:

Surface seawater and nearbed seawater samples, collected by 30l Niskin bottles were filtered and ^{134}Cs , ^{137}Cs extracted by passing 50 litre samples through cartridges containing ammonium molybdophosphate on silica gel. The cartridges were retained for gamma spectrometric analysis in Lowestoft.

Those samples collected in territorial waters of the Republic of Eire will also be analysed by the N.E.B. Dublin.

The table below shows the number of seawater samples which were collected and processed in each sea area.

	Surface	Near Bottom *
Irish Sea	70	54
Celtic Sea	10	8
West of Scotland	14	12
North of Scotland	20	17 + 3 *
North Sea	14	5
Total	128	99

* or 300m where the depth exceeded 300m.

In addition surface seawater samples collected at 13 stations on Part A of the cruise while on passage from Lowestoft to the Irish Sea were processed for radiocaesium analysis.

A K Steele
8 May 1986

SEEN IN DRAFT: G Sinclair
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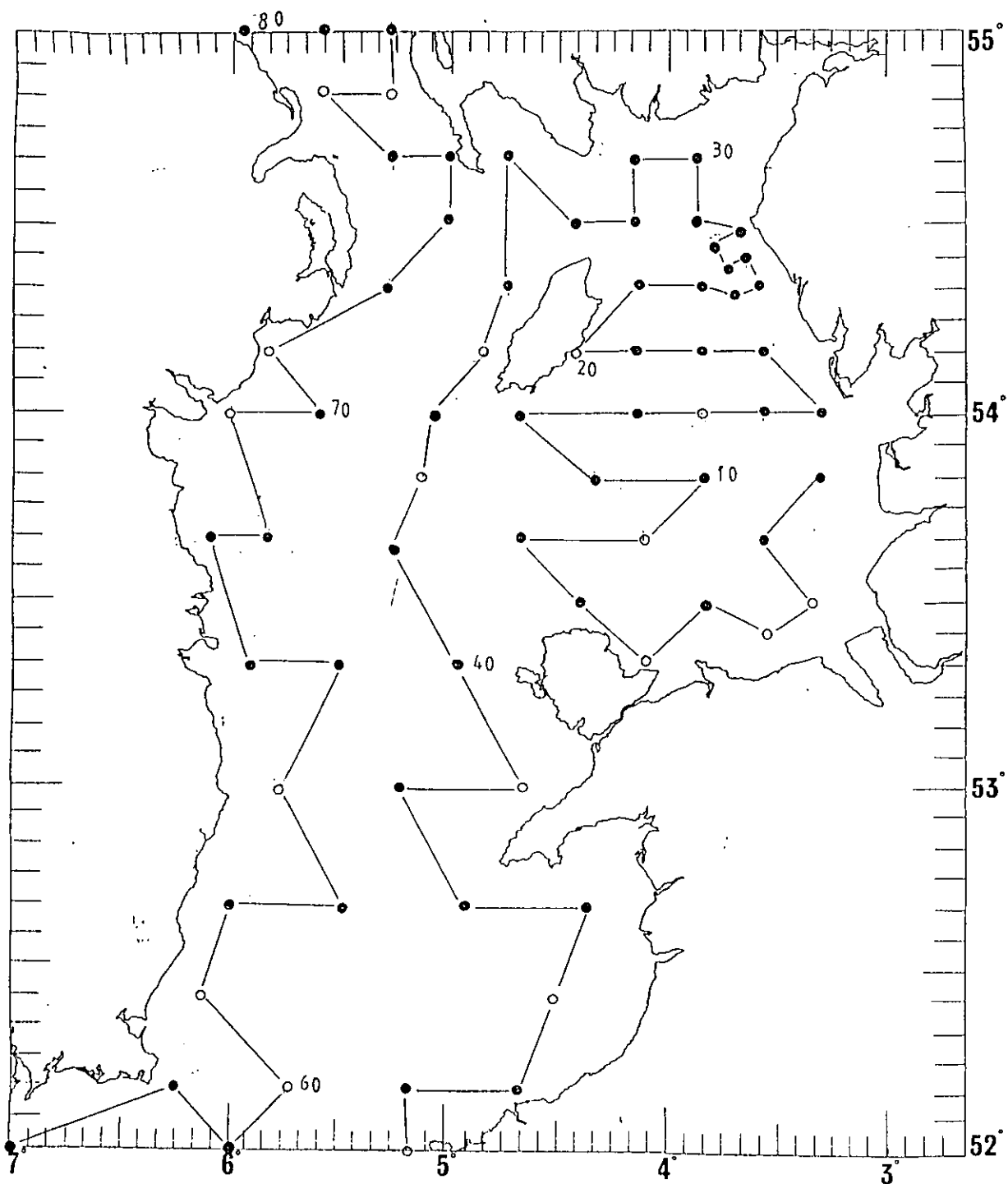
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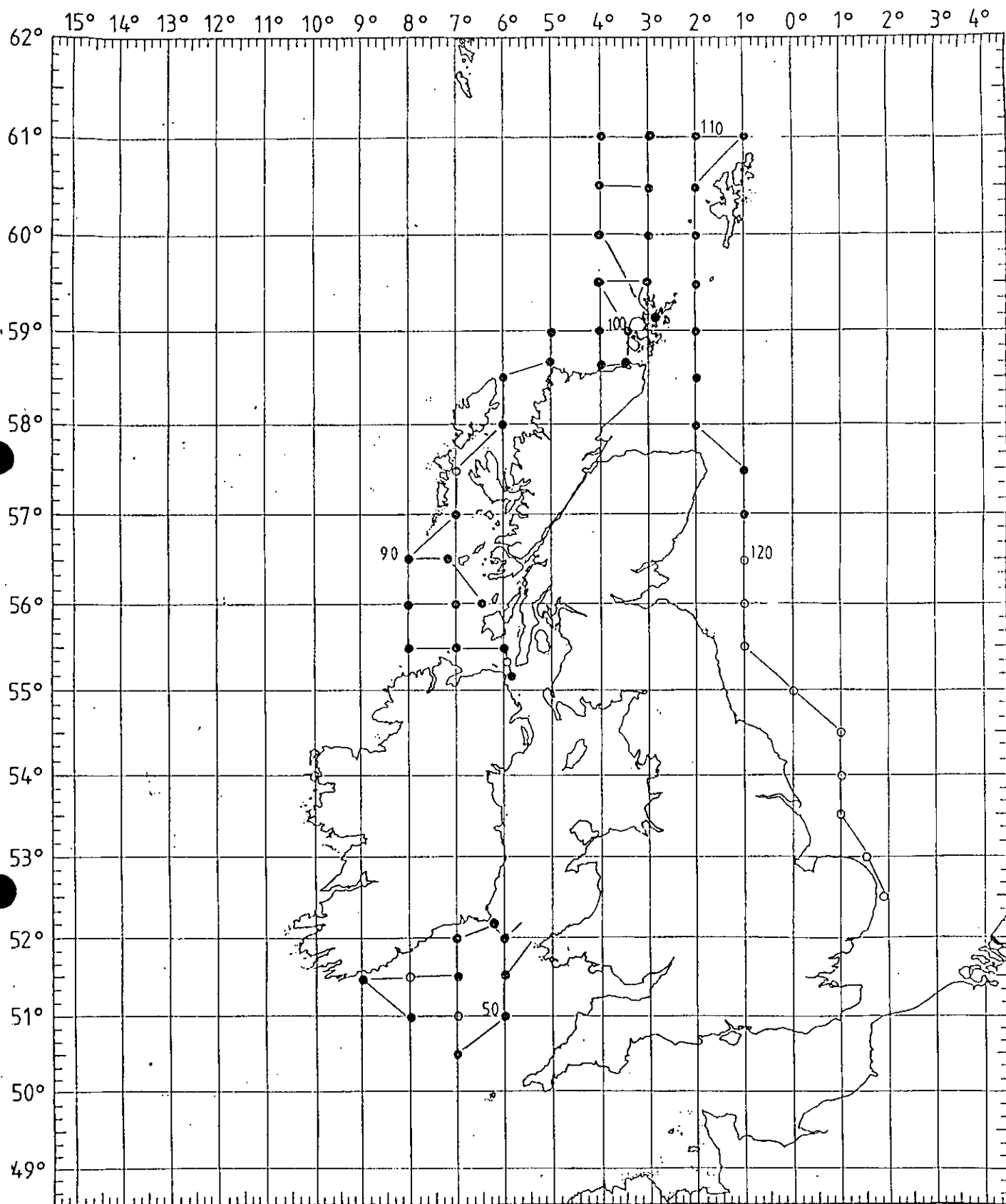
Dr S Jones, BNFL, Sellafield

NBST Dublin



RV Cliona 5b 8b Cruise track for Irish Sea

79-103



RV Clione 5b 86 Cruise track, excluding Irish Sea