

R1/10

In Confidence - Not to be quoted without prior reference to the Laboratory

FRV 'Goldseeker'
Cruise 9/82

9GR82

Report

3-27 August 1982

Personnel

J C McKie	ASO		
B A MacLeod	ASO	(part-time)	} Part 1
A H McVicar	PSO	(part-time)	
A L S Munro	PSO	(part-time)	
I M Davies	SSO		
C R Falconer	SO		
A H McVicar	PSO	(part-time)	} Part 2
R Wootten	PSO	(part-time)	

Objectives

1. To collect samples of water, sediment and biota, for metal and nutrient analysis, in the inner part of the Moray Firth, particularly the Cromarty and Inverness Firths and the BACO dumping ground.
2. To collect a 25 l sample of surface seawater, at 56°32'N, 2°20'W, as part of DAFS input to MAFF's programme on the quantification of radioactive substances in British coastal waters.
3. To examine the incidence of diseased fish in the Forth estuary in relation to water quality. Samples of fish will be collected at a number of positions in the inner and outer sections of the estuary.
4. To collect samples of water, sediment and biota for metal and nutrient analysis, in the inner part of Firth of Forth, particularly in the coastal areas between Edinburgh-Dunbar and between Forth Bridge-Grangemouth.

Narrative

'Goldseeker' sailed from Buckie at 0300 hr, on 4/8/82 to Invergordon to collect scientific staff. A sediment survey grid was completed on the BACO dump ground using a TV Grab. Due to construction work in Buckie harbour, it was necessary for 'Goldseeker' to leave for Buckie at 1830 hr on 5/8/82.

'Goldseeker' left Buckie again on 9/8/82, and worked a small number of hydrographic stations on passage to the Firth of Forth. Additional staff joined at Granton, and on 12 and 13/8/82 fishing in relation to objective 3 was carried out in the Portobello/Musselburgh area, and the weekend was spent in Leith.

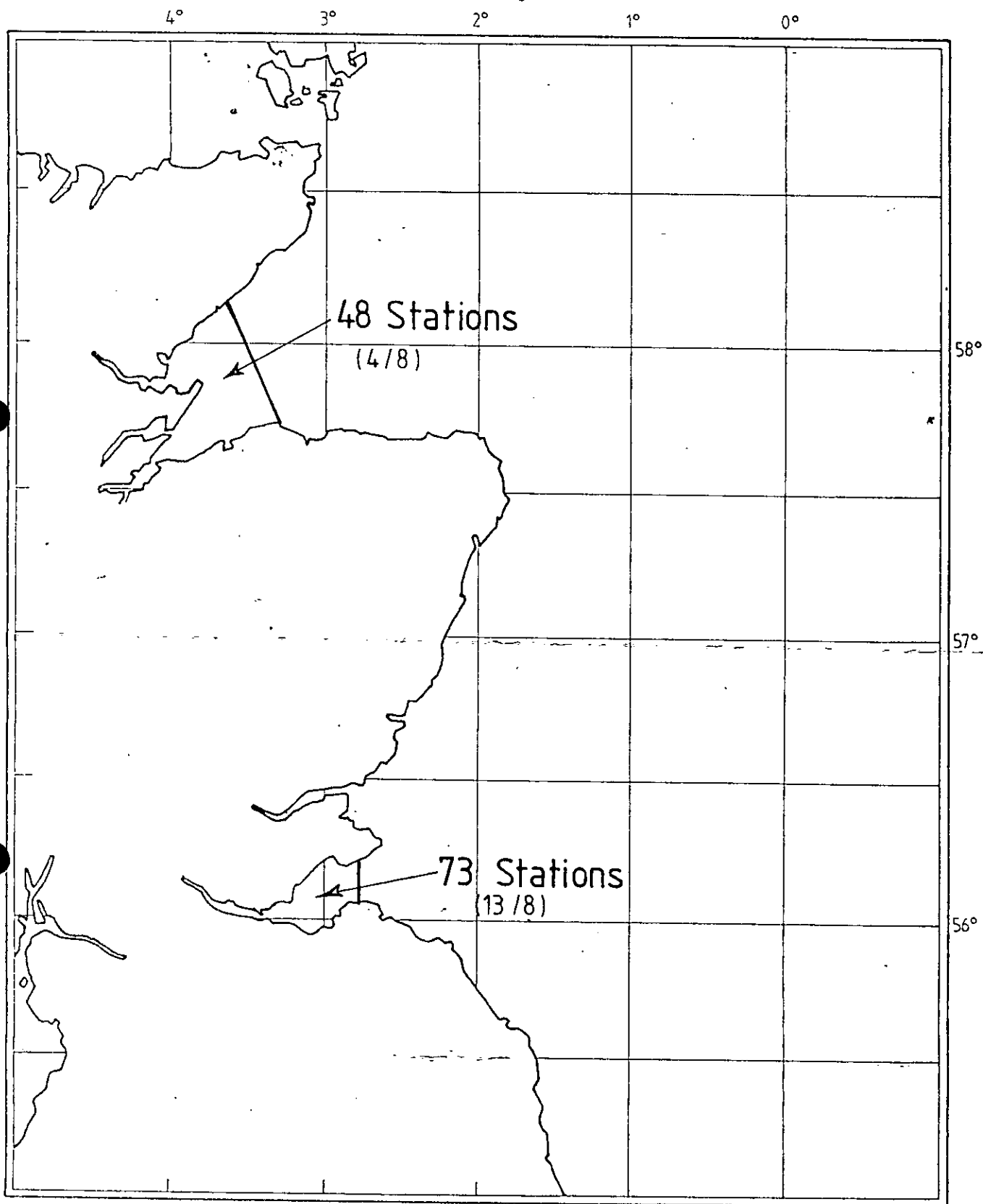
In the second part of the cruise, fishing was continued (using Agassiz trawls) west of Queensferry for 1½ days until damage to gear prevented further work. Hydrochemical surveys were then performed between Grangemouth and North Berwick, with particular emphasis upon areas of known inputs of nutrient elements, and areas of shallow water in the east of the survey area.

