

libviny

R1/7

AMM  
7MR79

CRUISE REPORT

FRV MARA

Cruise 7/79

9-27 July 1979

Objectives

- 1 To instrument the Lossie Q Trawl
- 2 To instrument and observe the Laboratory's three bridle trawl.

Narrative

The MARA operated from Buckie for the duration of the cruise working in Spey Bay and for a short period on the Bellans ground to the north of Buckie.

Underwater visibility though poor, was sufficient to allow worth while observations of the gear to be made using the low light TV system.

There were at times large concentrations of sprats and sandeels on the grounds and almost 100% of these could be seen to escape from the net at the extension piece and top of the codend.

Only one working day was lost due to strong SW gales.

Both cruise objectives were completed.

Results

Objective 1 The Lossie Q Trawl was designed to suit the towing power of vessels in the 100-200 HP range and the trials have shown that it is now ready for commercial evaluation.

The following table gives the data obtained when the gear was fished with 75 fms of warp aft.

Table 1

Rig - 30 fm sweeps; 11 x 8" + 4 x 5" floats; 6' Vee boards

Speed (knot)	2.5	2.75	3.0
Headline Ht (feet)	13	13	13
Wingend spread (feet)	34.5	33	31.5
Door spread (feet)	98	92	85
Net drag (tons)	78	0.915	1.05
Total warp load tons	1.18	1.35	1.52
Gear Horsepower	20.3	25.3	31.4