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T6639E

ENCLOSURES

Please Note -

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The Geochem Group Ltd
Chester Street
Chester
CH4 8RD
Tel : 0244 677626 ext. 332.

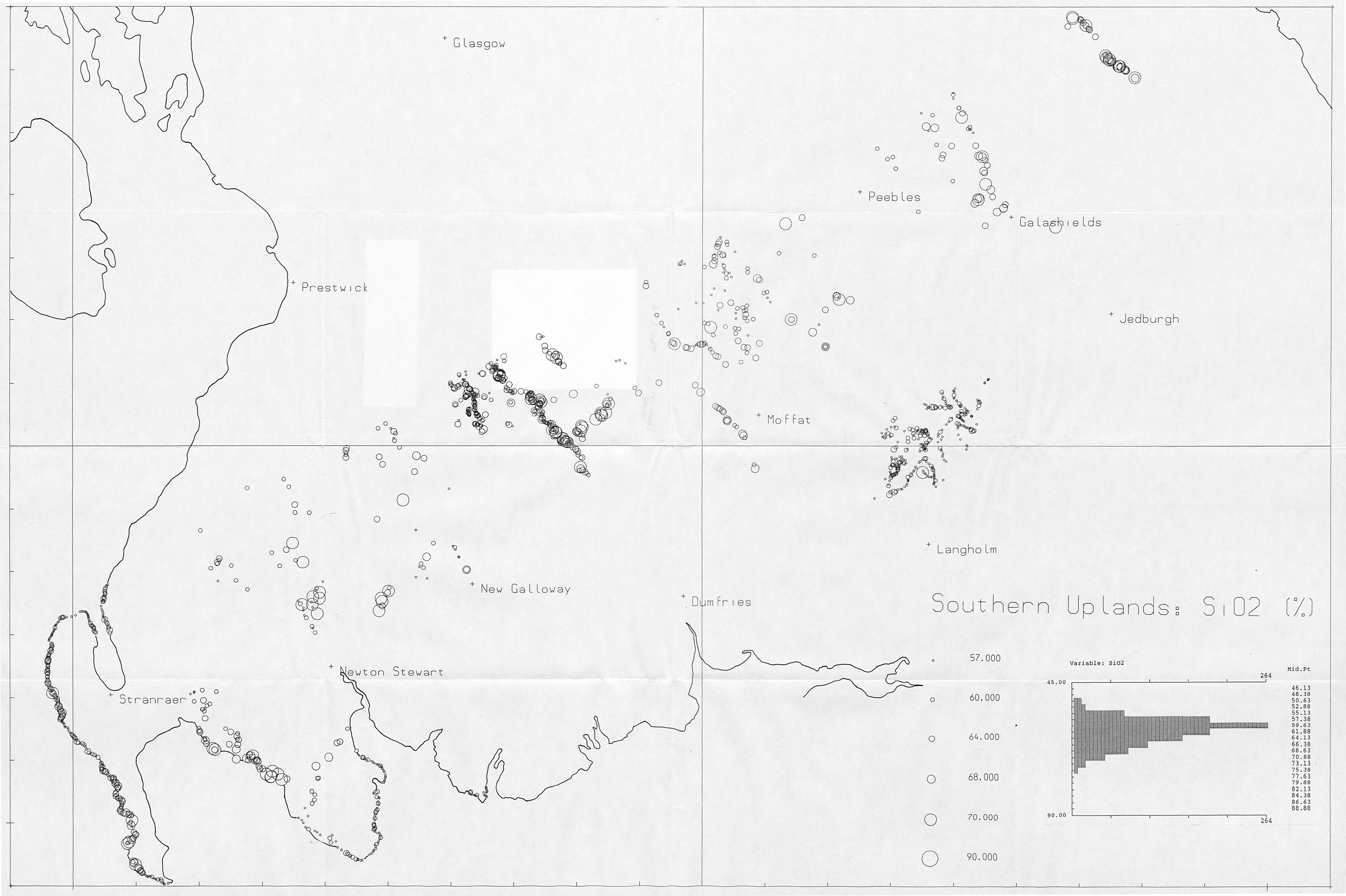
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: SiO₂ (%)

