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

1987 RESEARCH VESSEL PROGRAMME

REPORT: RV CLIONE: CRUISE 5a
(PROVISIONAL: not to be quoted without prior reference to the author)

STAFF

- A K Steele
- R J Read
- K R Wink
- T D Crane
- A D Cousins
- J D Parr

DURATION

Left Lowestoft 1340h 7 April
Arrived Stranraer 0950h 20 April

LOCALITY

Irish Sea and West of Scotland

AIMS

To collect surface seawater samples at all stations on the proposed track and at selected stations to collect midwater and near bottom seawater samples for radiocaesium analysis.

NARRATIVE

CLIONE sailed on the afternoon tide of 7 April and proceeded southabout to the Irish Sea. At 16 stations between Lowestoft and the southern entrance to the Irish Sea (Fig 1), 50 litre samples of surface seawater were collected and processed on board for determination of the ^{134}Cs and ^{137}Cs concentrations.

Seawater sampling commenced in the Irish Sea (Fig 2) at 0100h on 10 April sampling surface seawater from the ships clean seawater supply and nearbottom seawater using 30 litre Niskin bottles. The grid of stations in the Irish Sea was completed by 0050h 15 April. CLIONE then worked stations through the Minch, docking at 1000h 16 April in Stornoway, to take on water. CLIONE sailed at 0830h 17 April to work the stations to the north and west of the Hebrides. During the early hours of 19 April worsening weather conditions caused the abandonment of two inshore stations on the track between $57^{\circ}30'N$ and $57^{\circ}N$ and in strong winds CLIONE sailed south sampling surface seawater until the weather moderated allowing subsurface sampling to be resumed at $55^{\circ}30'N$ $09^{\circ}W$. CLIONE continued working the grid and docked in Stranraer at 0950h 20 April.

RESULTS

With the exception of the leg of the grid to the west of the Hebrides where 2 stations were abandoned completely and a further 2 were reduced to surface samples only, all the planned work was completed.

The following samples were collected and processed on board for subsequent analysis at Lowestoft.

AREA	No of Stations Worked	No of samples processed
On passage to Irish Sea	16	16
Irish Sea	72	101
West of Scotland	28	60

A K Steele
28 April 1987

SEEN IN DRAFT: G Sinclair
R C Newrick

INITIALLED: HWH

DISTRIBUTION:

