

SW

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

REPORT: RV CIROLANA: Cruise 8

STAFF

S J Lockwood
D S Tungate
A R Folkard
R Carter
P Lawton
M E Cooper (Chief Scientist Office)
G Ngesa)
S Njambu) EAMFRO
J Molloy (Irish Fisheries Department)

DURATION

Left Grimsby 1430 h 12 July
Arrived Grimsby 0200 h 27 July

LOCALITY

Porcupine Bank, Celtic Sea, Bay of Biscay

AIMS

1. To carry out mackerel egg and larval survey.
2. To identify fish concentrations by trawling.
3. To bring back live mackerel eggs (Dr Thompson).
4. To incubate mackerel eggs over the temperature range 15-25°C.
5. To collect and deep freeze fish specimens for fish identification courses (Mr Blacker).
6. To collect and preserve fish hearts for ageing studies (Dr Walker).
7. To test auto analyser and HIAC particle counter.

NARRATIVE

Staff joined the ship at Grimsby and CIROLANA sailed at 1430 GMT on 12 July. The ship steamed from Grimsby to Porcupine Bank via Ronaldsay and water samples for Mr Steele were collected at $\frac{1}{2}$ degree intervals en passage. The survey commenced with a Granton trawl haul north east of Porcupine Bank (Figure 1) on 15 July and the first TTN station was completed before midnight the same day. The TTN survey continued uninterrupted, apart from two further trawl hauls, until it was completed at 0320 25 July. One further trawl haul was made on the steam up the Channel, off Start Point. CIROLANA docked at Grimsby 0200 h 27 July.

RESULTS

1. A total of 84 TTN stations were worked on a grid covering from Porcupine Bank in the north, 54°15'N, to southern Biscay, 44°45'N, in the south.

In the vicinity of Porcupine Bank there was a severe clogging problem associated with salps, this was overcome by changing from a 16" to 12" opening nose core.

2. Three trawl hauls were made during the survey, once in the north, in the Celtic Sea, and in central Biscay. Only the haul made north of Porcupine Bank included mackerel, they were predominantly spents and none were running. Otoliths were taken from all 38 mackerel caught. The southernmost haul contained predominantly small blue-whiting 15-20 cm. One large specimen in fine condition was frozen for Mr Jenner. One further haul made in the Channel when mackerel were caught but no running fish were found.
3. No running fish were caught.
4. The incubation work was not possible as no running mackerel were caught.
5. Several bags of mixed small gadoids were frozen for Dr Itun Han to feed turbot, and for Mr Blacker's fish identification course. Several specimens of other fish were also frozen for Mr Blacker.
6. Hearts were taken from large hake, cod, coley, scad and Mediterranean scad for Dr Walker.
7. The autoanalyser and HIAC particle counter both worked well.

MISCELLANEOUS

Twenty five 25 l water samples of seawater for radio caesium analysis were collected for Mr Steele.

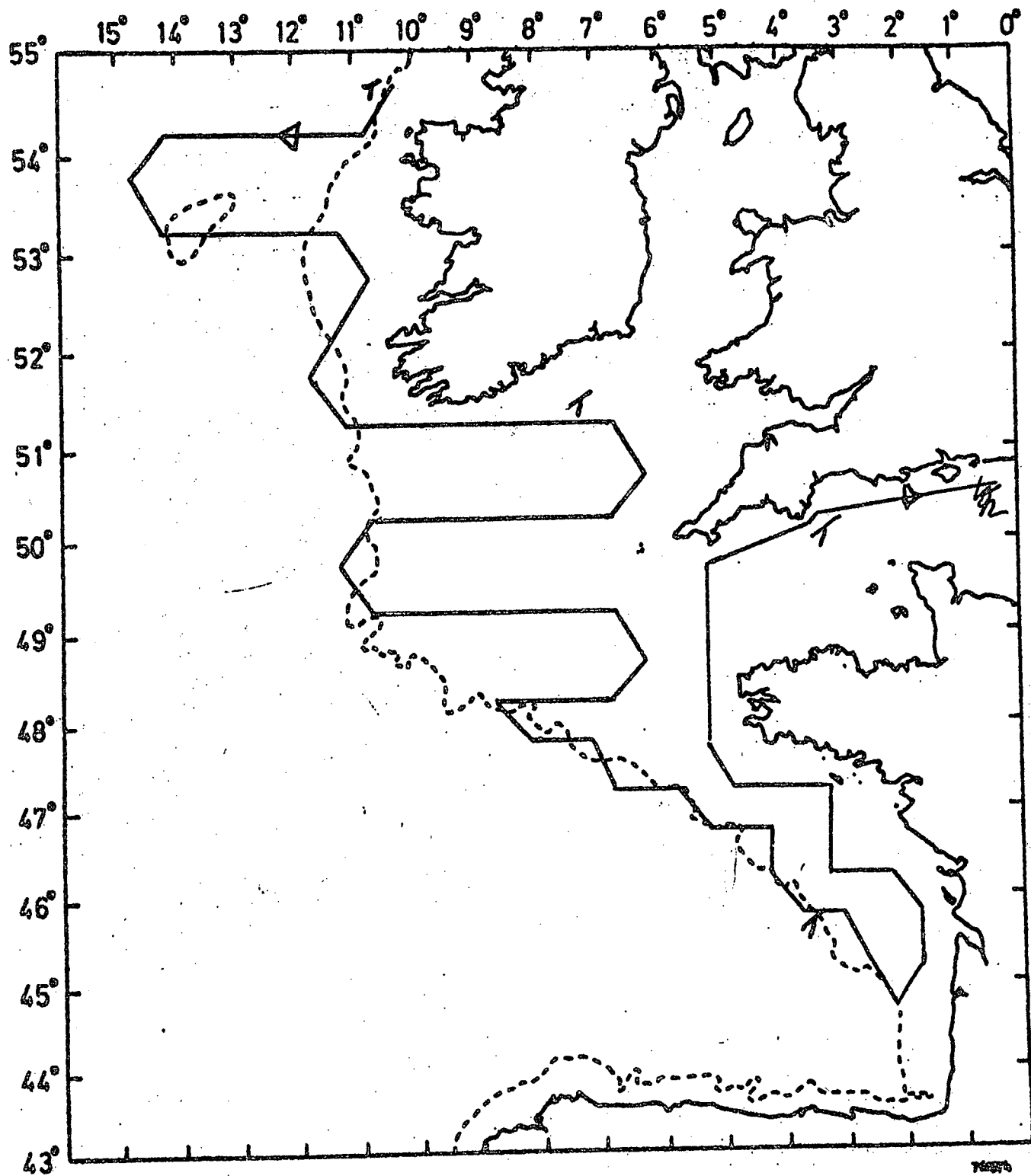
Stephen Lockwood
29 July 1977

INITIALLED: DHC

SEEN IN DRAFT: THF
EWP

DISTRIBUTION: Basic list +

S J Lockwood
D S Tungate
A R Folkard
R Carter
P Lawton
M E Cooper (Chief Scientist Office)
G Ngesa)
S Njambu) EAMFRO
J Molloy (Irish Fisheries Department)



CIROLANA CR. 8/77

SURVEY TRACK
 T TRAWL STATIONS