

R1/6

Not to be cited without prior reference to the Marine Laboratory, Aberdeen.

FRV *Clupea*

Cruise 1295C

REPORT

17 July - 4 August 1995

Ports

Loading: Fraserburgh

Unloading: Ardrossan

Personnel

I M Davies	PSO (in charge)	
P Hayes	PhD Student	17-28 July and 31 July - 4 August
P Hess	Visitor	17-28 July
G Grewar	Visitor	28 July - 4 August
M Krom	Visitor	24-28 July
R Matthews	Visitor	28 - 4 August

Objectives

To collect sediment samples from the east coast, Minches, selected sea lochs and the Clyde in support of programmes to describe the chemical composition of sea bed sediments.

Out-turn days per project: BGA1 16 days, BGB1 3 days

Narrative

After all the equipment had been loaded, *Clupea* left Fraserburgh on the afternoon tide (1500 hours) on 17 July, and made passage to the first sampling point off Rattray Head. From 17 July to 20 July, sediment samples were collected at various locations off the east coast between the Forth of Forth and Wick. Overnight passage was then made from Wick to Loch Inchard, where sediment samples were collected using Day grab and gravity corer. Due to adverse weather conditions, the night was spent in Kinlochbervie.

During the next four days, samples were collected in Lochs Torridon, Duich and Nevis. Pore water was extracted from some core samples anaerobically in a nitrogen glove box to prevent oxidation of sensitive chemical species.

Clupea entered the Clyde on 29 July, having sampled sediment over a wide area off the west coast. Further samples were collected in the Clyde, including the Gareloch and Loch Fyne.

On the evening of 1 August, *Clupea* ran aground on a sand bank just west of Dumbarton Rock. Scientific personnel were evacuated to the tug Point Spencer by the Helensburgh inshore lifeboat, as a precautionary measure. *Clupea* was refloated at 0400 hours on 2 August, and the staff rejoined the ship at 0500 hours. Subsequent examination of *Clupea* established that no damage had been incurred.

The cruise terminated in Ardrossan on 4 August, and the staff travelled back to Aberdeen by minibus.

