

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

JOINT REPORT: RV TELLINA: CRUISE 5
COBLE FAITHFUL: CRUISE 4

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

STAFF

S J Lockwood
J H Nichols
N C Avery (Student)

DURATION

18 May - 2 June

All times are Greenwich Mean Time

LOCALITY

Scarborough to Flamborough

AIMS

1. To collect surface and vertical oblique plankton samples.
2. To make comparative hauls with a pair of 20" high speed plankton samplers, (a) both towed by TELLINA, simultaneously; (b) towed by TELLINA and FAITHFUL simultaneously.
3. To sample the plaice larvae with both 20" TTN and 4 m beam trawl over two or more tidal cycles.
4. To trawl for juvenile plaice tagged in November 1972, and tag juvenile plaice.
5. To catch larval plaice over 24 hours at regular intervals for feeding studies.
6. To release sea bed drifters in three positions off Filey and one off Scarborough.
7. To collect plaice eggs and return live to Lowestoft for Mr Avery.
8. To collect a water sample for Dr Reynolds.

NARRATIVE

TELLINA sailed at 0845 h, 18 May, and arrived at Scarborough at 0300 h, 19 May. The plankton sampling gear was put aboard and the monthly plankton survey made the same day. On 20 and 21 May comparisons were made between two unencased 20" TTN using 8", 10" and 14" nose cones. The 22 and 23 May were spent trawling and tagging juvenile plaice. Poor weather conditions prevented work on 24, 26, 27, and 30 May. On 25, 29 and 31 May TELLINA worked with the FAITHFUL, the former towed a 20" TTN and the latter towed a 4 m beam trawl. Both were towed over the same ground once an hour for a tidal cycle. A joint programme was also

worked on 28 May, both vessels towing 20" TTNs to compare the catch rates of each. Twelve tows were made before the towing warp used aboard FAITHFUL parted and the TTN lost. The position was marked by a dahn and TELLINA spent two hours trawling over the area, but did not succeed in retrieving the TTN. On the final day of the cruise, 1 June, some of the plankton stations worked on 19 May were repeated, and a beam trawl survey was carried out in Filey Bay. At 1430 h, FAITHFUL came alongside TELLINA, some sampling gear was put aboard and returned to Scarborough with Mr Lockwood and Mr Nichols. TELLINA then sailed for Lowestoft and docked at 0600 h, 2 June. Mr Nichols and Mr Lockwood returned by road and arrived shortly before midnight on 1 June.

RESULTS

1. 24 plankton samples were taken at the standard stations between Scarborough and Flamborough.
2. 25 tows were made by TELLINA with the 20" TTN strapped together.
3. Samples were taken by both 20" TTN and 4 m beam trawl at hourly intervals over a tidal cycle on three occasions.
4. 211 juvenile plaice were tagged and released. One fish tagged in 1971 was recaptured.
5. Sampling for feeding studies was not carried out.
6. Four batches of 25 seabed drifters were released on spring and neap tides at positions off Scarborough and Filey. Some have already been returned.
7. No plaice eggs were seen in the plankton.
8. A water sample was taken off Scarborough for Dr Reynolds.

Stephen J Lockwood

5 June 1972

SEEN IN DRAFT: WB

INITIALLED: AJL

DISTRIBUTION

Basic list

Mr Harding

Mr Lockwood

Mr Tungate

Mr Avery

Mr Nichols

Mr W. John, 7 Hindle Drive, Filey