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Provisional: not to be quoted without reference to the writer

R. V. TELLINA

Report for Cruise 2(a)/1969

Staff

Duration

A. K. Steele
B. R. Harvey
M. Pickess

24 February-8 March

Aims

1. To test sampling equipment and techniques for trace element determination.
2. To prove methods for the determination of stable and radioactive caesium in seawater.
3. If weather and time permit, to carry out a survey of radionuclides and their stable counterparts in the Blackwater Estuary.

Narrative:

Inclement weather delayed the start of the programme until 0830 hours, 7 March, when TELLINA sailed from Lowestoft and collected 25 litre seawater samples at surface, midwater and bottom using a 16 litre Van Dorn sampler, at four stations between the shore and the 20 fathom line.

The centre and corners of a mile box were then sampled at surface, midwater and bottom using a modified NIO 1 litre sampler.

Finally, surface seawater samples were collected at hourly intervals from the centre station over a period of 12 hours. At each sampling depth at each station, a sample of seawater was collected for salinity determination.

TELLINA returned to Lowestoft at 0615 hours 8 March.

Results:

The samples collected should provide sufficient results to judge the next necessary steps for completing aims 1 and 2 of the cruise, and more seetime will be required for this when the analyses on these samples have been completed.

A. K. Steele
17 March 1969

Seen in draft: WB

Initialled: AJL

Distribution:

Basic list, plus the following:-

Scientific staff on cruise

Mr. Steele
Mr. Harvey
Mr. Pickess