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FRV "Clupea"

SCR85 MB

Cruise 5/85

### Report

24 April - 9 May 1985

### Personnel

R D Galbraith	HSO	
R B Mitchell	HSO	(24 April - 2 May)
A MacDonald	PTO	III
W K T Gray	PTO	IV
J T M Hunter	PTO	IV
C A Stewart	Craftsman	(2-9 May)

### Objectives

- 1 To carry out instrumented gear trials on the proposed "Clupea" survey gear Chalut 28.90/37.10 (BT159).
- 2 To measure net drag using rubber disc, rockhopper and bobbin footropes with the above trawl on both soft and firm bottom.
- 3 To test a new system of in-line warp load measurement where tension meters are shackled directly into specially prepared warps.

### Narrative

A combination of engine breakdown and unsuitable weather meant that instrumentation work did not commence until 29 April when 2 hauls were made off Tolsta. Thereafter "Clupea" worked every day either in this area or in the deeper water east of Arnish, with the exception of 2 May when the half-landing was taken in Stornoway.

"Clupea" was unloaded in Stornoway and staff and equipment returned to Aberdeen on 9 May.

### Results

A total of 20 hauls were made, of which 18 were fully instrumented. On 10 of these hauls the trawl was fished with the standard rubber disc footrope, and both rockhopper and bobbin groundgears were employed for 4 hauls each. All three footropes were used on both soft and firm bottom.

While the new warp system functioned well enough with short tension meter chains some problems were encountered using the longer strops to permit the loadcells to clear the stern. Nevertheless the new system is a considerable improvement and the recurring damage to warps previously experienced has been completely eliminated.

R D Galbraith

29 May 1985

Seen in draft: James A Calder