

VESSEL: RV Sarsia

CRUISE PERIOD: 2-10 June 1978

PERSONNEL: Dr W R Parker - Senior Scientist
Dr A P Salkield
Dr T J Smith
Mrs C A Kirk
Mr M A S Moore

ITINERARY:

Friday 2 June	Travel to Plymouth. Prepare Sarsia and install equipment.
Saturday 3 June	Continue installation of computers etc. At 1710 BST crewman W Seymour collapsed and died.
Sunday 4 June	Remain in port for statement etc. Continue setting up equipment.
Monday 5 June	Remain in port. Visit Board of Trade inspector. Continue setting up equipment.
Tuesday 6 June	Finish setting up. Test samplers etc in dock. Test remote controlled winch. Sail 1700. Proceed Start Bay. Anchor 2000.
Wednesday 7 June	Trials of boundary layer rig and mid-water array deployment system. Depart Start Bay 1800. Berth Plymouth 2000.
Thursday 8 June	Clear ship. Attend memorial and funeral service for W Seymour. Return to Taunton 1700.

OBJECTIVES: The original objectives of this cruise were:

- (1) To undertake joint observations with I.M.E.R. of velocity, salinity, temperature and turbidity at a number of stations in the Severn Estuary.
- (2) To test new equipment and deployment techniques for the forthcoming Locater Cruise (August-September 1978).

These were revised consequent upon the events of Saturday 3 June. They were reduced to trials of a new 3 metre boundary layer rig and the trials of the string designed for synchronous flow measurement in the lower 10 metres of water (low water prism).

PROCEDURES AND METHODS: The boundary layer rig was fitted with inclinometers and the rig attitude checked during lowering and on landing. The low water prism array was designed for work in the Bristol Channel and consisted of a ballast tube and bottom contactor, short wire strops and interconnecting flow-meter swivel mounts. The whole had been proof tested. The objective was to allow this soft array to be deployed in one pass. The Braystoke flow meters were found to be best fitted before launching. The interfaces for logging the Braystoke flow meters were also checked out during the short experimental day.

EQUIPMENT
PERFORMANCE:

The boundary layer rig and low water prism array functioned satisfactorily. It was decided to fit guide frames around the flow meter locations on the low water array to carry and cables from lower sensors around higher sensor positions.

Prepared by:

W R PARKER

Approved by:

K R DYER

Date:

23 September 1980