On 23/8/82, sediment cores were collected from a small boat on the edge of Kinneil mud-flat, and on 24/8/82 a further hydrochemical survey between Queensferry and Grangemouth was completed.

The scientific staff left the vessel in Granton on 24/8/82, and 'Goldseeker' was unloaded in Buckie on 30/8/82.

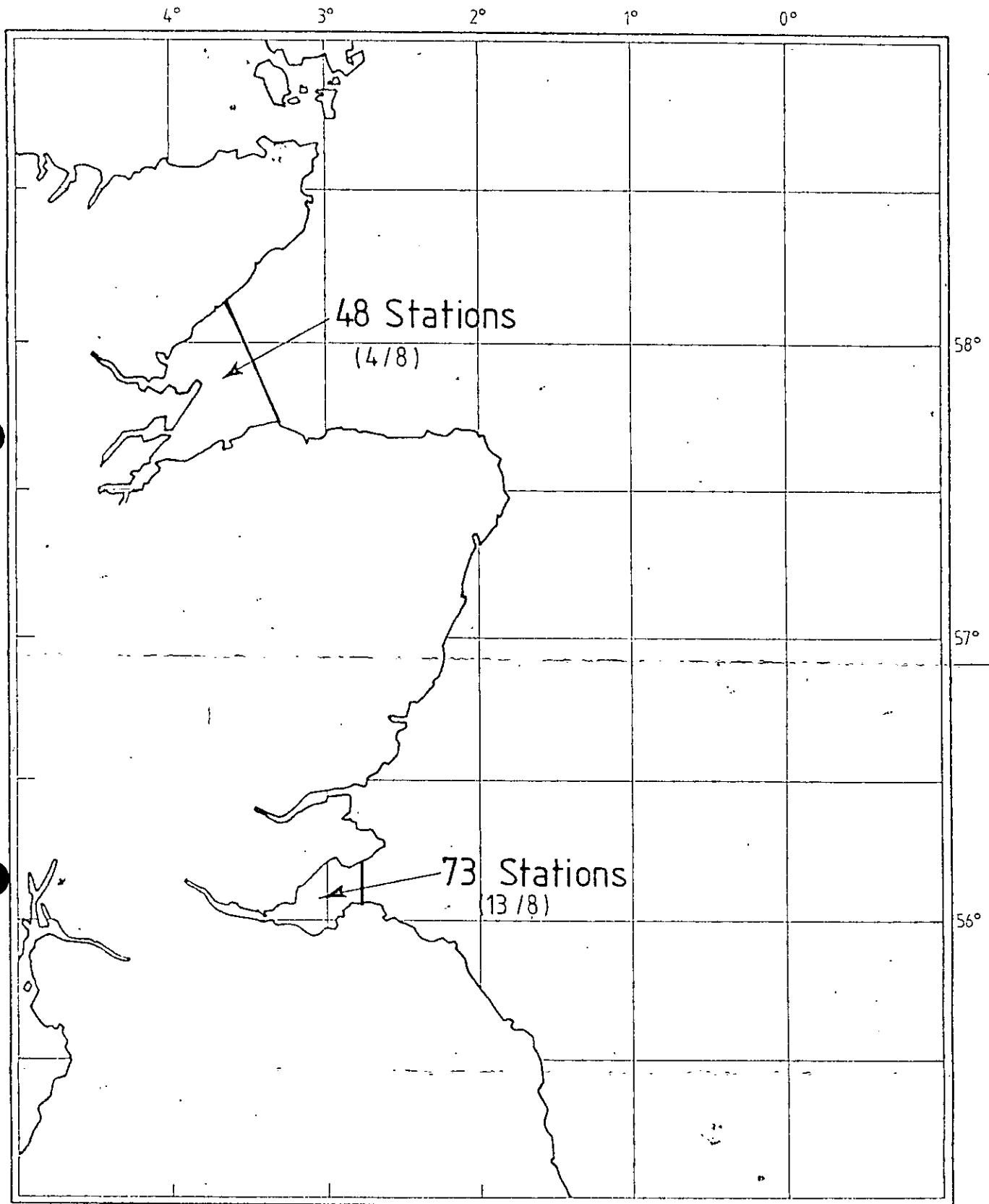
J C McKie
Ian M Davies
14 Sept 1982

Seen in draft
W B Reid



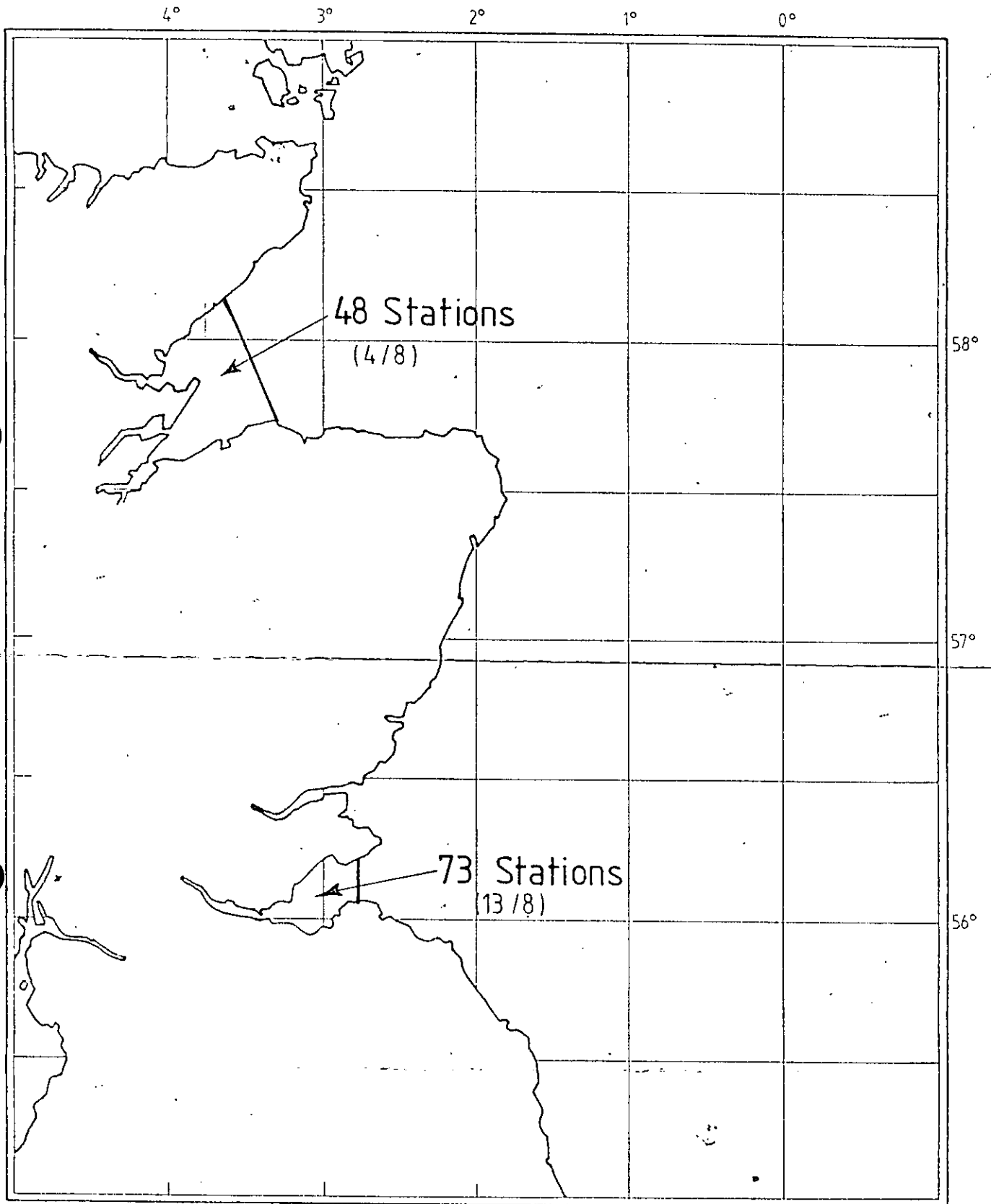
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