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FRV "Goldseeker"

Cruise 3/85

3GR85 MB

Report
6-26 February 1985

Personnel

Part 1	6-15 February	A MacDonald	P & TO III (in charge)
		J Hunter	P & TO IV
		N Collie	P & TO IV
		C Stewart	Craftsman
Part 2	16-26 February	G Urquhart	PSO (in charge)
		R Ferro	SSO (18-20 February)
		R Mitchell	HSO
		G Booth	SO

Objectives

Part 1 a) Testing of new "2 board" tension meters and evaluation of 2 alternative shear pins.

b) Development of deck instruments logger and associated sensors.

c) Tests to establish maximum range of acoustic spreadmeter system. Hydrodynamic balancing of spreadmeter towed bodies.

d) Testing of new door angle meters.

Part 2 a) Trials of microcomputer data logger and associated hardware. Evaluations of software packages for data logging and analysis.

b) Development of on-line acoustic "sing-around" spreadmeter system.

c) Calibration of ship and net speed logs.

d) Evaluation of new Trisponder hardware and position fixing software.

Results

1 a) The new layout was completely reliable and one of the shear pins proved to be clearly superior in design under operational conditions.

b) Not attempted due to lack of time.

c) The spreadmeter system was modified and tested to give increased range for pair trawling trials but a maximum range figure was not established.

d) These were successfully tested and the effects of heel and pitch on angle of attack were investigated.

2 a) Final adjustments were made to the software and data were successfully logged and analysed in a simulation of real operating conditions.

b) Unsuccessful due to surface reflections being much stronger than anticipated. Tape recordings were made for further analysis in the Laboratory.

c) A large number of routine calibrations were completed and the effects of impellor position relative to the ships wake and hull were investigated.

d) The positioning fixing program for the Quarndon computer was successfully tested. A new master unit was tested but not used as no calibration figures were available.

A MacDonald
G Urquhart

24 October 1985