

Mr. J. J. J.

MINISTRY OF AGRICULTURE FISHERIES AND FOOD
FISHERIES LABORATORY LOWESTOFT SUFFOLK ENGLAND

1973 RESEARCH VESSEL PROGRAMME

REPORT R V CORELLA: CRUISE 16

STAFF

| | |
|---------------|------------------------|
| B C Mumford | } = 7-19 November 1973 |
| V J Bye | |
| Mrs M J Boon | |
| Miss R Harrod | |
| B H Holford | } = 6-7 November |
| M R Vince | |
| J Henderson | |

LOCALITY

Southern North Sea

AIMS

1. To determine the reactions of plaice to a Granton trawl by extending the series of experiments carried out on cruises CORELLA 13 and 18/1971, 15, 16, 17 and 18/1972 and 3 and 12/1973.
2. Capture of live dabs for use in laboratory experiments.
3. Collection of fish gonads and brains for histological examination.
4. Collection of fish pineal, pituitary and hypothalamus glands for hormone analysis.
5. Collection of phytoplankton sample for Dr Dodge (London University).
6. Collection of live plaice for future sector scanning cruises.

NARRATIVE

CORELLA sailed from Lowestoft at 1700 h 6 November with CLIONE and proceeded to the position of current meter station IC. Arriving at 2200 h the vessel dodged until 0045 h when increasing winds made recovery of the meters impossible and CORELLA returned to Yarmouth Roads to land the Diving Team and embark Mrs Boon and Miss Harrod, leaving again at 2200 h and steaming overnight to join CLIONE in the Brown Bank area.

A successful attack was made on an acoustic tagged plaice before further bad weather stopped work until the morning of 10 November when a further four attacks were made on a fish which was not recaptured. The following day was again unsuitable for working and CORELLA entered Ijmuiden at 1815 h where she remained until 0900 h 15 November when passage was made for a position off Sizewell Bank in Force 10 head winds.

Trawling commenced in this area at 0830 h 16 November and two trawl hauls were made before increasing winds forced CORELLA to seek shelter at anchor off Southwold. A further ten trawl hauls were made during the period 17-18 November

a sample of plankton was collected ten miles offshore on the evening of the 18th November before CORELLA again sought shelter in Yarmouth Roads. CORELLA docked at Lowestoft at 1415 h 19 November.

RESULTS

1. Five valid attacks were made on two acoustic tagged plaice.
- 2 + 3. No suitable dabs were caught during this cruise.
4. 400+ pineal and pituitary glands were collected from cod and whiting.
5. A sample of phytoplankton was obtained for Dr Dodge (London University).
6. No suitable plaice were caught for return alive to the laboratory.
7. In the Sizewell Bank area CORELLA was fishing in an area which has been fished for the past two months by inshore boats using long lines. A note was made of the incidence of cod showing recent hook wounds and a sample of these fish were frozen for return to the laboratory for further examination.

Seen in draft J Sinclair
C Snowling

B C Mumford
26.11.1973

INITIALLED A J L

DISTRIBUTION

Basic List

B C Mumford
V J Bye
Mrs M J Boon
Miss R Harrod

B H Holford
Mr Vince
J. Henderson