

MR *Salie*.

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

1974 RESEARCH VESSEL PROGRAMME

REPORT: R V CLIONE: CRUISE 8a/74

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

STAFF

P Scholes  
B Howell  
L Pearse  
M Htun Han (Burma)  
D Wright (Fleetwood)  
R Leppington-Clark (NERC)

DURATION

Left Lowestoft at 1030 h 10 June  
Arrived Lowestoft at 0700 h 17 June  
All times are Greenwich Mean Time

LOCALITY

Middle North Sea

AIMS 8a

1. To artificially fertilize turbot eggs and return live eggs to the laboratory.
2. To collect brill and turbot in an advanced stage of maturation and return them live to the laboratory.
3. To collect live female dabs.
4. To collect 20-25 live plaice.

NARRATIVE

CLIONE sailed from Lowestoft at 1030 h 10 June and proceeded to the grounds off Mablethorpe, one haul being made on the evening of the 10th. Five mature brill were caught here during six hauls on the 11th and were kept in the deck tanks. The ship steamed overnight to NE of the NW Rough to fish for turbot but during the next day ten hauls on these grounds produced only two turbot. Recent market reports indicated that the area south of the middle Rough was a productive area for spawning turbot and CLIONE moved here and began fishing on the 13th. Ripe turbot were caught on the 13th and 14th and artificial fertilizations were successfully carried out between turbot x turbot and turbot x brill. Both dabs and plaice were plentiful on these grounds and the Alcyonaria weed present protected them from damage so that good quality fish could be retained in the deck tanks. However, the brill caught at Mablethorpe were in poor condition and by the morning of the 15th only two males were still alive. Since we had time in hand and needed a female brill to make a brill x turbot cross fertilization it was decided to steam back to the Mablethorpe area. CLIONE left the Middle Rough grounds at 1210 h 15 June and arrived off Mablethorpe at 0340 h on the 16th. Six hauls in this area resulted in a catch of seven males and five female brill, None of the females gave viable eggs however, and at 1515 h the ship set course for Lowestoft docking at 0700 h on the 17th.

RESULTS

1. Five sets of artificial fertilizations were made (turbot x turbot, turbot x brill both diploid and triploid) only one of which was abortive.
2. Thirteen brill and fourteen turbot were returned alive to the laboratory
3. Forty dabs and twenty three plaice in good condition were returned alive to the laboratory.
4. Observations on the haematology and parasitology of turbot were carried out successfully.
5. Dab sampling for maturation studies was completed
6. Samples of small gadoids were deep frozen in polythene bags for return to the laboratory as fish food.
7. A sample of sea water was taken on the Middle Rough grounds for metallic ions analysis (Mr A Folkard)

P Scholes  
19.6.1974

SEEN IN DRAFT J R F + G F L

INITIALLED A J L  
DISTRIBUTION  
Basic List P Scholes  
B Howell  
L Pearse  
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R Leppington-Clark  
M Htun Han