

Provisional. Not to be quoted without reference to the writer

R.V. CLIONE

Report for Cruise 11/1968

PART I

Staff

Duration

R. B. Mitson	30 September-11 October
J. C. Cook	} A.R.L.
S. Osborne	
W. L. Huggins	
C. R. Hood	

Aims

1. To test all sector scanning sonar systems at sea.
2. To check sensitivity and calibration of complete equipment.
3. To test dome acoustically.
4. To check range of detection in open water on a variety of targets.
5. To test photographic recording equipment.
6. To train members of Electronics Section in the use of the sector scanning sonar.

Narrative

Work started in an area 7 miles east of S. Scroby. A number of wrecks on the seabed were located and examined by the A.R.L. Scanner. During the early hours of 1 October CLIONE moved to an area about a mile southeast of the Corton buoy. Further wrecks and small shoals of fish were detected.

Staff were landed as arranged at Lowestoft at 1730 hours, 1 October. CLIONE sailed for Portland at 1830 hours. Bad weather delayed arrival until 0115 hours, 30 October. Transducer stabilization equipment was checked and the dome cover fitted to its framework. A.R.L. staff joined the ship in the afternoon of 30 October and set up equipment ready for measurements. A wide range of measurements was carried out on 4 October. CLIONE sailed on 5 October and spent several hours checking on known seabed targets and making range measurements with standard targets. Calibration and measurements were continued until CLIONE sailed at 1230 hours, 7 October. Targets were again checked on both the horizontal and vertical scanning modes.

Results

All aims were achieved other than Aim 5 for which there was insufficient time.

The performance of the A.R.L. detection equipment was highly satisfactory.

R. B. Mitson
J. C. Cook

15 October 1968

Initialled: AJL
Seen in draft: MRS

Distribution

Basic list, plus the following:

Scientific staff on cruise

Mr Mitson
Mr Huggins
Mr Hood

Dr Cook
Mr Osborne