

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

1970 RESEARCH VESSEL PROGRAMME

REPORT: RV TELLINA: CRUISE 10

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

STAFF

A J D Riley        )  
  A J Jones        ) 28 September - 3 October

B S J Lockwood    )  
  J M Last         ) 4 - 11 October

DURATION

Left Lowestoft 1000 hours, 28 September

Arrived Lowestoft 0845 hours, 11 October

All times are British Standard Time

LOCALITY

English East Coast: Flamborough Head to Berwick

AIMS

1. Survey of 0-group stages of fish, particularly flatfish, using standard 2 and 4 m beam trawls in inshore areas.
2. Survey for fish eggs and larvae using 12' high speed tow net.
3. To tag juvenile plaice, including large 0-group, in order to study their movement away from the nursery grounds in Filey Bay.

NARRATIVE

Part A

The ship left Lowestoft at 1000 hours, 28 September and steamed north docking in Blyth in the afternoon of the 29th. At 0500 hours, 30 September, the ship sailed north intending to reach Berwick on Tweed. However, the weather prevented work north of the Farne Islands and Alnmouth Bay, Druridge Bay and Blyth Bay were sampled with the 2 m beam trawl and a high speed tow net sample was taken near Druridge Bay for examination for fish eggs and larvae.

Winds of force 8-10 prevented work between 1 and 3 October although push netting was possible on protected beaches using the 1½ m Riley push net. In the afternoon of 3 October a north-west gale and heavy swell; the ship sailed for Hartlepool, docking at 1600 hours.

## RESULTS

### Part A

1. The survey for 0-group fish was not completed and will be supplemented by samples taken later by local boats.
2. Satisfactory samples of plankton for analysis for fish eggs and larvae were obtained.

J D Riley

## NARRATIVE

### Part B

The staff changed over at Hartlepool on the evening of 3 October. TELLINA left Hartlepool at 0750 hours the next day and completed a standard 2 m beam trawl tow in Tees Bay proceeding to Scarborough, entering harbour at 1700 hours. Winds of force 8-10 prevented work on 5 and 6 October. On the 7th TELLINA commenced work in Filey Bay which included a 2 m beam trawl standard tow and trawling for small plaice with the 4 m beam trawl. In the afternoon catching of the small plaice for tagging was done with the 8 m otter trawl. Catching and tagging were continued on 8, 9 and 10 October. Unfavourable weather forecast on 10 October caused the cruise to be cut short and TELLINA left for Lowestoft and during the afternoon of 10 October a 30 cm high speed tow net sample was taken near Filey; live plankton was collected for Mrs B Thompson and two stations at Bridlington and Withernsea were sampled with the 2 m beam trawl. TELLINA entered Hamilton Dock, Lowestoft, at 0845 hours, 11 October.

## RESULTS

### Part B

1. The 2 m beam trawl survey (Aim 1) was satisfactorily completed except at Withernsea, where the ground was found to be very rough everywhere and the beam trawl codend was torn out.
2. The live plankton was lost as TELLINA turned across the sea to enter Lowestoft harbour.
3. Over 70 0-group cod were collected on 7-8 October and returned by road to the laboratory for Mr V Bye.
4. The trawling in Filey Bay for juvenile and immature plaice for tagging was most successful, over 1000 being tagged, comprising 8-10 cm plaice 206, 10.5-15 cm 269, 15.5-20 cm 329, 20.5-25 cm 183, 25.5-30 cm 38 plaice.

S J Lockwood

SEEN IN DRAFT WB

INITIALLED AJL

John D Riley  
19 October 1970

DISTRIBUTION

Basic List plus the following

Mr A J Jones  
Mr S J Lockwood  
Mr J M Last