

R1/10

8GR83

In Confidence: Not to be quoted without prior reference to the laboratory

FRV "Goldseeker"
Cruise 8/83

SM

REPORT

25 July - 19 August 1983

Objectives

1. To undertake engineering trials using both flat and vee-type otterboards of differing sizes, with a scaled down "Mystic" trawl.
2. To measure the net drag of the above trawl with and without lower wings.
3. To investigate any difference in engineering performance between rock-hopper and bobbin groundropes.

Narrative

The work was carried out in the South Deeps and Spey Bay areas of the Moray Firth with "Goldseeker" returning to Buckie each evening. Weather conditions were suitable for instrumentation work on all but two days of the cruise, although a further working day was required for winch repairs due to a mechanical failure of the guiding-on gear.

Results

A total of 28 fully instrumented hauls were made with the scaled down "Mystic" trawl in both deep and shallow water. The data obtained with the various combinations of otterboards, wing arrangements and groundropes will be used to compute gear geometry and drag for comparison with larger versions of the "Mystic" trawl.

R D Galbraith
13 September 1983

seen in draft
W B Reid