

PROVISIONAL CRUISE REPORT

VESSEL: RV Squilla
LOCATION: Eddystone Rocks
CRUISE PERIOD: 2 November-5 November 1981
PERSONNEL: B M Norman
 J D Humphery
 D H Joyce
OBJECTIVES: To recover old Waverider and mooring system. To deploy new Waverider and Wavecrest buoys in order to continue data collection from the Eddystone site and also to run comparative tests between the two types of buoy. To install and commission receiving and logging systems at HMS Cambridge.
PROCEDURE AND METHODS: The Waverider buoy was deployed by allowing the buoy and sub surface float to drift away from the vessel to ensure that no twists or kinks existed in the mooring. The anchor clump was then lowered to the sea bed on a steel wire. The lowering wire was then unshackled and allowed to drop free.
 The Wavecrest buoy was deployed in an identical manner.
 The old Waverider was recovered using boathook and jilson. The buoy was detached from the rubber cord and replaced with a large marker buoy. A large grapnel was lowered and several runs were made past and around the buoy in an attempt to snag the riser chain between the sub surface float and the anchor clump.
 Eventually the grapnel or the wire caught fast, probably on a rocky outcrop, and after several attempts to free it the wire was cut and the grapnel abandoned.
EQUIPMENT PERFORMANCE: The failure to recover the Waverider mooring and the consequent loss of the grapnel was the only problem encountered during the cruise. The grapnel that was lost had been used very successfully on other occasions and it is thought that the extremely rocky conditions present at the Eddystone site rendered the grapnel unrecoverable using the winch and equipment available on the vessel.
ITINERARY: Monday, 2 November:
 Travelled to Plymouth.
 Tuesday, 3 November:
 AM Loaded Squilla and prepared both moorings. Weather conditions caused postponed sailing.
 PM Installed two more receivers and two track microdata logger at HMS Cambridge.
 Wednesday, 4 November:
 Vessel sailed 0900.
 AM Deployed Waverider buoy and Wavecrest buoy.
 PM Recovered old Waverider buoy and attempted to recover old Waverider mooring. Returned to Plymouth.
 Thursday, 5 November:
 AM DHJ unloaded Squilla and returned to Taunton. BMN and JDH commissioned new receiving system at HMS Cambridge.
 PM Returned to Taunton.
PREPARED BY: *B.M. Norman* B M NORMAN
APPROVED BY: *A.P. Salkield* A P SALKIELD
DATE: 30.11.81.

