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Not to be cited without prior reference to the Laboratory

Charter Vessel *Endrick II*

Cruise 0294H

**REPORT**

16-20 May 1994

**Personnel**

D Basford	HSO	17-20 May (in charge)
S Heaney	ASO	17-20 May
E Armstrong	SO	17-18 May
P Barkel	PTO	18-20 May

**Gear**

ROXANN, sidescan sonar, TV, grab and Agassiz trawl

**Objectives**

To undertake a survey of the experimentally trawled and control areas within the Gareloch, Clyde.

**Out-turn Days per Project**

5 Days, BGF1

**Narrative**

The gear was transported to Greenock on Monday 16th. The sidescan and ROXANN were set up on Tuesday morning and the survey of both areas completed by Tuesday night. On Wednesday morning the sidescan and sonar were off-loaded and the TV equipment put aboard. TV surveying commenced on Wednesday and was concluded on Thursday morning. On Thursday afternoon a grab survey was initiated, being completed by Friday mid-day. Thereafter three short Agassiz trawls were taken on the trawled patch.

All objectives having been met the gear was off-loaded at 1400 on Friday and the gear and staff returned to the laboratory.

**Results**

The sidescan was towed along four transects within the disturbed area and three on the control plot. Trawl tracks were clearly visible on the experimentally trawled area whereas the control area was featureless. The ROXANN showed the sediment to be uniformly muddy. Four hours of TV data from the disturbed area and three from the control were collected for analysis at the laboratory. The SIT camera on the drop frame were used due to the very poor visibility (4-6 inches). There appeared to be a fairly diverse epifauna and no major differences between the two areas.

Fourteen benthos samples were collected from each area plus five samples for sediment analysis and organic carbon and chlorophyll analysis. These samples will be analysed at the laboratory.

Three Agassiz tows were undertaken on the disturbed area to collect specimens to aid the identification of the animals seen on the video.

D Basford

30 May 1994