1:250,000

ENCLOSURE : 1

T6639E



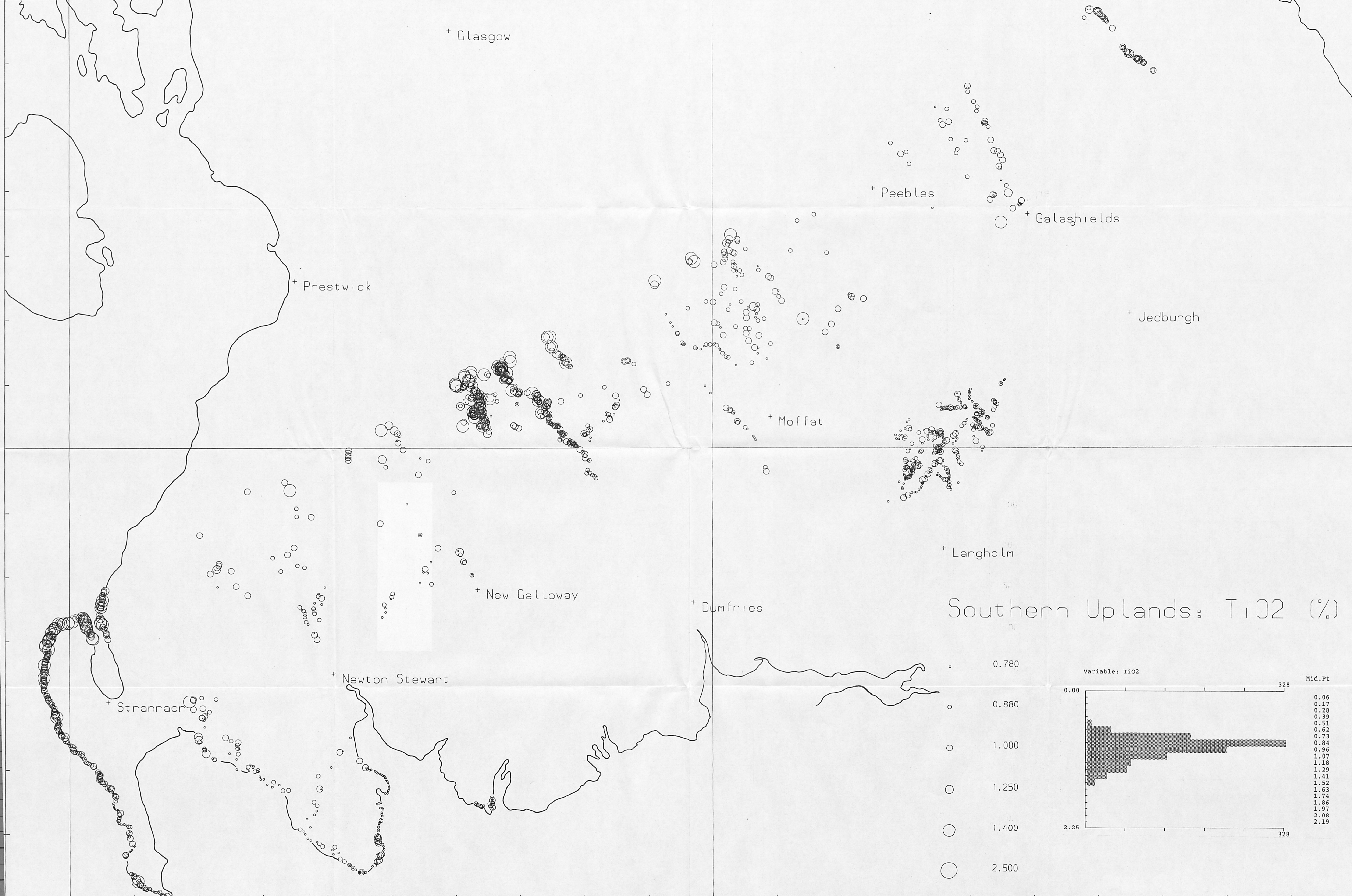


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

