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IN CONFIDENCE - NOT TO BE QUOTED WITHOUT REFERENCE TO THE LABORATORY

CRUISE 3/82

GOLDSEEKER

3GR82

REPORT

8-31 March 1982

OBJECTIVES

- (1) To collect fish from the vicinity of the sewage sludge dumping ground at St Abb's Head for metal analysis.
- (2) To collect samples of water, sediment and biota for metal analysis in the outer part of the Firth of Forth, particularly in the coastal area between Edinburgh and Dunbar.
- (3) To collect water, sediment and biota for metal analysis in the upper reaches of the Firth of Forth, between the Forth Bridge and Grangemouth.

NARRATIVE

'Goldseeker' left Buckie at 1300 hrs on the 8 of March proceeding to the Forth, loading at Aberdeen en route. Adverse weather conditions delayed passage, enforced stops being made at Peterhead and Montrose on the 9 and 11 of March respectively. The ship arrived in the Forth on the 12 of March and berthed at Leith for the weekend. Scientific staff joined at Leith on the 14 March.

The sampling programme commenced on the 15 March and continued until the 30 March with only two days (16-17 March) being lost due to the loss of the ship's engineer on compassionate leave.

RESULTS

No attempt was made to sample at the St Abb's Head sewage sludge dumping ground because of the poor prevailing weather conditions.

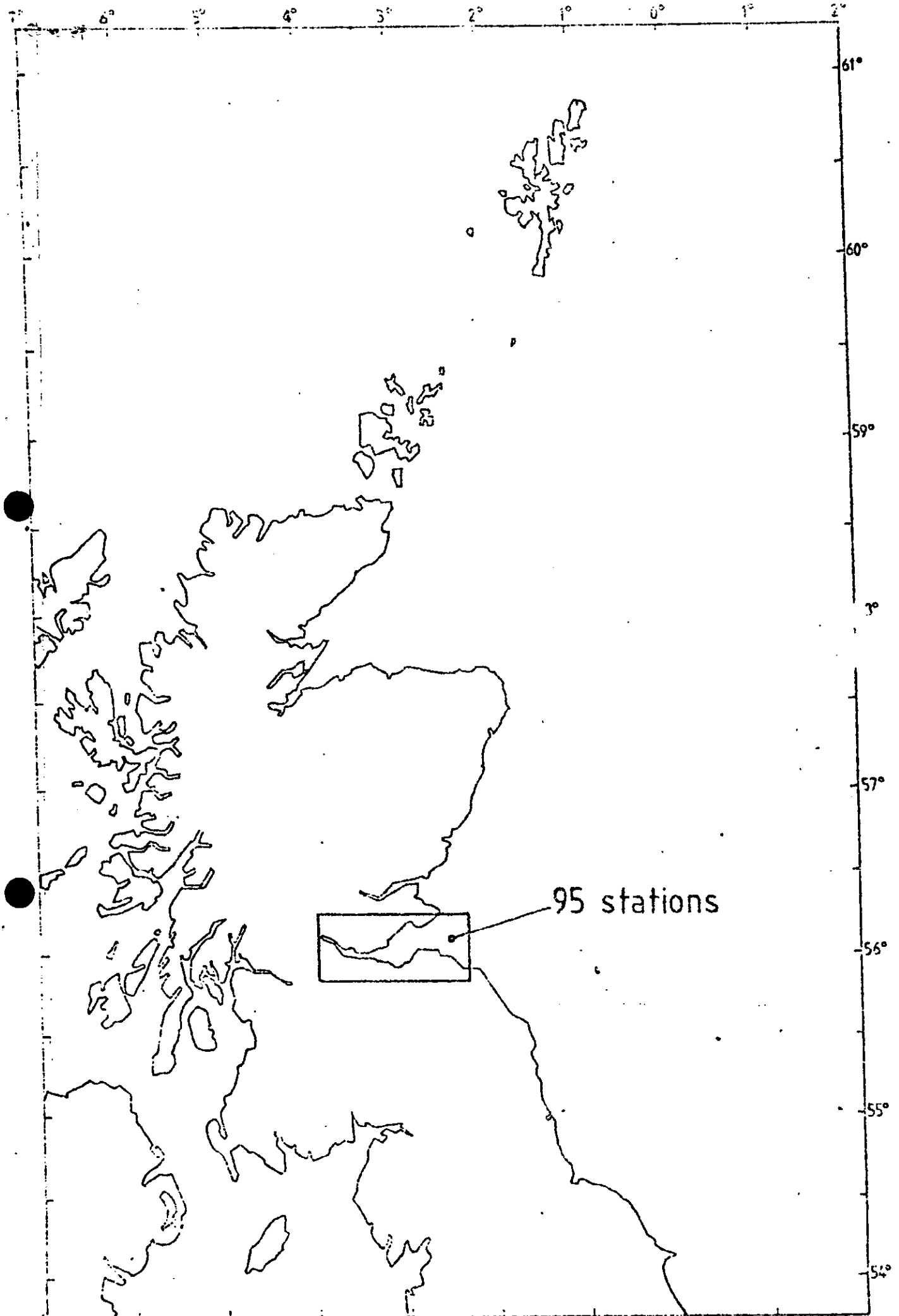
Extensive sampling of both the outer and inner Forth, mainly along the south shore, was completed using the Stonehaven and Agassiz trawls. Samples of fish and benthos were obtained for metal analysis yet to be completed.

