

VESSEL

R.V. SARSIA

CRUISE PERIOD

4 March - 18 March 1978.

PERSONNEL

B.J. Lees	HSO Senior Scientist
J.E. Blower	ASO
R. Bryant	EO
R. Kirby	SSO
M.R. Lees	SO
M.A.S. Moore	SO
K.A. Reeves	ASO
T.A. Upham	ASO

ITINERARY

A copy of the relevant part of Admiralty Chart No. 1543 is attached.

Saturday 4 March Loaded equipment at Plymouth.
 Sunday 5 March)
 Monday 6 March) Sailing to Lowestoft.
 Tuesday 7 March
 to
 Friday 10 March Sailed at 1000 hrs. Carried out pumped sampling experiments at five stations in Sizewell-Dunwich area.
 Saturday 11 March Offloaded pumped sampling gear. Loaded vibrocorer.
 Sunday 12 March Sailed at 1430 hrs.
 and
 Monday 13 March Vibrocored at 7 stations.
 Tuesday 14 March Gale force winds. Too rough to
 Weds. 15 March sail. Worked on deck.
 Thursday 16 March Sailed at 0800 hrs. 0900 hrs weather deteriorating rapidly. Returned to port. Packed equipment.
 Friday 17 March)
 Saturday 18 March) Sailing to Plymouth.

OBJECTIVES

To continue sediment transport studies in the Sizewell-Dunwich Banks area by 1) making suspended sediment transport measurements and 2) taking cores of the seabed to supplement geophysical and grab sampling data.

PROCEDURE AND METHODS

The IOS (T) pumped sampling equipment was used at the 5 stations shown, for 1 tidal cycle at each, sampling the complete profile at 6 levels every 1/2 hr. This apparatus measures the quantity of sediment passing through at each height, and current speeds at 4 levels. The vibrocorer was used to obtain sediment cores 8 cm in diameter and up to 4.2 m long, at the stations shown.

EQUIPMENT PERFORMANCE

No insoluble problems were encountered with either set of equipment.

RESULTS

Suspended sediment results incorporated in paper read at IAS Conference on Holocene Sedimentation in the North Sea at Texel, Netherlands, in September 1979. Published in Abstracts, No 37. Vibrocore results incorporated in Sizewell-Dunwich Banks Field Study, Topic Report : 1, Introduction and geological background. IOS Report No. 88.

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APPROVED BY : *Alan* (A P CARR)
DATE : *22.2.80* 22 February 1980