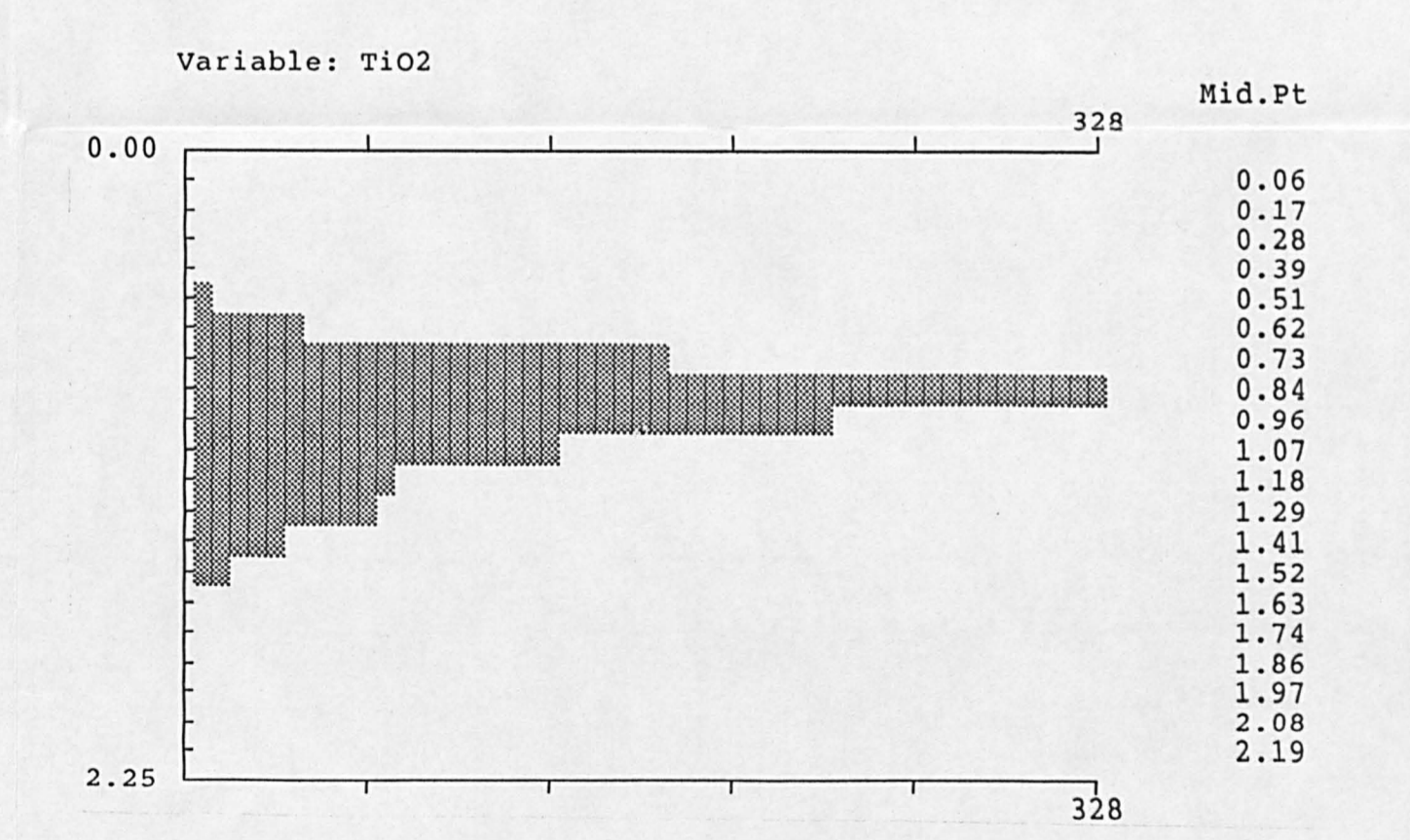
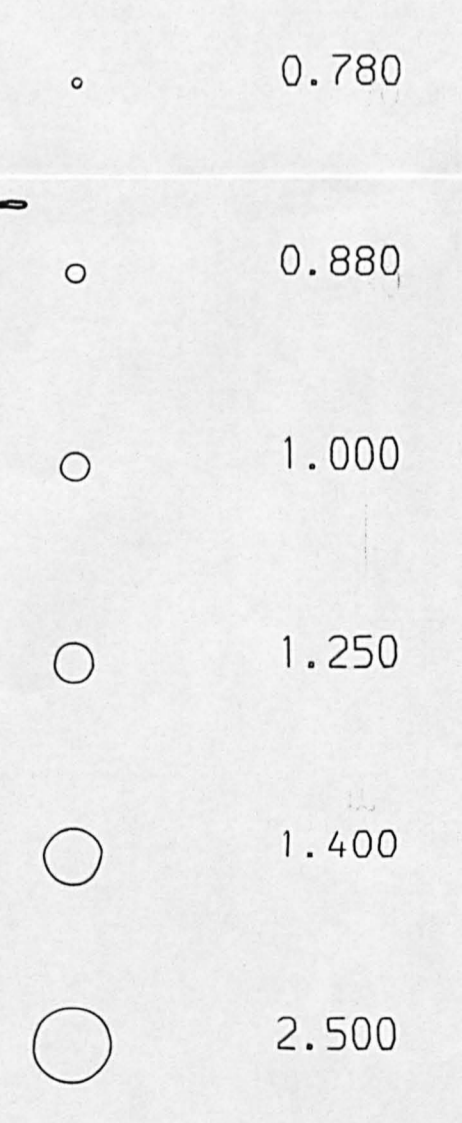
ELEMENT: TiO_2 (%) 1:250,000

