5GR79 AMM

In confidence: Not to be quoted without reference to the Leboratory R1/10

FRV GOLDSEEKER

REPORT

Cruise 5/79

10 April-4 June 1979

Objectives |

- 1 To instrument and observe a four panel trawl for vessels of 50-100 HP
- 2 To observe the three bridle universal shrimp trawl

Narrative

The cruise was divided into two sections, each of two weeks duration: the first for measurements and observations by divers and the second for instrumented measurements of the gear.

Out of a total of 19 working days 11 were lost due to inclement weather conditions and equipment failure.

Underwater visibility was poor over the whole area which precluded to a large extent full use being made of the diving team.

Due to the time loss it was only possible to complete objective 1.

Results

The trawl was fished with 4* Vee boards, 15 fm twin bridles and had 10 x 8" plastic floats on the headline. Four underwater TV tapes of the trawl were obtained, of sufficient quality to show that the net had a good overall shape and was operating as designed.

The following table is a summary of the instrumented results obtained.

Speed (knots)	2.5	2.75	3.0
Headline height (ft)	10	9.6	9.2
Wingend spread (ft)	31	32	33
Door spread (ft)	80	82	85
Bridle angle (degrees)	15	15	15
Net drag (tons)	0.49	0.55	0.61
Total warp load (tons)	0.74	0.83	0.93
Gear horsepower	13	16	19

The above figures are better than those obtaining from commercial trawls for vessels of 50-100 HP.

Seen in draft: W. B Ross

A Corrigall