

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

1971 RESEARCH VESSEL PROGRAMME

REPORT: RV TELLINA: CRUISE 6

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

STAFF

S J Lockwood
L Emerson
J Woollorton) 5-9 and 17-19 May
Mrs M Boon) 5-9 May

DURATION

Left Lowestoft 1000 hours 5 May

Left Scarborough 1245 hours 15 May

All times are British Standard Time

LOCALITY

Filey Bay, Yorkshire

AIMS

1. To make current measurements with Plessey recording current meters at four stations.
2. To carry out diffusion and current studies.
3. To release sea bed drifters at 12 stations.
4. To carry out a plaice larval survey with 20" unencased high speed plankton sampler.
5. To trawl for young plaice tagged in 1970.
6. To collect plankton samples at five stations between Lowestoft and Filey with 12" high speed plankton sampler (for Mr Riley)

NARRATIVE

TELLINA sailed from Lowestoft at 1000 hours 5 May and took plankton samples at Winterton Ness, Blakeney, Ingomells Point and Bridlington Bay en passage to Scarborough. TELLINA docked Scarborough 0400 hours 6 May. Current meter rigs were made ready in harbour and were put in position during the afternoon. On 7 and 8 May Rhodamine B was released and tracked in Filey Bay. Three of the four Plessey meters were recovered on 9 May and trawling was carried out. The 20" plankton sampler was calibrated on 10 May and a grid worked from Scarborough to Flamborough. Further samples were taken in Filey Bay on 11 May and also 150 Woodhead sea bed drifters were released in the bay. On 12 May D.R.C.M. readings were taken over one

tidal cycle at two of the positions where Plessey meters had been moored. Conditions on 13 and 14 May were unsuitable for any work to be carried out, TELLINA remained in Scarborough harbour. Trawling and plankton sampling were carried out on 15-18 May. The one remaining current meter was recovered on 18 May. TELLINA returned to Scarborough at 1200 hours where the current meter gear was unloaded for return to Lowestoft by road. The scientific staff disembarked at Scarborough and TELLINA sailed for Lowestoft at 1245 hours.

RESULTS

Plessey recording current meters were moored at four positions in Filey Bay. Three were recovered after 3 days, one remained in position for 12 days. No difficulties were encountered during mooring or recovery. Rhodamine released in the bay at low water was tracked until it went among crab pot dahns by Filey Brig. Rhodamine released at high water was tracked as it went out of the bay and north past Filey Brig buoy.

Trawling was carried out with both on 8 fathom otter trawl and a 2 metre beam trawl. No tagged fish were recaptured. The catches did include large numbers of small (less than 15 cm) gadoids, mainly whiting. Beam trawl catches included small numbers of metamorphosing plaice.

The 20" plankton sampler was worked successfully, a total of 30 samples being taken. These often contained fish eggs but very few fish larvae. A preliminary inspection did not reveal any plaice larvae.

Of the 150 sea bed drifters released two have been returned already, both from positions north of Filey.

Stephen J Lockwood
29.6.71

Seen in draft: WB (Master)

Initialled: AJL

Distribution

Basic List

- S J Lockwood (2)
- L Emerson
- J Woollorton
- Mrs M Boon