

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

REGISTRY

F/A 11/5  
114

1972 RESEARCH VESSEL PROGRAMME

REPORT: R V CORELLA: CRUISE 1

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

STAFF

V J Bye  
L Emerson  
P R Witthames  
C J Garrod

DURATION

Left Lowestoft 1130 h, 3 January

Arrived Lowestoft 1400 h, 8 January

All times are Greenwich Mean Time

LOCALITY

Southern North Sea

AIMS

1. To collect materials for studies on the pineal complex of cod.
2. To measure light transmission through fish skulls.
3. To collect ray parasites for Dr Kearn of UEA.
4. To record stomach contents and maturity stages of rays.

NARRATIVE

CORELLA proceeded to the northeast of Smith's Knoll and commenced trawling at 1615 h, 13 January. During 4-6 January we trawled in the Brown Ridges - West Mud Hole area and on 7 January worked just SSE of the Outer Gabbard Lightship.

RESULTS

1. Pineal glands and brains were collected from a size range of cod and prepared for light and electron microscopy. Some male cod were running and a few female cod had ovaries at stage V.
2. Some measurements were made on the spectral transmission of light through cod heads and the influence of the chromatophores on this transmission was assessed.
3. No Raja radiata were caught so the parasite required by Dr Kearn could not be collected.
4. Length, sex, stomach contents and state of maturity was recorded from 40 Raja montagui and 14 Raja clavata. No mature females were encountered.

5. Large plaice were preserved for Dr Walker for measurements on muscle proportions.
6. Cod, haddock, pout whiting, soles, lemon soles, dabs, flounders and turbot were preserved for Dr Walker for examination of muscle morphology.
7. One tumoured plaice and two cod with very bad erosions were preserved for Dr Shelton.
8. A variety of invertebrates were collected for Mr Scholes aquaria.
9. Large live cod and plaice were brought back for the hatchery and acoustic tag work.
10. 30 bags of small gadoids were frozen for fish food.
11. One French tagged cod was caught and re-released.

Victor Bye

10 January 1972

SEEN IN DRAFT: J E M Balfour (Master)  
C N Snowling (Fishing Skipper)

INITIALLED: AJL

DISTRIBUTION

Basic List

V J Bye

L Emerson

P R Witthames

C J Garrod