ABRIDGED DETAILS

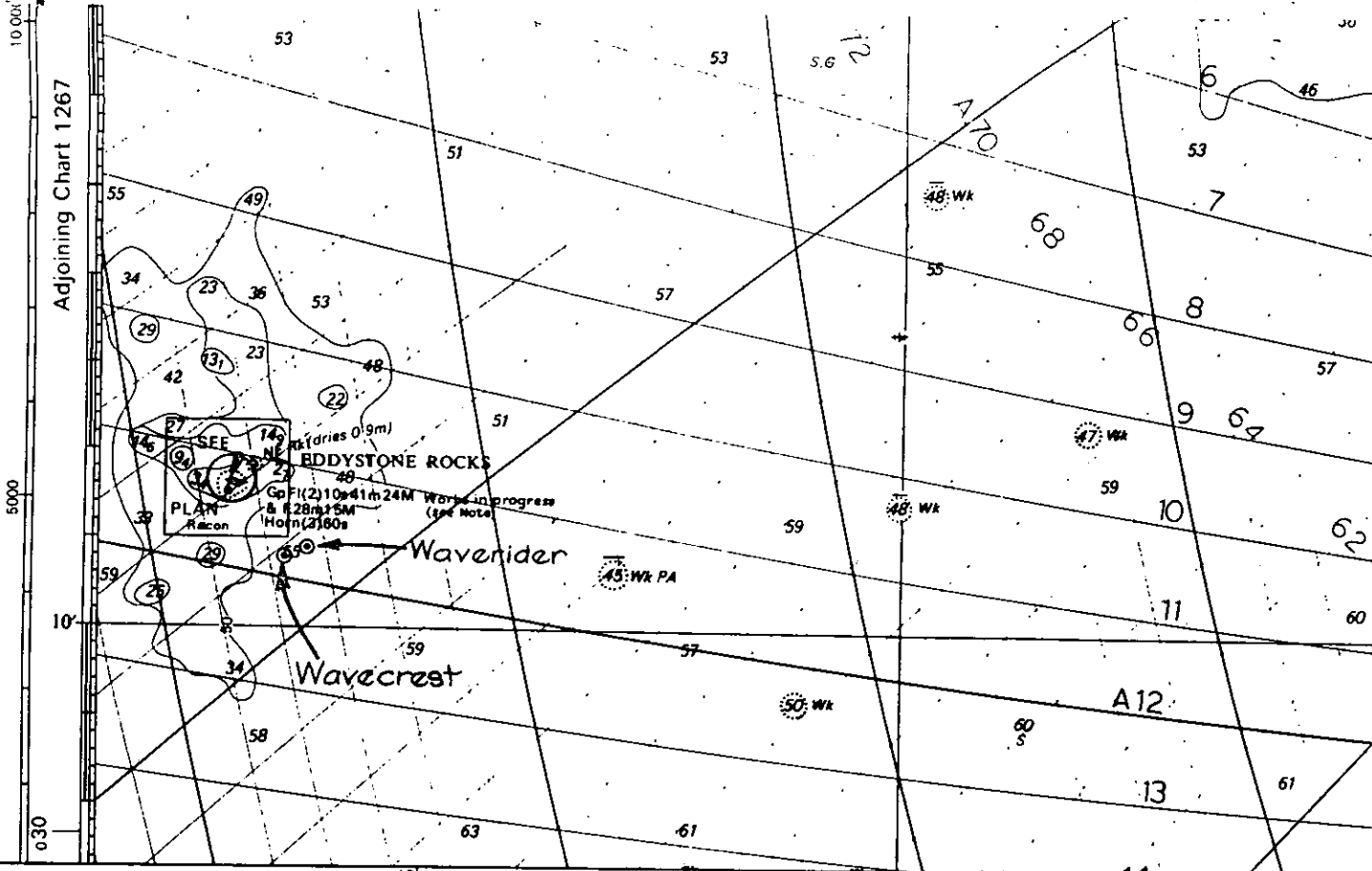
Eddystone Wavecrest Buoy

Buoy No	104
Inventory No	1134
Frequency	27.015 MHz
Battery voltages	23.9 V + 23.8 V Top 23.8 V + 23.9 V Bottom on 14.10.81
Position	Red A 11.8 Green C 46.7 Purple A 70.95 Depth 40.5 m
Deployed	1140 GMT 4.11-81
Calibrated	14.10.81
Sensitivity	1.7777 Hz m ⁻¹
Eddystone Rx	Type No 964/7c Serial No 499
Microdata logger	Inventory No 1097 Serial No 5266
Logger and Rx calibrated	3.11.81
Sensitivity	-64.00 Hz ⁻¹
Readings prefixed by	Negative symbol
Recording channel	5

Eddystone Waverider Buoy

Buoy No	67201
Frequency	26.990 MHz
Battery voltages	19.10.81 20.5 V + 20.5 V
Position	Red A 11.7 Green C 46.3 Purple A 70.8 Depth 40.4 m MWD
Deployed	1100 GMT 4.11.81
Calibrated	14.10.81
Sensitivity	1.8523 Hz m ⁻¹
Eddystone Rx	Type No 964/7c Serial No 447
Microdata logger	Inventory 1097 Serial No 5266
Logger and Rx calibrated	3.11.81
Sensitivity	-64.00 Hz ⁻¹
Readings prefixed by	Positive symbol
Recording channel	6

NB: The data from both of the buoys is being recorded on a 2 channel Microdata Logger.



EDDYSTONE ROCKS

1:7500

