

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

1971 RESEARCH VESSEL PROGRAMME

REPORT: R V NUCELLA: CRUISE: EAST ANGLIAN COAST

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

STAFF:

J Wooltorton
A R Folkard } Part time
J W Read }

DURATION:

18 - 29 October

LOCALITY:

East Anglian coast

AIMS:

- 1 To lay and recover two inshore current meter rigs in order to complete an array of five rigs off the Caister-Southwold coast.
- 2 To survey a number of releases of Rhodamine B made by TELLINA.
- 3 To measure the salinity and temperature distributions and to make measurements of water velocity using Direct Reading Current Meters in order to supplement the data from the moored rigs.

NARRATIVE

Sea conditions on 18 and 19 October made work impossible.

On 20 October NUCELLA left Lowestoft and proceeded south but by the time she had reached the Barnard shoal it was clear that sea conditions were again too bad for work to proceed. NUCELLA returned to Lowestoft. On 21 October as TELLINA was making a release of Rhodamine B the vertical distribution of velocity was measured and samples taken for salinity and suspended load near the Rhodamine release position. NUCELLA then joined TELLINA in surveying the patch of Rhodamine B, following it for the duration of the ebb tide. Later that day as sea conditions were worsening NUCELLA returned to Lowestoft arriving at 1815 hours. NUCELLA remained in Lowestoft on 22 October because of bad weather but by the morning of 23 October this had improved enough for an inshore current meter rig to be laid off Southwold. Measurements of the vertical distribution of salinity and suspended load were then taken near the SE Newcome Buoy before NUCELLA joined TELLINA in surveying a Rhodamine B patch that had been released earlier that day. On 25 October a grid of stations was worked to measure the horizontal salinity distribution off Benacre. Conditions again prevented work on the next three days. On 29 October NUCELLA recovered the inshore current meter rig that had been laid just north of Southwold. After this, whilst TELLINA made diffusion measurements, NUCELLA measured a series of vertical velocity profiles in the same area. NUCELLA returned to Lowestoft at 1730 hours, the gear being removed the next day.

RESULTS

- 1 One inshore moored current meter rig was laid and recovered.
- 2 Two releases of Rhodamine B were surveyed.
- 3 Measurements of salinity distribution and of the water velocity were obtained to supplement the diffusion measurements.

J Wooltorton
24 November 1971

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