

VESSEL	M.T. REUL NA MAIDNE	
OWNER	D.B. MACLEOD, Oiteag na Mara, Bruernish, North Bay, Barra, Outer Hebrides.	
CRUISE PERIOD	1900 hrs 10 January 1980 - 0930 hrs 11 January 1980	
PERSONNEL	J.D. Humphery P.M. Hooper	HSO Senior Scientist SO
ITINERARY	Friday 11th January Saturday 12th January	Started loading equipment 1930 hrs. Sailed 2100 hrs. Recovered old offshore Waverider No. 67144 at 0115 hrs. Deployed new offshore Waverider No. 67214 at 0205 hrs. Deployed new inshore Waverider No. 67043 at 0252 hrs. Performed echo-sounder run from the inshore site, through the offshore position and onward, between 0252 and 0422 hrs. Arrived back at berth at 0930 hrs.
OBJECTIVES	To deploy two Waverider wave measurement buoys to continue the series of measurements started in February 1976. To remove a Waverider deployed in an incorrect offshore position in March 1979. To gather echo-sounding information such as time and weather permit, but especially on a line between the two Waveriders, and on into deeper water if possible.	
PROCEDURE AND METHODS	<p>The old Waverider was retrieved first; there could then be no possibility of radio interference with the new offshore buoy. The Waverider was recovered using the jilson; an attempt was made to recover the sub-surface float, but the mooring rope broke and the float was lost. The new offshore Waverider was then deployed. The buoy was lowered overboard by hand; the rubbercord and rope were then paid out. The sub-surface float was lowered into the water and the riser chain paid out. Care was taken to ensure that the mooring did not tangle. The anchor clump was lowered on steel wire rope (specially prepared for the purpose) paid out from the trawl winch. The wire rope was cut and discarded when the anchor weight was on the bottom.</p> <p>The new inshore Waverider was lowered into the water using the jilson. The rubbercord and buoyant chain were paid out by hand, and the anchor dropped.</p> <p>At both deployments, the Decca positions, depths and times were noted.</p> <p>The inshore Waverider position was taken as the first echo-sounding station on a run which passed some 150 m S of the offshore Waverider position, and on a further 3.8 NM. Positions</p>	

were noted every purple Decca lane; the echo-sounder chart was marked and the time noted.

EQUIPMENT
PERFORMANCE:

The Waveriders were energised and sealed on site, and their emissions monitored with a direction-finding receiver. All other IOS equipment was taken to the site ready prepared; the moorings were simply assembled on board. All IOS equipment worked satisfactorily. All equipment on board 'Reul na Maidne' performed very well.

PREPARED BY :

J. D. Humphery

J D HUMPHERY

APPROVED BY :

A. P. Salkield

A P SALKIELD

DATE

: 25-2-80.

STATION LIST

Time GMT	DECCA Green	DECCA Purple	Depth Metres	REMARKS
0115	C 32.8	A 59.3	48.0	Old offshore W/R recovered
0205	D 32.4	A 58.9	46.0	New offshore W/R deployed
0252	-	-	22.0	New inshore W/R deployed
0257	D 37.3	A 53.6	27.4	Alongside inshore W/R started echo-sounder run marked (1) on E/S chart.
0305	D 36.96	A 54.0	27.4	Marked (2)
0317	D 35.02	A 55.0	29.8	Marked (3). Speed increased from 3-4 kt to 5-6 kt.
0325	D 34.62	A 56.0	35.4	Marked (4)
0333	D 33.30	A 57.0	32.4	Marked (5)
0340	D 32.62	A 58.0	43.3	Marked (6)
0347	D 32.24	A 59.0	46.8	Marked (7). Passing approx. 150 m S of offshore W/R.
0354	D 31.63	A 60.0	35.8	Marked (8)
0400	D 31.08	A 61.0	52.5	Marked (9)
0405	D 30.66	A 62.0	58.1	Marked (10)
0411	D 30.27	A 63.0	55.4	Marked (11)
0416	C 47.91	A 64.0	70.6	Marked (12)
0422	C 47.53	A 65.0	73.7	Marked (13)

Note: Depths corrected approx. to mid-tide depths below transducer.
Transducer depth approx. 3 m.

