

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

1979 RESEARCH VESSEL PROGRAMME

REPORT: RV CORELLA: CRUISE 5

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

STAFF

D S Tungate  
J Last  
P Witthames  
P Walker  
P Hudson

DURATION

Left Lowestoft 1030 h 28 March  
Arrived Lowestoft 0600 h 6 April

LOCALITY

North Sea

AIMS

1. To carry out an acoustic survey to estimate predatory fish in a cod spawning area.
2. To identify the fish by trawling.
3. To undertake a plankton survey of a cod spawning area and collect cod larvae for otolith and feeding studies.
4. To measure temperature, chlorophyll, turbidity, salinity and particle size.
5. To collect Euphausiids for Dr Jamieson.
6. To collect live plaice for Mr Scholes.

NARRATIVE

RV CORELLA sailed from Lowestoft at 1030 h 28 March and after a delay of seven hours spent in Yarmouth Roads owing to weather, course was set for the southern leg of the acoustic survey grid. The survey started at 2300 h 28 March and continued until 0730 h 2 April. After rigging the stern ramp for plankton sampling the larval cod survey commenced at 1230 h 2 April and continued until 0940 h 5 April. Course was then set for Smiths Knoll, fishing commenced at 1520 h and continued until 2000 h when course was set for Lowestoft. CORELLA docked at 0600 h 6 April.

RESULTS

1. A total of 440 miles was steamed with the acoustic counting and the towed transducer.

2. Hauls were made with the Engel 800 midwater trawl to identify the composition of fish traces. The headline transducer cable parted on three of the hauls.
3. A total of 29 Bongo net hauls were made to determine the concentration of cod larvae and their food organisms. A 24 hour station was worked in an area with high concentrations of cod larvae to study feeding. Cod and plaice larvae were collected for otolith and feeding studies.
4. Temperature, chlorophyll, turbidity, salinity and particle size were monitored continuously along the ship's track.
5. Species of Euphausiids were collected at a number of stations on the grid for Dr Jamieson.
6. Four hauls were made at Smiths Knoll to collect live plaice for laboratory use. No plaice were caught with the Engel 800 midwater trawl.

D S Tungate  
10 April 1979

SEEN IN DRAFT: GS, RCN  
INITIALLED: AJL  
DISTRIBUTION: Basic list +  
D S Tungate  
J Last  
P Witthames  
P Walker  
P Hudson

