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

1983 RESEARCH VESSEL PROGRAMME

REPORT: RV CLIONE: CRUISE 6

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

STAFF:

- A R Folkard (SIC)
- K J Medler
- D J Allington
- R J Chapman
- S Leigh-Pearson

DURATION:

Left Lowestoft 0900 h 27 April
Arrived Lowestoft 0530 h 6 May

(All times are Greenwich Mean Time)

LOCALITY:

Tyne offshore

AIMS:

1. To carry out a water quality survey of the offshore Tyne area from Blyth to Seaham to assess the impact of sewage dumping.
2. To occupy 3 anchor stations close to the dump site and measure water quality and currents over 13 hour periods.
3. To occupy an offshore anchor station in approximately 50 metres of water within the dumping area as for aim 2.
4. If possible to measure water quality after a dump by the Northumbrian Water Authority.

NARRATIVE:

CLIONE sailed from Lowestoft at 0900 h 27 April and reached the Tyne area by breakfast on 28 April. With north easterly winds of 20-25 kts the ship dodged off the Tyne for 24 hours. By the morning of 29 April weather conditions had improved and CLIONE anchored in the Tyne anchorage before completing the first anchor station by 2100 h. The second anchor station was completed by 2030 h 30 April. On 1 May, with a weather forecast of freshening north to north easterly winds it was decided to steam around the grid. The first station was worked off Blyth at 0749 h 1 May and work continued until 1733 h when 17 stations had been completed. The grid was continued on 2 May and completed off Seaham Harbour by 1724 h. CLIONE dodged overnight by which time the wind and swell had moderated. The ship anchored on the dump site and the anchor station was completed by 2100 h 3 May when CLIONE moved to the anchor station off Souther Point. The final anchor station was completed by 2100 h 4 May.

With work in the area completed, stations for collection of water for Caesium analysis and further CTD calibration were made on the homeward passage.

CLIONE docked in Lowestoft at 0530 h 6 May.

RESULTS:

Aims 1-3 were completed but the Northumbrian Water Authority vessel was not sighted until the morning of 4 May when an anchor station was being worked some miles from the dump site. Aim 4 was thus not completed. All instrumentation worked well. The shallow water CTD has proved to be an excellent instrument for this type of survey and it should be possible to produce a good calibration from the data obtained on the cruise.

(WU) ...
A R Folkard
(Scientist-in-Charge)
10 May 1983

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