

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

1973 RESEARCH VESSEL PROGRAMME

REPORT: R V CORELLA: CRUISE 10-73

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

STAFF

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DURATION

26 June - 2 July

LOCALITY

North Sea

AIMS

1. To carry out an inshore survey of the English East Coast for fish eggs and larvae using a 50 cm masked High Speed plankton sampler.
2. To collect live copepods for laboratory use.
3. To collect phytoplankton samples for Dr Dodge (Birkbeck College London)
4. To test a new high speed pelagic young fish trawl.

NARRATIVE

The ship left Lowestoft at 1600 hours, 26 June and proceeded to carry out the southern section of the inshore survey. On the way north the opportunity to repair defective electronic equipment was taken, staff coming out to the CORELLA in a small boat when she was lying off Great Yarmouth on the morning of 28 June.

The northern section plankton survey was completed at 1100h 1 July. Gear trials were then carried out in the Wash area. During the passage to Lowestoft the zoo - and phytoplankton samples were obtained. CORELLA docked at 0930 h 2 July.

RESULTS

1. 54 samples of inshore plankton were taken along the east coast. This completes the ~~three~~ cruises in the inshore sampling programme for 1973. The densest zooplankton (X 60 mpi) was obtained in the Thames and Humber estuaries. One sample taken off Gravesend had a settled volume of 2.7 litres from about 90 m³ of water, with water conditions of 21.4°C 18.5‰ salinity, and about 25% oxygen saturation.
2. Live copepods were collected in the Dowsing channel for Mrs B Thompson
3. Phytoplankton samples were taken 10 mls east of Great Yarmouth for Dr Dodge of Birkbeck College London.

4. An experimental midwater trawl fitted to a $1m^2$ frame and made of knitted fabric was tested in the Lynn Deepes. The net behaved well but failed to catch fish when shot on light traces, when used at 5 and 6 knots. At 7 knots the net was torn from the frame probably by water pressure alone.

SEEN IN DRAFT J E B

John D Riley

INITIALLED A J L

11 July 1973

DISTRIBUTION

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