ENCLOSURE : 2

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Southern Uplands: TiO₂ (%)

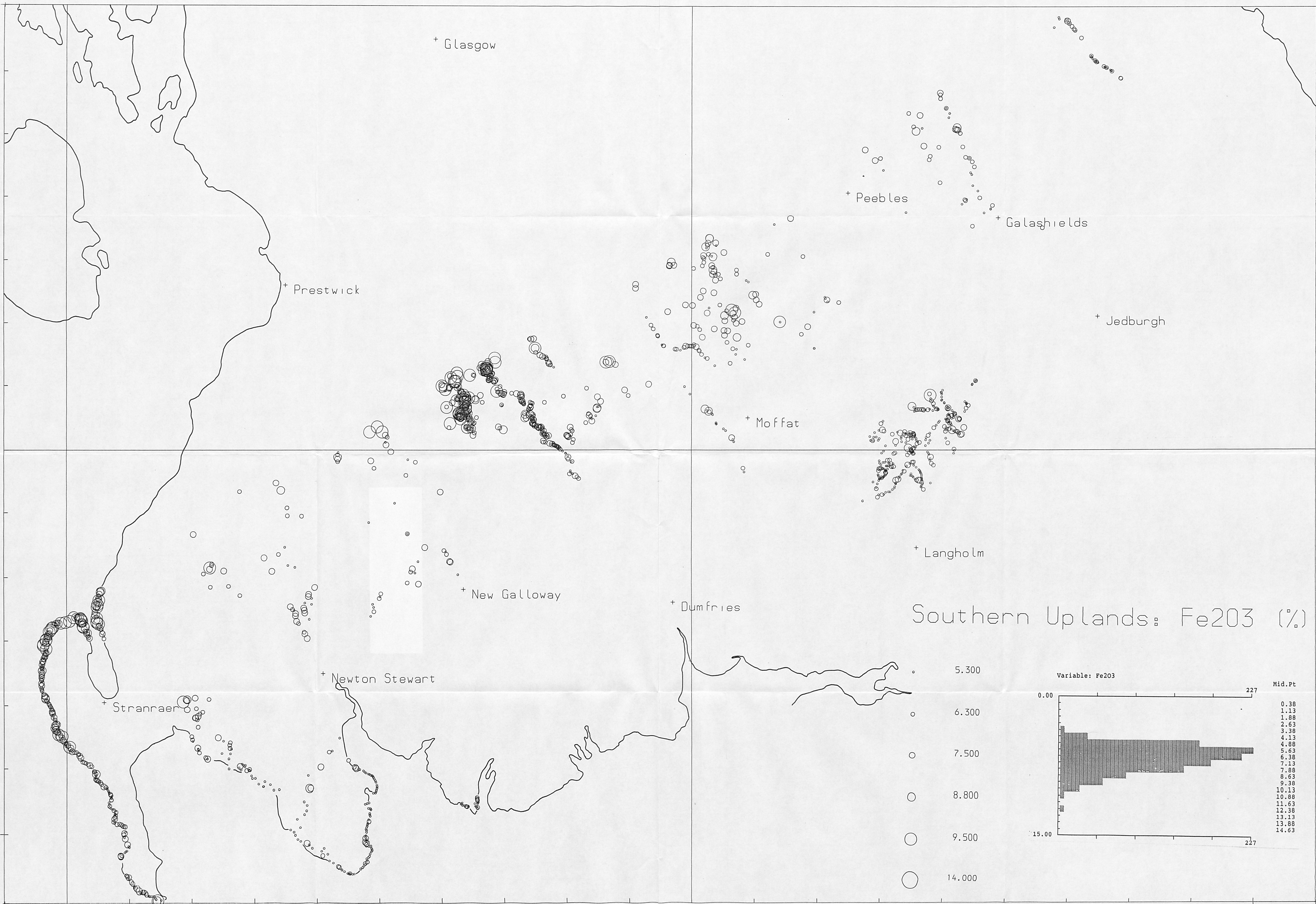


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Fe_2O_3 (%) 1:250,000

