

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

1977 RESEARCH VESSEL PROGRAMME

REPORT: RV CORELLA: CRUISE 6
(PROVISIONAL: Not to be quoted without prior reference to the author)

STAFF

D S Tungate
J Ramster
D Lawrence (from 19 April)
B Riches
D Hughes
D Northey (Northey International Systems) to 19 April

DURATION

Left Lowestoft 1600h 13 April
Arrived Lowestoft 1200h 25 April

LOCALITY

Southern North Sea

AIMS

1. To test the H.I.A.C. particle counter and new biological instrumentation.
2. To investigate the variations in biological and physical phenomena in one and two dimension and at different depths in non-frontal systems of the Central Southern North Sea.
3. Recover lost current meters if time permits.

NARRATIVE

CORELLA sailed from Lowestoft at 1600h G.M.T. 13 April. With strong to gale force NW winds forecast, CORELLA proceeded to a position off Southwold and all the instruments were checked and several faults rectified. The weather moderated during the night of 14 April and CORELLA steamed to the working area and started surveying. CORELLA docked at Lowestoft at 0830h 19 April to land Mr Northey and embark Mr Lawrence, sailing again at 2100h 19 April. Work continued until 22 April when NW gales forced CORELLA to seek shelter at Texel. Continuing gales prevented any further patch studies and on 25 April CORELLA sailed for Lowestoft arriving at 1200h.

RESULTS

1. The H.I.A.C. particle counter performed well both in the discrete and on line mode. A total of 567 samples were analysed. The new data logger was not compatible with some of the other instrumentation, so producing a loading effect. Mr Riches rectified this towards the end of the cruise and some results were recorded on tape.

2. Eleven experiments were made to investigate the variations in biological and physical phenomena in non-frontal systems. Chlorophyll was high over most of the area and relatively uniform with no patches. Water was pumped from a depth of 20 metres with the ship steaming at 5 knots. Particle size chlorophyll and temperature were recorded simultaneously from surface and depth.
3. There was not enough time to search for the lost current meters.

D S Tungate - NIC
23 May 1977

SEEN IN DRAFT: J E M Balfour

INITIALLED: AJL

DISTRIBUTION:

Basic List

D S Tungate
J Ramster
D Lawrence
B Riches
D Hughes
D Northey