

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

1972-RESEARCH VESSEL PROGRAMME

REPORT: RV CLIONE: CRUISE 8

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

STAFF

T Williams
P O Johnson
P D Wallace
C L Whiting (1-16)
M Macdonald
A W Watson
C Kine (18-28)

DURATION

Left Lowestoft 1045 h 1 June

Arrived Lowestoft 0930 h 28 June

(All times are Greenwich Mean Time)

AIMS

1. To carry out a survey of the 0-group cod in the southern and central North Sea using either the 800 mesh Engel trawl or the large Boothbay net.
2. To determine the distribution and abundance of pelagic fish eggs and larvae in the southern and central North Sea using a Tin Tow Net (TTN).

NARRATIVE

CLIONE sailed from Lowestoft at 1045 h 1 June and steamed to IJmuiden, stopping en route to carry out a series of free flow hauls with the Tin Tow Net. An attempt was made to carry out a calibration of the Boothbay net using the acoustic link but the unstable depth readings obtained made this impossible and it was decided to carry out the work later in deeper water using the headline transducer.

CLIONE docked at IJmuiden at 0630 h 2 June. The recorder that had been loaned to CORELLA was returned to the IJmuiden Laboratory and the results of the Dutch 0-group cod surveys were discussed with Dr Daan.

CLIONE sailed from IJmuiden at 1200 h 2 June and steamed north to commence the sampling grid off Aberdeen at 0330 h 4 June. The Boothbay net was successfully calibrated on passage using the headline transducer.

In good weather conditions work continued without any interruption until 16 June, 125 stations being completed, the last of these in the Wash at Well Deep at 0030 h. CLIONE then steamed to Lowestoft for a mid-cruise break arriving at 1115 h.

The second half of the cruise commenced at 1430 h 18 June when CLIONE left Lowestoft and steamed to the Dogger Bank to continue the grid of Hydrographic, TTN and Boothbay net stations. Work started at 0900 h 19 June and with the exception of two short periods of bad weather between 1200-2200 h 21 June and 0930-1530 h 23 June, when it was necessary to dodge, continued until 2130 h 27 June.

A grid covering the whole area between 57°08'N and 52°08'N was completed. In the Flamborough Head area, where the heaviest concentration of 0-group cod were found, additional stations were worked using the Boothbay net at varying depths and the Engel trawl to test its efficiency in catching the small cod.

A total of 193 TTN, 148 Boothbay and 2 Engel hauls were made at 212 stations, and 91 bottom temperature and salinity observations were taken.

CLIONE returned to Lowestoft a day early in order to obtain medical attention for a crew member with an injured arm docking at 0930 h 28 June.

RESULTS

1. The 0-group cod survey was successfully completed. The main concentration was found off Flamborough Head with other smaller groups off the north coast of Denmark, the Scottish coast below Aberdeen and 100 miles NE of the Tyne.
2. The TTN survey was completed as planned, together with a continuous echo sounder record of the area covered.
3. Hydrographic observations were taken every 30 miles during the cruise in accordance with Standing Instructions.

T Williams
4 July 1972

SEEN IN DRAFT: James R French (Master)

A H Button (Fishing Skipper)

INITIALLED: AJL

DISTRIBUTION:

Basic List

T Williams
P O Johnson
P D Wallace
C L Whiting
M Macdonald
A W Watson
C Kine

4° 3° 2° 1° 0 1° 2° 3° 4° 5° 6° 7° 8° 9° 10°

62°

62°

60°

TRACK CHART

CLIONE 8/72

1-28 JUNE

TTN.-BOOTHBAY-HYDRO GRID

55°

55°

50°

50°

----- 100 fms.

4011

1° 2° 3° 4° 5° 6° 7° 8° 9° 10°