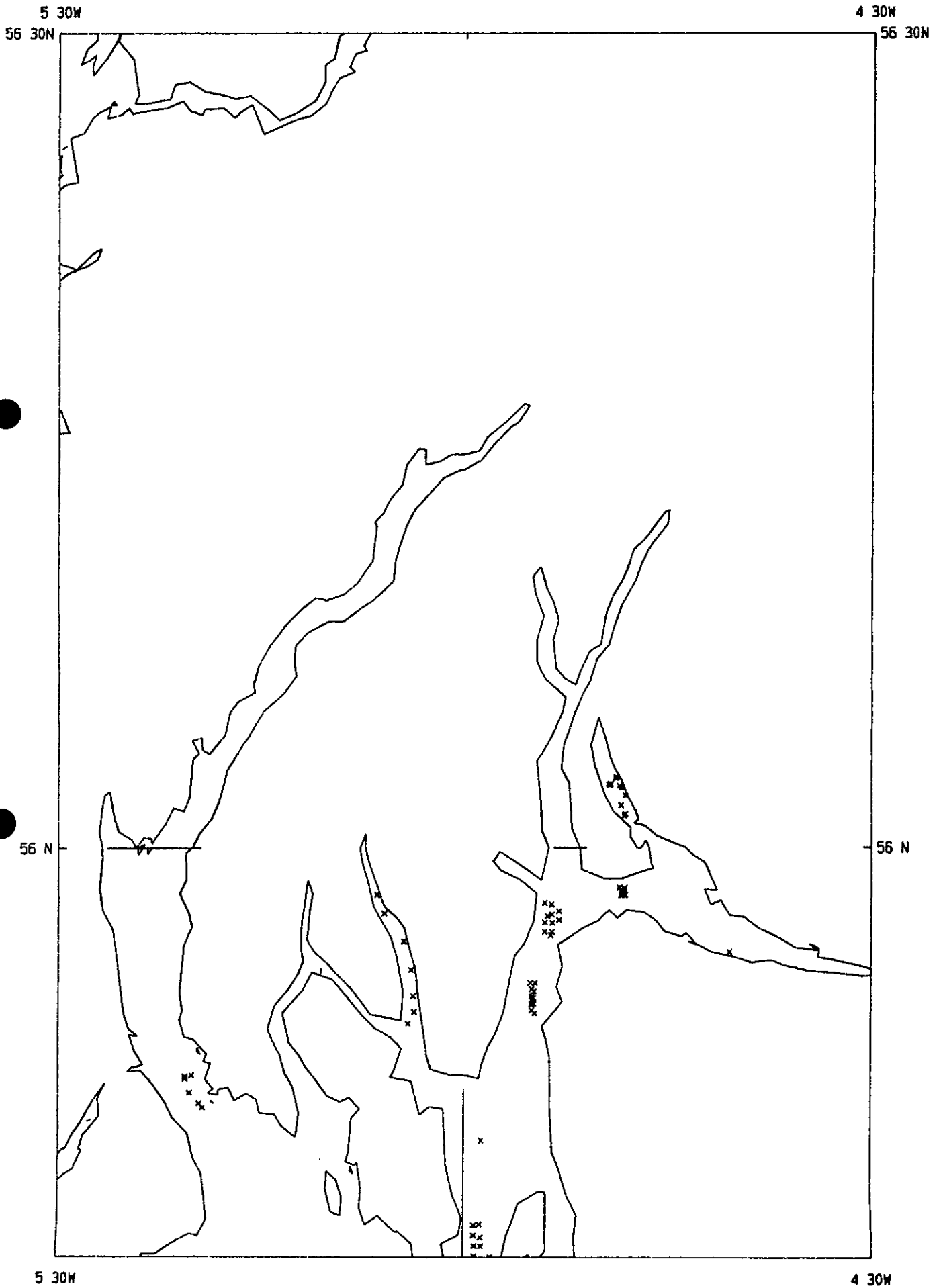
Results

Some pore water samples were analysed at sea, and the results indicated considerable differences between sea lochs in the dominant microbial processes in the surface sediments. All samples were stored for further analysis in Aberdeen and Leeds, and the results will be presented in due course.

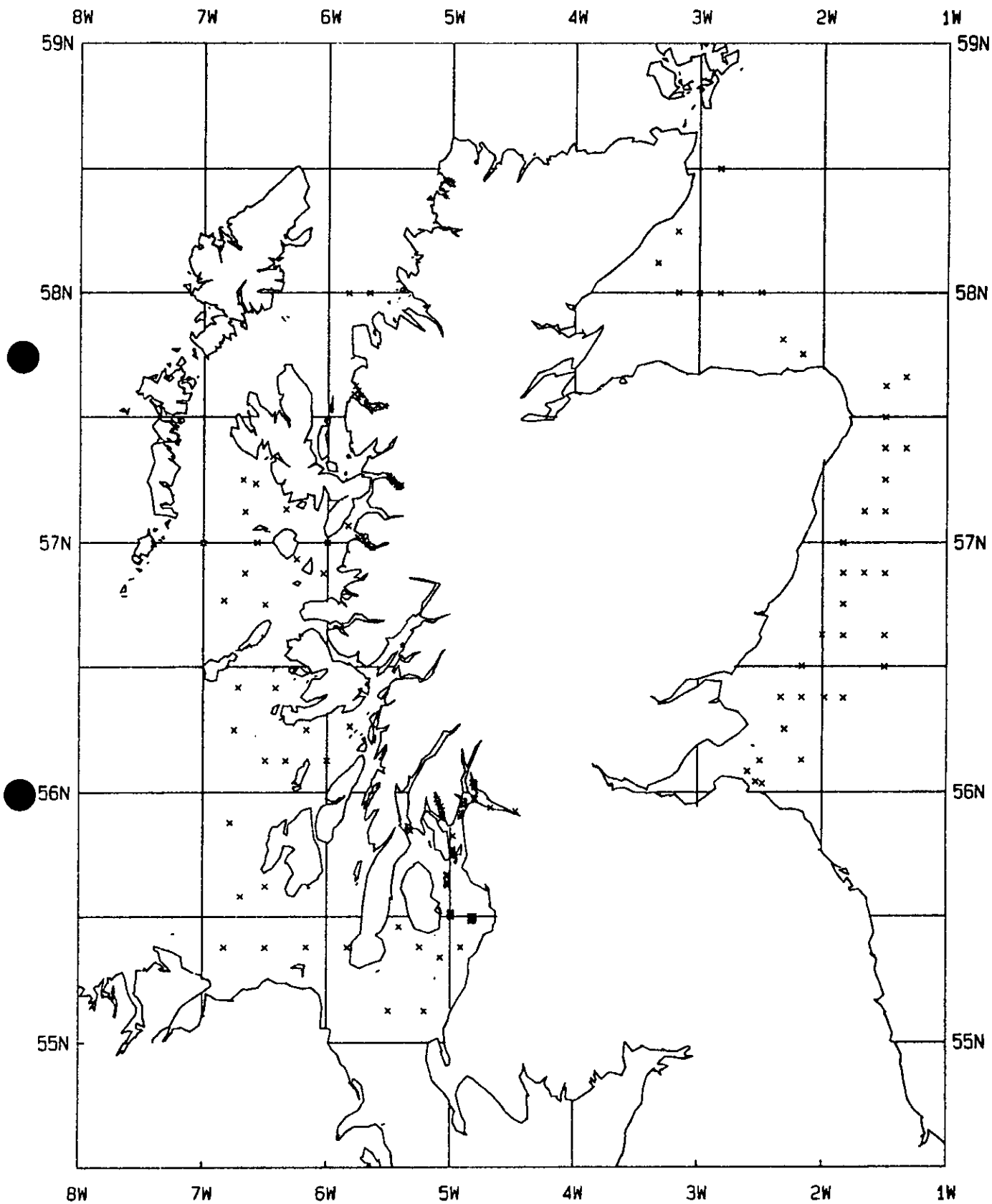
I M Davies
14 August 1995

Seen in draft: A Simpson, OIC

Cruise 1 July 17th-August 4th 95



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