ENCLOSURE : 3

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+ Glasgow

+ Peebles

+ Galashields

+ Prestwick

+ Jedburgh

+ Moffat

+ Langholm

+ New Galloway

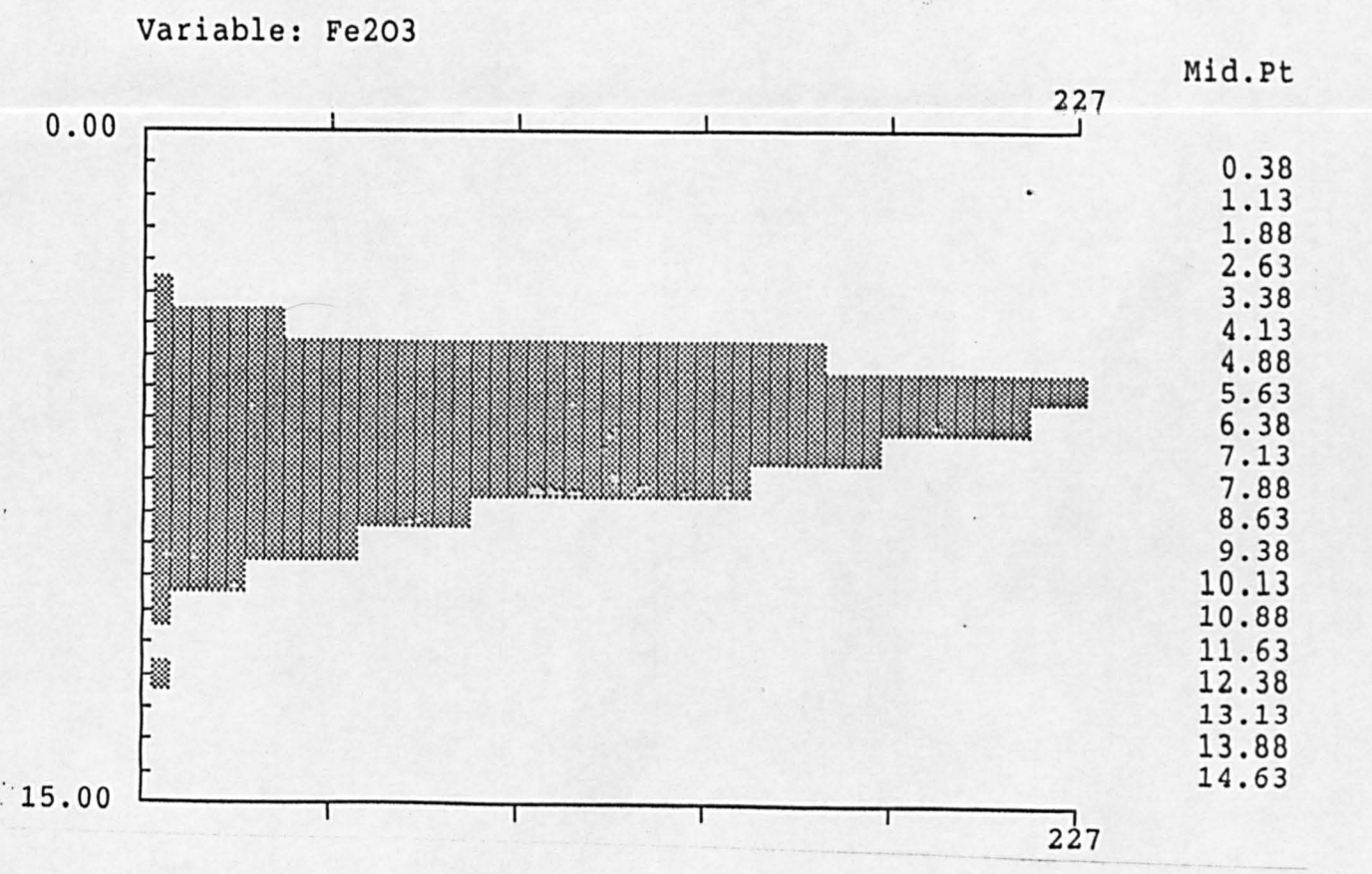
+ Dumfries

