

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

1986 RESEARCH VESSEL PROGRAMME

REPORT RV CLIONE CRUISE 8

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

STAFF S M Rowlatt
 H L Rees
 P Hudson
 D Limpenny
 A Clark
 W Huggins (part time)
 S Blake (part time)

DURATION Left Lowestoft 1200h 27 June
 Arrived Lowestoft 0830h 7 July

LOCALITY North Sea

AIMS

1. To collect sediments by grabbing and coring for physical, biological and chemical analysis, at various localities off the NE coast including (a) Tyne sewage sludge dumping ground and (b) Flyash and colliery waste dumping grounds.
2. To collect Modiolus and other epifauna off the Humber and elsewhere for biological and chemical analysis.
3. To collect sediments by grabbing from widely spaced sites off the E and NE coast for chemical and physical analysis as part of a study of temporal trends in N Sea sediment composition.
4. To survey the proposed Tees sewage sludge dumpsite using grabbing, coring and sidescan sonar.
5. To collect samples of fish for PAH analysis.
6. To evaluate the MAFF camera sledge for use in dumpsite surveys.
7. To survey various E coast sand and gravel extraction sites and dredged spoil dumpsites using sidescan sonar.
8. To collect sediments from the Dogger Bank for PCB analysis.

NARRATIVE

Clione sailed from Lowestoft at 1200h on 27 June. The MAFF underwater TV sledge was deployed in Corton Roads under the supervision of Mr D Key, to familiarise the scientists and ships company with its use. Mr Key was then returned to Lowestoft in the workboat and Clione sailed to a station off N Norfolk. Epibenthos and sediment samples were collected from this site using Newhaven scallop dredges and Day grabs respectively. A further two sites were worked in this manner at the Humber dumpsite on 28 June (Aim 2). Three samples were also taken at the Humber using an anchor dredge.

Clione then sailed to the NE coast. The MAFF underwater TV sledge was used on 29 June to obtain video and still pictures of the seabed at the Tyne sewage sludge dumpsite. A grab transect was worked through the sewage sludge, flyash and dredge material dumpsites off and to the south of the Tyne (Aim 1). The transect was not completed until the morning of 30 June. A core was collected from the Tyne sewage sludge dumpsite and Clione sailed to a set of 10 random sites within a 5 km x 5 km area off the Tyne. 10 grab samples and 5 cores were collected with a view to forming the basis of a time series of measurements of N Sea sediment quality. On 1 July a similar set of samples were collected from an area 20 km to the SE of the first set (Aim 3). Clione steamed to Sunderland where Mr Huggins left and Mrs Blake joined the ship. An additional piece of work was then undertaken; a sidescan survey of the Wearmouth colliery waste dumpsite. On 2 July two 2 hour tows were made with the Granton trawl between the Tyne and Tees Bay (Aim 6). This was followed by an attempt to survey Tees Bay using sidescan which had to be abandoned due to fog. The survey was undertaken on 3 July and completed on 4 July (Aims 4 and 7). A series of beam trawl stations near the Tyne were worked that evening and Clione steamed to the Silver Pits where a series of grab and core stations were worked on 5 July (Aims 3 and 8).

Clione then steamed to the area off Yarmouth to survey a number of sand and gravel extraction sites using sidescan sonar. This was completed on 6 July.

Clione docked at 0830h on 7 July.

RESULTS

All aims were successfully achieved, but the results will not be known until worked up back at the laboratory.

S M Rowlett
(Scientist-in-Charge)
9 July 1986

SEEN IN DRAFT

MASTER GS
FISHING SKIPPER RCN

INITIALLED PCW HWH

DISTRIBUTION:

Basic List +
H L Rees
P Hudson
D Limpenny
A Clark
W Huggins
S Blake