Basic List +

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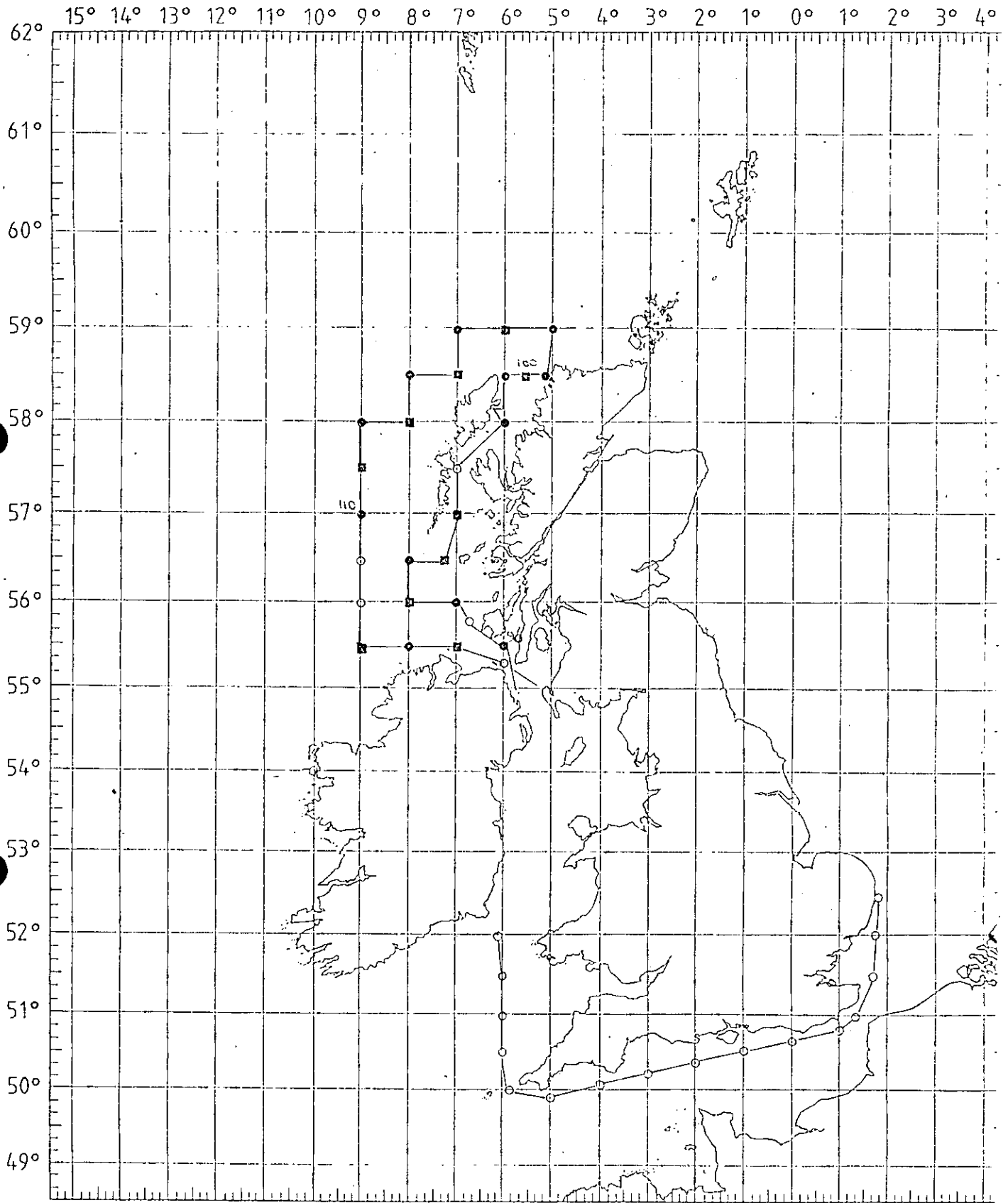
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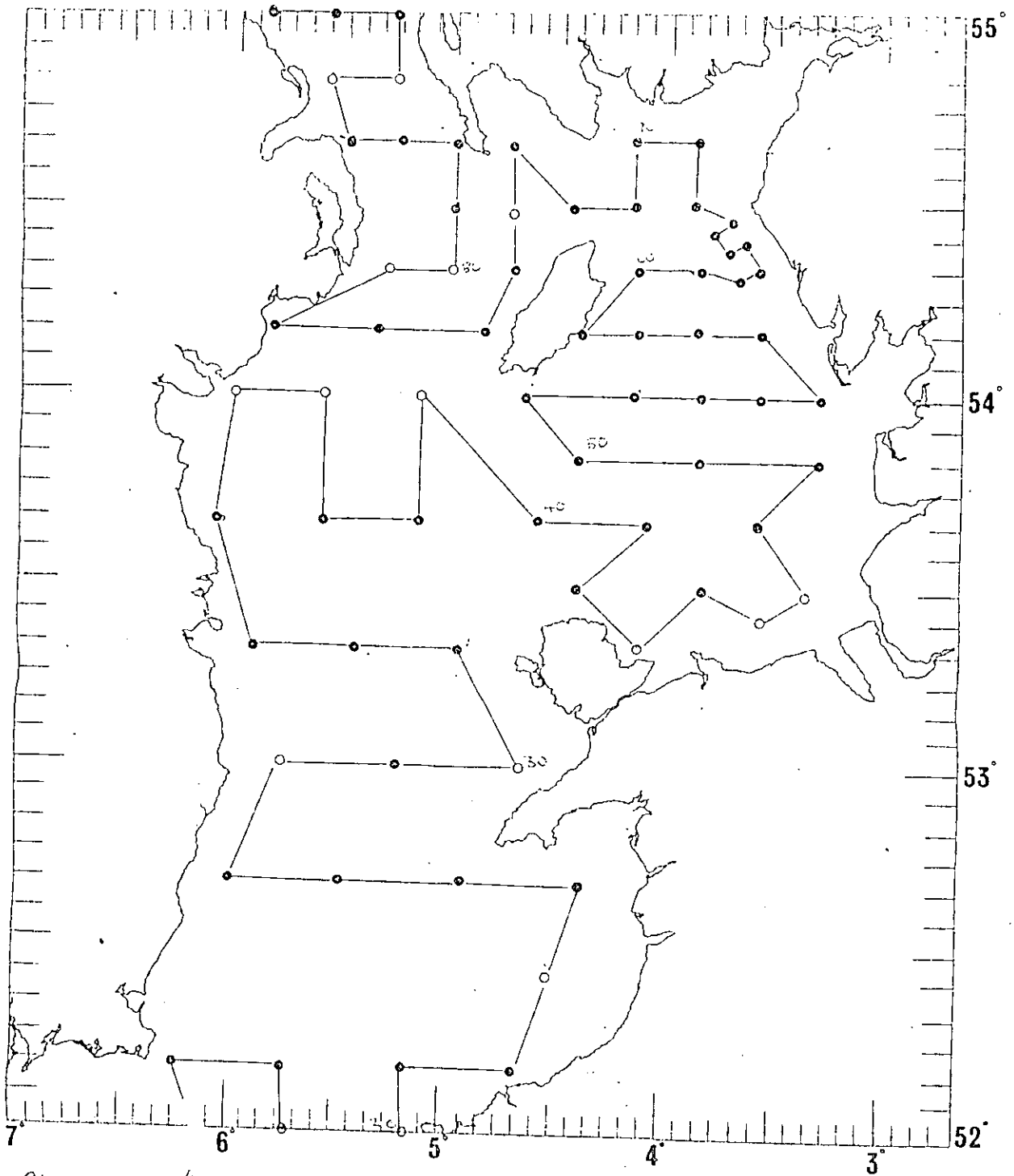
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Fig. 1



Clione Sa/87 Cruise Track

- Surface Water Sample
- " + near-bottom water sample
- " + midwater + near-bottom water sample



Clone 5a/37

Cruise track

○ surface water sample

79-103

● " " near-bottom water sample