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In confidence: Not to be quoted without reference to the Laboratory

CRUISE REPORT

ASAM VET

5 - 9 July 1976

Personnel:

R D Galbreith SO (in charge)

J Main

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SO

E Wright

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OBJECTIVES:

- 1. To study the engineering performence and gear geometry of the laboratory 200 h.p. four penci trawl (Lossie J) and that of a commercially available 200 h.p. trawl (Boris Mystic), with particular reference to the relationships between available towing power, gear drag, otterboard size and type and bridle angle.
- 2. To obtain cine film and still photographs of both gears for subsequent analysis.
- 3. To test the diver's underwater distance measuring instrument.

NARRATIVE:

The scientific staff joined "Mara" at Buckle on Monday 5 July when the instrumentation was installed on the ship and the fishing gray made ready for sea.

The trials commenced on Tuesday 6th in Spey Bay test area and continued until the evening of Thursday 8 July when a fire in the forward accommodation damaged the vessel and the cruise had to be terminated and the accentific staff returned to Abordeen on Friday 9 July.

RESULTS:

Due no doubt to the exceptionally warm weather, the presence of large quantities of jelly fish on the grounds limited the value of the gear measurements made. Even with the codends open the jelly fish clogged up the meshes and caused the gear to lift off the bottom, and although groundreps weighting and rigging were altered to achieve bottom contact the gear still tended to be light on the ground.

The lack of visibility due to fog mede diving operations impossible for 2 of the bauls. Nevertheless during the three working days seven instrumented hauls were carried out and on five of these divers were able to make observations and measurements. A quantity of underwater cine film of the gear in action, some

of it on hard ground, was shot, but much of this was destroyed or damaged in the fire.

The new diver's underwater distance measuring instrument was found to be subject to faulty triggering due to vibration and further modifications will be required to remedy this fault.

R D Galbraith

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