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Not to be cited without prior reference to the Laboratory

ENDRICK II

REPORT

Cruise 2693H

15-26 November 1993

Personnel

D Basford HSO 15-19 November (in charge)
M Robertson HSO 15-26 November (22-26 November in charge)
E Armstrong SO 15-19 November
P Barkel PTO 18-23 November
S Heaney ASO 22-26 November

Gear: ROXANN, sidescan sonar, TV sledge, Agassiz trawl, grab, corer

Objectives

1. To undertaken a preliminary sonar, ROXANN and benthic survey of Loch Gareloch.

2. To complete a baseline survey of a site for experimental trawling and a comparable control area.

3. To undertake a survey of the Holy Loch.

Out-turn Days: 11 days, BGF1

Narrative

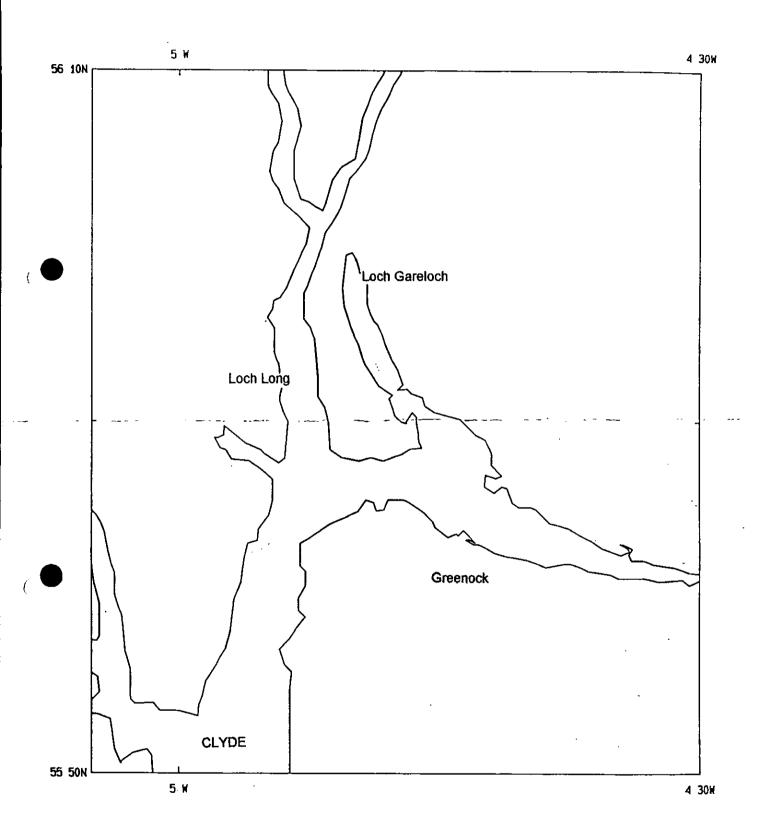
After loading gear at Greenock, Endrick II sailed for Loch Gareloch at 1200 on 15 November arriving on station around 1230 (see Fig. 1). Surveying, using ROXANN and sidescan sonar then commenced and continued, with an overnight interruption, until 1630 on 16 November when Endrick II returned to Greenock. Grab samples for ROXANN ground-truthing were also collected during this time. On 17 November, Endrick II sailed for the Holy Loch where a ROXANN and sidescan survey with ground-truthing samples was successfully completed, the vessel then returned to Greenock where she tied up at 1730. The days of 18 and 19 November (from 0830-1700) were spent conducting a TV survey of Loch Gareloch.

After a weekend off charter, Endrick II again sailed for Gareloch at 0900 on 22 November and completed the TV survey of the loch before return to Greenock for the night. On 23 November, Endrick II returned to the Gareloch and carried out an Agassiz trawl survey of the area. The following 2.5 days (24, 25 and the morning of 26 November) were spent sampling sediment from throughout the loch using both corer and grab. Finally, Endrick II returned to Greenock and tied up at 1200 on 26 November.

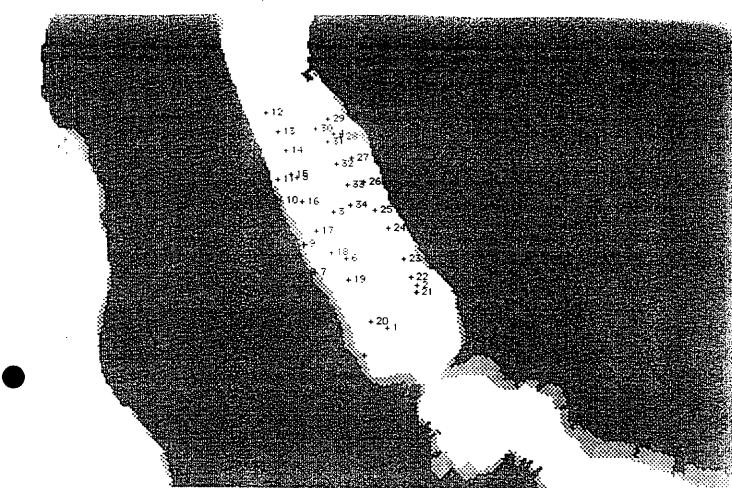
Results

A total 34 grab samples (see Fig. 2), 11 Agassiz trawls (see Fig. 3), seven TV tows (see Fig. 4) and five core samples (see Fig. 5) were collected from throughout the general area of Gareloch. A further 30 grab samples (see Fig. 5) were taken from six stations sited within the designated disturbed area (Stations 1-3) and the control area (Stations 4-6). Preliminary examination of the Agassiz material and the video tapes show a typical "mud bottom" fauna dominated by Asterias, Seapens, Nephrops and long rough dabs. The grab samples indicate a rich infauna dominated by molluscs and polychaetes. Further, detailed analysis of all samples and data collected will yield precise information on the fauna and the state of the sediment with in Loch Gareloch.

M R Robertson 28 February 1994



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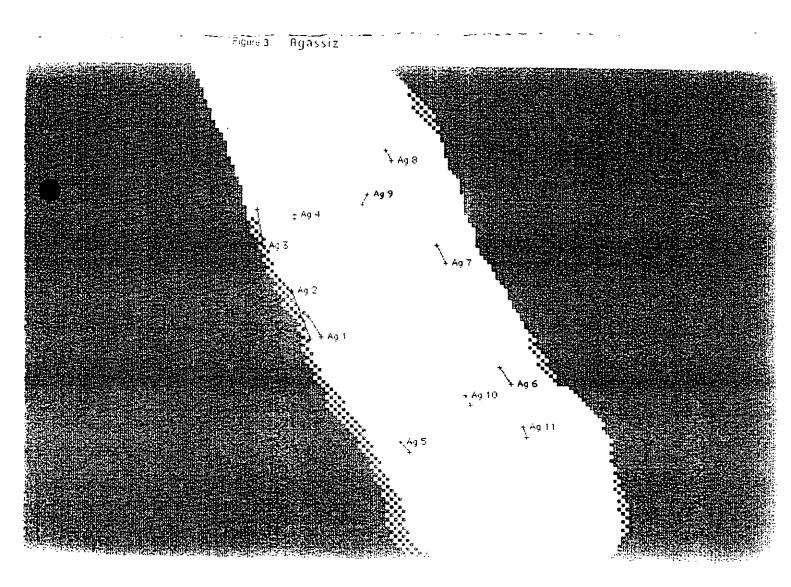


Figure 4 11)



