VESSEL: MFV 777, Devonian

OWNER: John J McGuire
5 Swan Court
Dartmouth
Devon

Tel: Dartmouth (080 43) 3639

CRUISE LOCATION: Channel Light Vessel and Start Bay, Devon

CRUISE PERIOD: 2100 11 November 1980 to 1830 13 November 1980

PERSONNEL:

J D Humphery	HSO Senior Scientist
P M Hooper	HSO
D H Joyce	
G N Crisp	HSO
R Hall	ASO

OBJECTIVES: To recover Waverider from Channel Light Vessel (CLV) location. To recover IOS scientist (R Hall) and wave recording equipment from CLV. To recover Start Bay Waverider, and receiving equipment from Start Point Lighthouse.

PROCEDURE AND METHODS:

11-11-80 2100 Arrived Kingswear, launched inflatable. Loaded Waverider recovery equipment onto Devonian.

12-11-80 Rendezvous with J McGuire at 0600 . Lifted inflatable onto Devonian dinghy stowage. Sailed for CLV station at approximately 0645 . Rendezvous with CLV approximately 1130 . As a relief helicopter flight was imminent, CLV requested immediate transfer of scientist and equipment. Transfer effected in approximately 5 minutes, no trouble. Wind NE 3, some chop, slight swell. Waverider had dragged to point some ½ N mile W of CLV. Went alongside, recovered buoy by hand; recovered mooring by hand, and by using winch and gunwhale roller. Anchor badly fouled by chain but otherwise no problem. Returned to Dartmouth, arriving approximately 1800 . GNC and RH to Taunton.

13-11-80 Sailed 1030 for Start Bay Waverider site. Recovered buoy by hand, and mooring using gunwhale roller and winch. Time 1155 . Anchor fouled but mooring had not dragged. Sailed for Start Point Lighthouse. Used inflatable to collect Waverider receiving equipment from Lighthouse. Time 1255 . Returned to Dartmouth. Alongside Kingswear jetty, unloaded all equipment from Devonian, loaded into van. Devonian to mooring buoy no 5, secured at 1830 .

14-11-80 To Kingswear by inflatable; recovered inflatable onto trailer. Drove to Taunton.

EQUIPMENT PERFORMANCE:

CLV Waverider mooring had dragged approximately 1 N mile W during course of experiment (24 days). This was due to the fouled anchor; the position change should not affect experimental results. Anticipated tidal currents at CLV site were 2.5 kt at spring tides (from Admiralty tidal atlas); maximum currents measured by Braystoke current meters lowered from CLV during course of experiment were approximately 3.2 kt. A standard Datawell mooring for 36 fathoms and 2.5 kt had been used; Waverider had been pulled under at peak flow periods during spring tides; long term Waverider performance would not be affected. However, wave recordings would be affected during periods when buoy was partially pulled under.

Start Bay Waverider anchor had fouled but not dragged. Buoy had been fitted with 1.6 Watt transmitter on 29.725 MHz, and a keying clock (22.5 minutes every 3 hours). Signal output still good at recovery (deployment period - 114 days).
VHF, Decca Navigator, radar and winch gear aboard Devonian worked well.

ITINERARY:

11-11-80	1900	Departed Taunton.
	2100	Arrived Dartmouth. Launched inflatable, loaded equipment onto Devonian.
12-11-80	0600	Rendezvous at quayside.
	0645	Sailed for CLV.
	1130	Arrived at CLV; took on board R Hall and intercomparison experiment equipment.
	1215	Recovered CLV Waverider. Started for Dartmouth.
	1800	Arrived Dartmouth.
13-11-80	1030	Sailed for Start Bay Waverider position.
	1155	Recovered Waverider; headed for Start Point.
	1255	Recovered Waverider receiver; headed for Dartmouth.
	1500	Alongside Kingswear. Unloaded all equipment into van.
	1800	Moved Devonian onto river mooring.
14-11-80	0900	Recovered inflatable; departed for Taunton.
	1230	Arrived Taunton.

POSITIONS: CLV Waverider recovered from Decca Navigator position:

Red	G	18.8
Green	A	40.1
Purple	B	74.0

Date/Time 12-11-80 at 1215
Water depth: approximately 36 fathoms
Waverider number: 67214

Start Bay Waverider number: 67201

Prepared by: J D Humphery

Approved by: A P Salkield

Date: 3.12.80.