Southern Uplands: Fe₂O₃ (%)

+ Newton Stewart

+ Stranraer

- 5.300
- 6.300
- 7.500
- 8.800
- 9.500
- 14.000



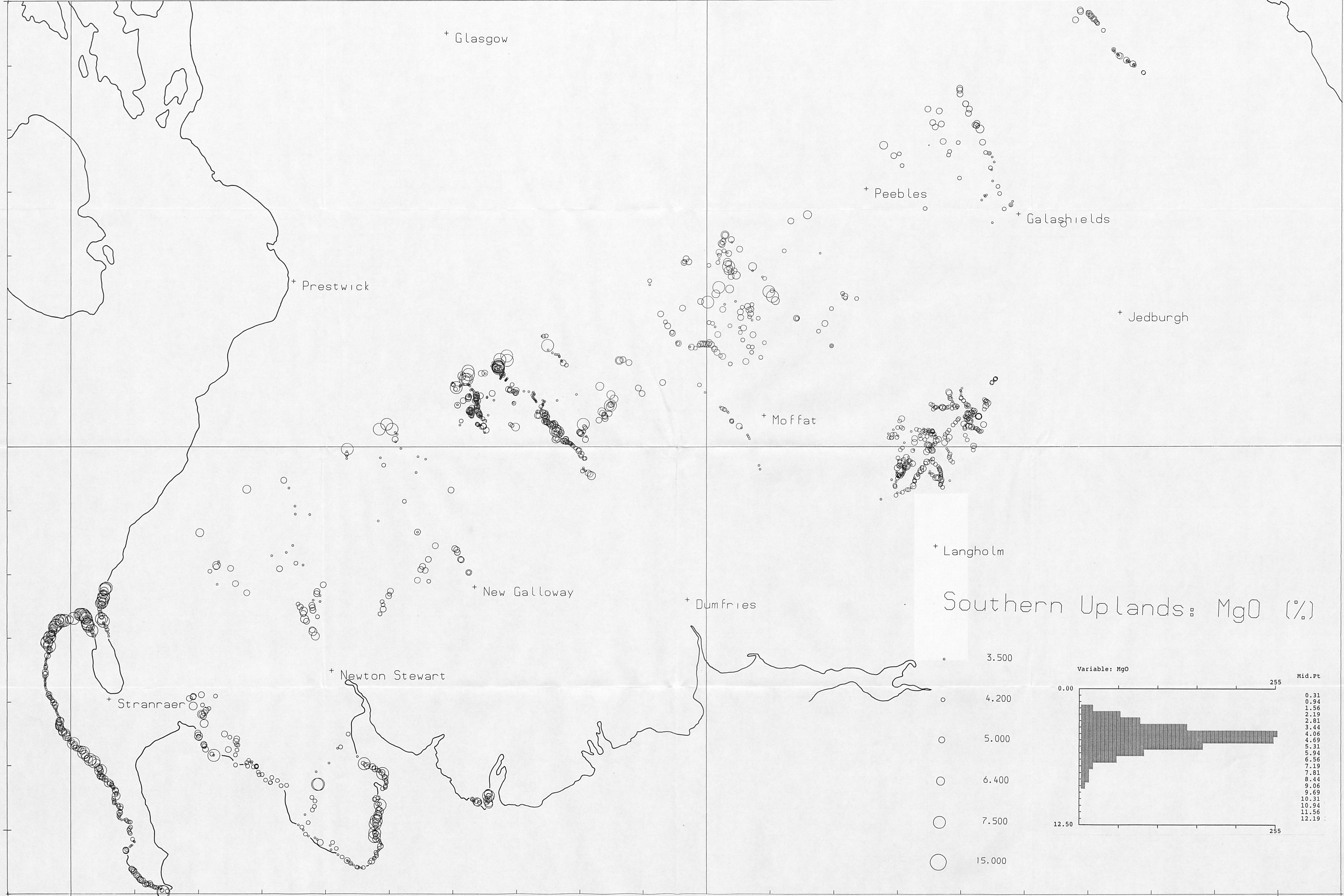
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: MgO (%)

