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

1987 RESEARCH VESSEL PROGRAMME

REPORT

PROGRAMME : RV CLIONE CRUISE 7b

(Not to be cited without prior reference to the author).

STAFF: S M Rowlatt

P A West

H L Rees

P Hudson

D Limpenny

R G Lees

DURATION: Left North Shields 0600h 29 May
Arrived Lowestoft 2245h 31 May
All times are Greenwich Mean Time

LOCALITY: North Sea

AIMS:

1. To collect sediments by grabbing and coring for physical, biological, microbiological and chemical analysis, at the Tyne sewage sludge dumping site.
2. To collect Modiolus and other epifauna off the Humber for biological and chemical analysis.

NARRATIVE

CLIONE sailed from North Shields at 0600h on 29 ^{MAY} ~~June~~ and proceeded to the Tyne sewage sludge dumpsite. 20 grab and core samples were collected along a transect running south from the dumpsite (Aim 1). Nine beam trawl samples were also collected near the dumpsite. On 30 May a further 27 grab samples were collected around the dumpsite. A sidescan survey was carried at the Souter Point dumpsite (dredged material, colliery waste and flyash). CLIONE then steamed to the Humber sewage sludge dumpsite where samples of Modiolus were collected using a modified anchor dredge for a growth, chemical and microbiological analysis. Trials of a new Shipek grab were carried out off the Humber. A control site for the Modiolus study was worked off Blakeney Point and CLIONE then returned to Lowestoft, docking at 2245h on 31 May.

RESULTS

1. All aims were successfully achieved.
2. A variety of seabed litter was found at the Tyne dumpsite.
3. A gradient of sewage contamination was detected at the Tyne dumpsite by faecal bacteria counts.
4. A sidescan survey was added to the programme and successfully executed.
5. A video record was made of the whole cruise to be used for training purposes and presentation to the ICES Working Group on Marine Sediments in Relation to Pollution 1988 meeting.

S M Rowlett
(Scientist in Charge)
5 June 1987

SEEN IN DRAFT: J R French, Master

INITIALLED: H W H

DISTRIBUTION:

Basic list+

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CLIONE 76/87 WORKING AREAS

Tyne Area Limits; 29th to 30th May

A. $54^{\circ}55.6'N$, $01^{\circ}10.6'W$

B. $54^{\circ}59.8'N$, $01^{\circ}19.7'W$

C. $55^{\circ}04.1'N$, $01^{\circ}18.2'W$

D. $55^{\circ}01.8'N$, $01^{\circ}14.1'W$

Humber Area Limits; 31st May

A' $53^{\circ}06.1'N$, $01^{\circ}03.9'E$

B' $53^{\circ}15.6'N$, $00^{\circ}36.8'E$

C' $53^{\circ}33.9'N$, $00^{\circ}27.9'E$

D' $53^{\circ}44.1'N$, $00^{\circ}29.8'E$

