

PROVISIONAL CRUISE REPORT

Vessel Notre Dame

Owner D B MacLeod
 Oiteag No Mara
 Bruernish
 Barra
 Outer Hebrides
 Scotland
 Tel: North Bay (08715) 384

Location All Waverider sites to west of South Uist

Cruise Period 0900 - 1900 11 July 1982

Personnel J D Humphery HSO
 E J Moore PTO III
 B M Norman ASO Senior Scientist

Objectives To recover Waverider buoys and moorings if possible from the Deepwater, Offshore and Inshore III positions to the west of South Uist. To deploy all but the Inshore buoy on new moorings on the same positions.

Procedure and Methods Drove to Castlebay Jetty, met the skipper and crew of Notre Dame at approx 0900. The two replacement buoys were energised on the quay side. The smaller equipment was loaded by hand; the jilson was used to load the Waveriders and other heavy gear. Reeled 75 m x 13 mm wire for offshore mooring recovery onto starboard winch-drawn, with 115 kg grapnel shackled to end. Reeled 75 m x 13 mm wire for offshore mooring deployment onto port winch drum, with 1 ton of anchor chain shackled to end on chain strop. Sailed for deepwater site at approx 0945.

 Arrived at deepwater site at approx 1250; new deepwater mooring had been prepared on the starboard side-deck while steaming to site. Anchor and chain were paid out on the 200 m rope and lowered to the bottom on the winch. Some tension was maintained to pull the chain out straight and then the buoy was lowered over the side by hand. Position, depth and time were noted.

 Waverider (deployed 1.8.81) appeared in good condition. Lifted buoy onto deck using jilson, recovered rubbercord by hand, and 200 m of rope using winch. Recovered anchor and chain by "stopping off", and using jilson.

 Arrived at offshore site approx 1415. Lowered replacement offshore buoy, lowered overside by hand, paid out rubbercord and rope. The buoy was not allowed to drift far enough away from the vessel before the sub-surface float was deployed. Consequently the buoy became entangled in the mooring rope. After freeing the sub-surface float it was allowed to drift astern as the riser chain was paid out. The anchor clump had

become stuck in the stern gallows and considerable effort was needed to free it. Lowered anchor clump to bottom on 75 m wire; when weight on bottom, moved clear and cut wire, allowing it to drop free. Noted depth, position and time.

Came along side offshore buoy, which was in good condition (deployed 1.8.81). Recovered buoy on jilson and rubbercord by hand. Marked rope with A4 Polyform buoy, and unshackled rope from rubbercord and allowed it to drop free. Paid out 75 m recovery wire and grapnel, and approx 150 m trawl warp, while steaming round marker. Stopped the ship and hauled on the winch-grapnel, caught riser chain at first attempt - lifted sub-surface float onto deck with jilson. Recovered chain and anchor by stopping off and using jilson. Noted depth, position and time. Steamed for Inshore III position.

Arrived Inshore position 1527, buoy appeared in good condition (deployed 1.8.81). Recovered buoy and rubbercord on deck using jilson and winch. Hooked buoyant chain from the water using the jilson, and recovered the 50 m length by stopping off and using the jilson.

Sailed from Inshore III position 1559. Arrived Castlebay 1825.

Weather Ideal weather conditions prevailed throughout the time spent at sea. Very slight sea with a low underlying swell.

Equipment Performance The Waveriders had been prepared and tested prior to leaving IOS (T). They were emission tested with an absorption wave-meter. Moorings were made up and flaked out on deck from components brought from IOS(T).

Itinerary
0900 Rendezvous with Notre Dame at Castlebay.
0945 Sailed for Deepwater site.
1250 Arrived Deepwater site - deployed new buoy.
1300 Recovered old Deepwater buoy.
1415 Arrived Offshore site - deployed new buoy.
1435 Recovered old Offshore buoy.
1527 Arrived Inshore site - recovered buoy.
1559 Sailed for Castlebay.
1825 Arrived Castlebay.

Positions
Deepwater Buoy deployed: 11 July 1982
Waverider No: 67749-7
Decca Chain: 8E/MP (Hebridean)
Green: D 30.10
Purple: A 73.80
Depth: 48 fathoms
Time: 1255 BST

Offshore buoy deployed: 11 July 1982
Waverider No: 67042
Decca chain: 8E/MP (Hebridean)
Green: D 32.20
Purple A 58.90
Depth: 28 fathoms
Time: 1428 BST

Prepared by: B M NORMAN

B.M. Norman

Approved by: A P SALKIELD

A.P. Salkield

Date: 19-10-82

Waverider recoveries:

Deepwater Site: Buoy No: 67043
Deployed: 1.8.81

Offshore Site: Buoy No: 67214
Deployed: 1.8.81

Inshore III Site: Buoy No: 67213
Deployed: 1.8.81

Receiving Systems:

Calibrated: 13.7.82

Deepwater System: Frequency: 29.725 MHz
Eddystone receiver: EC964/7C/458
inventory No 1090
Microdata logger No: 1036
Recording channel: 6
Readings prefixed by: -
Unlocked display: -0000
Sensitivity: -64 Hz^{-1}

Offshore System: Frequency: 29.825 MHz
Eddystone receiver: EC964/7C/553
inventory No 1106
Microdata logger No: 1037
Recording channel: 6
Readings prefixed by: -
Unlocked display: -0000
Sensitivity: -64 Hz^{-1}