Two grab surveys in the Granton-Jappa and Crammond-Leith areas were completed. The sediment samples, which were obtained during these operations are to be analysed for particle size and metal content.

A hydrographic survey from Granton to Fidra was completed, to assess the effects of near shore water movement. Initial results show the normal winter levels of nitrate 8-20 $\mu\text{g at/l}$ with temperatures in the range 4.9-5.3^oC.

J.M. Pirie
I.M. Davies
28 April 1982

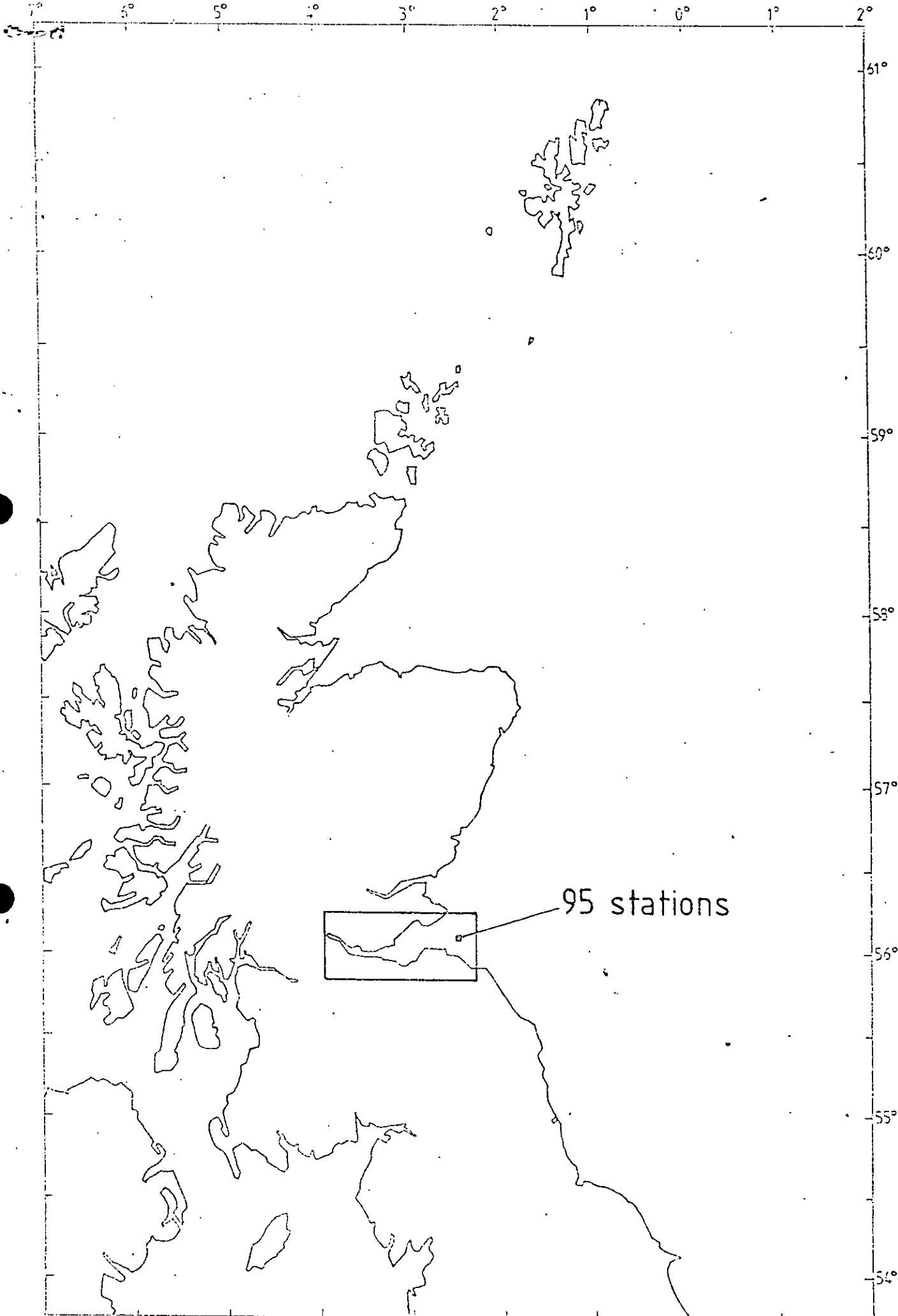
Seen in draft: W.B. Reid
OIC 'Goldseeker'



