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

1976 RESEARCH VESSEL PROGRAMME

REPORT: RV CLIONE: CRUISE 10

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

STAFF

J D Riley (NIC)
T Williams
C Humphreys
C Whiting
H Robinson (North Shields)
D Hyland (Fleetwood)

DURATION

Left Lowestoft 0830 h 11 June
Docked Lowestoft 1730 h 22 June
All times are Greenwich Mean Time

LOCALITY

North-east coast

AIMS

1. To test the new Lowestoft frame trawl for sampling 0- and 1-group gadoids and to compare it with the ICES young gadoid trawl.
2. To measure the distribution of 0- and 1-group gadoids between the Wash and Scottish border.
3. To sample and deep freeze organs of female plaice for Mr Birkett.
4. To collect fish for use for demonstration purposes on the Laboratory's Open Day.
5. To collect live brill and sandeels for laboratory use.

NARRATIVE

After testing and calibrating the Lowestoft frame trawl in Wash-Humber sea area CLIONE joined CORELLA off the Yorkshire coast at 0300 h 15 June and carried out comparative fishing trials of the frame trawl against the international young gadoid trawl as the vessels carried out the international young gadoid survey in tandem, up to the Scottish border. On the afternoon of 17 June CORELLA proceeded northwards to complete her part of the survey. CLIONE proceeded to an area off the Tyne where a concentration of young gadoids has been found. Further trials of the frame trawl were carried out and the trawl was then used to measure the vertical distribution of the young fish. On the way south on 19-20 June the distribution of the young gadoids close inshore was measured.

On 20-22 June Granton trawling was carried out on the Mablethorpe, Well Hole and Outer Dowsing shoals for specimen and live fish.

RESULTS

1. The new Lowestoft frame trawl could not safely be used at 5 knots and the standard hauling speed was reduced to 3 knots. The 0-group gadoids this year were very small with a mode of 1 cm overall length and further testing of the larger pelagic stages will be carried out. Sufficient paired samples were taken for a comparison of the frame trawl and the young gadoid trawl to be made.
2. The highest concentrations of young gadoids off the north-east coast were in a water depth of about 40 m off Druridge Bay and the River Tyne, with a smaller patch off Scarborough. South of Flamborough Head numbers were low everywhere.
3. A satisfactory sample of deep frozen female plaice and their organs was collected mainly from the Well Hole area.
4. All the commercial fish taken during the fishing and not required for live and specimen fish were gutted and deep frozen for use on the Laboratory's Open Day.
5. Only two turbot and two brill were caught, three of these were brought back to the Laboratory as breeding stock for FCU.
6. Live zooplankton (chiefly copepods) was collected for Mrs Thompson for experimental and demonstration use.
7. Filtered phytoplankton samples were collected and deep frozen for Dr Reynolds where possible, in the area of the north-east coast plankton sampling grid of stations.
8. Live sandeels were collected on the Outer Dowsing shoal for Mr Millner.

J D Riley

6 July 1976

SEEN IN DRAFT

JRF

GFL

INITIALLED

AJL

DISTRIBUTION

Basic list

J D Riley

T Williams

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