

R1/3

Not to be cited without prior reference to FRS Marine Laboratory, Aberdeen

Charter Fishing Vessel *Bountiful* BF79

Cruise 0203H

REPORT

22-26 March 2004

Personnel

R J Kynoch In charge
N Collie

Objective

To carry out fully instrumented *Nephrops* twin trawl gear measurement trials on a vessel with main engine power of 298 Kw and fishing in water depths ranging from 110 m to 122 m.

Out-turn Days Per Project: 5 days, MF0755

Narrative

Staff and instrumentation travelled to Fraserburgh on Monday 22 March. Staff then commenced rigging the instrumentation aboard the vessel alongside Fraserburgh harbour and setting up a shore station to service the load cells. The vessel left port during the morning of 23 March however, due to strong northwesterly winds measurement trials had to be abandoned for the day. Thereafter, fully instrumented hauls were made on *Nephrops* fishing grounds 8 miles NW of Fraserburgh until the end of the cruise on the afternoon of 26 March. Staff and the instrumentation returned to Aberdeen during the afternoon of 26 March.

Results

Three fully instrumented hauls were made on the same fishing tow with a warp length of 320 m with water depth ranging from 110 m to 122 m. The haul procedure was the same for all three hauls and consisted of blocks (15 minute periods while towing at constant rpm) at systematically varied speeds. The reciprocal tow method as recommended by ICES was used to allow for tidal changes. Engineering performance data will be analysed in the Laboratory and utilised in project MF0755.

R J Kynoch
2 April 2004