

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

1971 RESEARCH VESSEL PROGRAMME

REPORT: R V CORELLA: CRUISE 3

STAFF: T Wyatt
P Scholes
T J Hulme
M Macdonald
D Levi

DURATION:

Sailed from Lowestoft at 1700 hours on 5 February
Arrived at Lowestoft at 1100 hours on 14 February

LOCALITY:

English Channel and North Sea

- AIMS:
1. To continue routine plankton surveys in the eastern Channel and Southern Bight.
 2. To monitor turbidity and chlorophyll A in surface waters using fluorometers.
 3. To collect chlorophyll samples for spectrophotometric analysis and comparison with fluorometer results.

NARRATIVE:

CORELLA sailed from Lowestoft at 1700 hours on 5 February, and arrived in Lyme Bay the following evening, where sampling began. A total of 50 stations was occupied in the English Channel, covering that part east of $4^{\circ}W$ and north of $40^{\circ}50' N$. On the second day of sampling the ship's log broke down, but sampling could be continued thanks to fine weather.

After a brief call at Boulogne, 32 stations were occupied in the Southern Bight, before picking up a new log at Great Yarmouth on 11 February. D Levi was put ashore at this time. After leaving Yarmouth, a further 14 stations were occupied in worsening weather (completing the grid to $52^{\circ}37\frac{1}{2}'N$), until we were finally forced to dodge in a south-westerly gale. We sought shelter in Yarmouth Roads on the night of 13 February, and since worse conditions were forecast next morning, returned to Lowestoft on the morning tide.

RESULTS:

1. Continuous records of temperature, transparency and chlorophyll A were obtained throughout the cruise.
2. Water samples and plankton samples were collected at 97 stations, of which 50 were in the English Channel and 47 in the Southern Bight.
3. Chlorophyll samples were collected at 55 of these stations.

T Wyatt
18 February 1971

Seen in draft: W Craig (Master)

Approved: H A C

Distribution: Basic List Mr Hulme
Mr Wyatt Mr Macdonald
Mr Scholes Mr Levi