95 stations

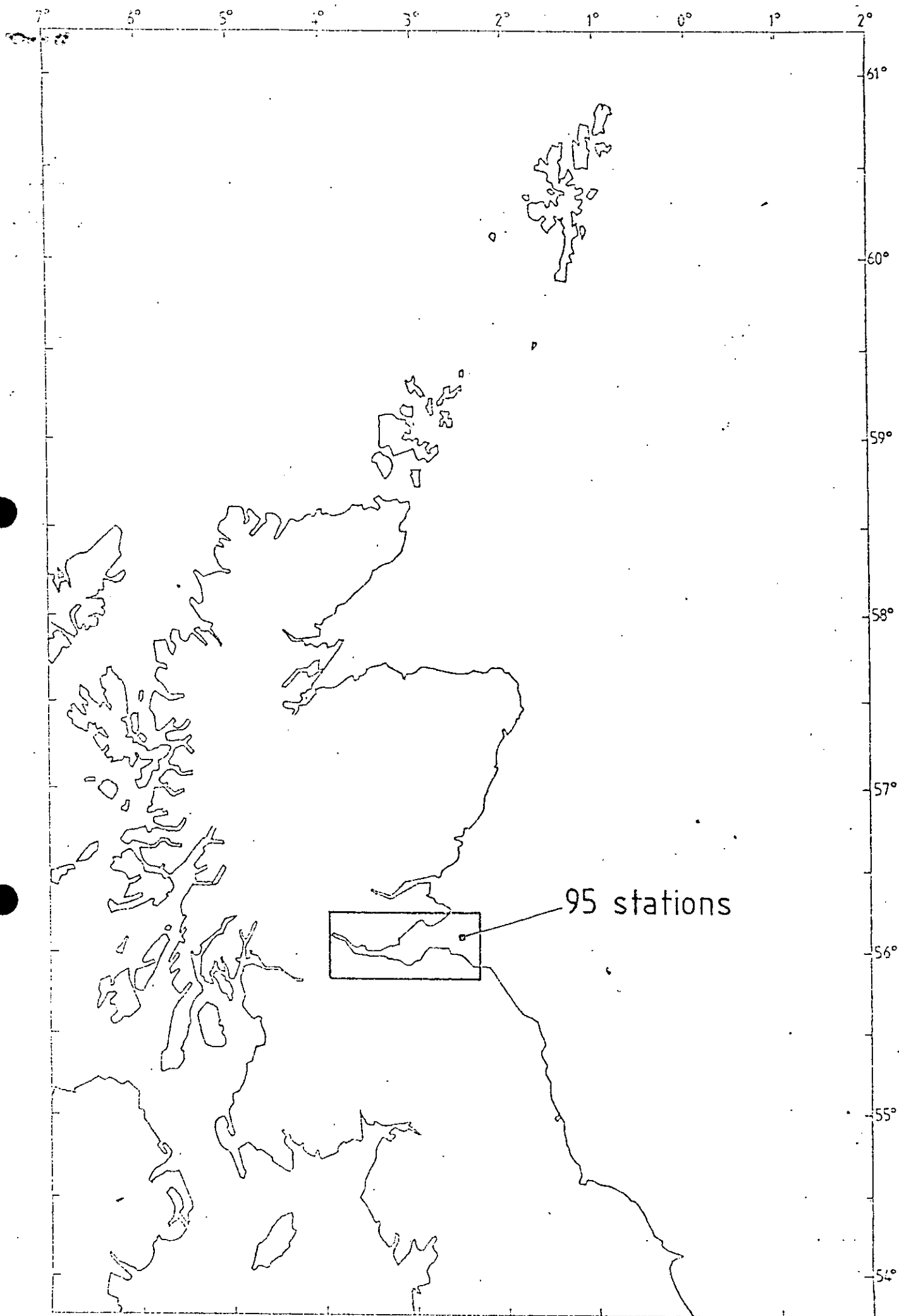
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