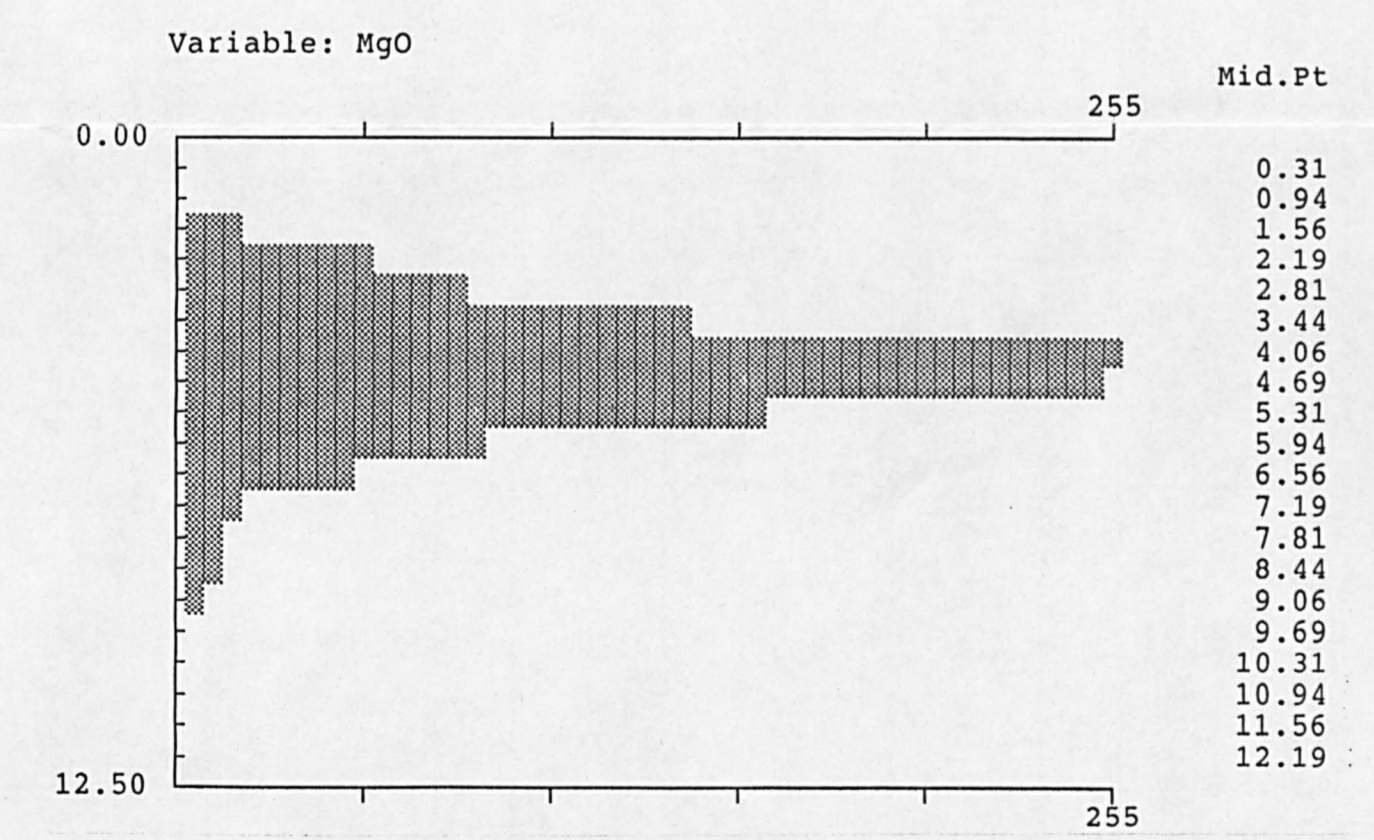
1:250,000

ENCLOSURE : 4

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Southern Uplands: MgO (%)

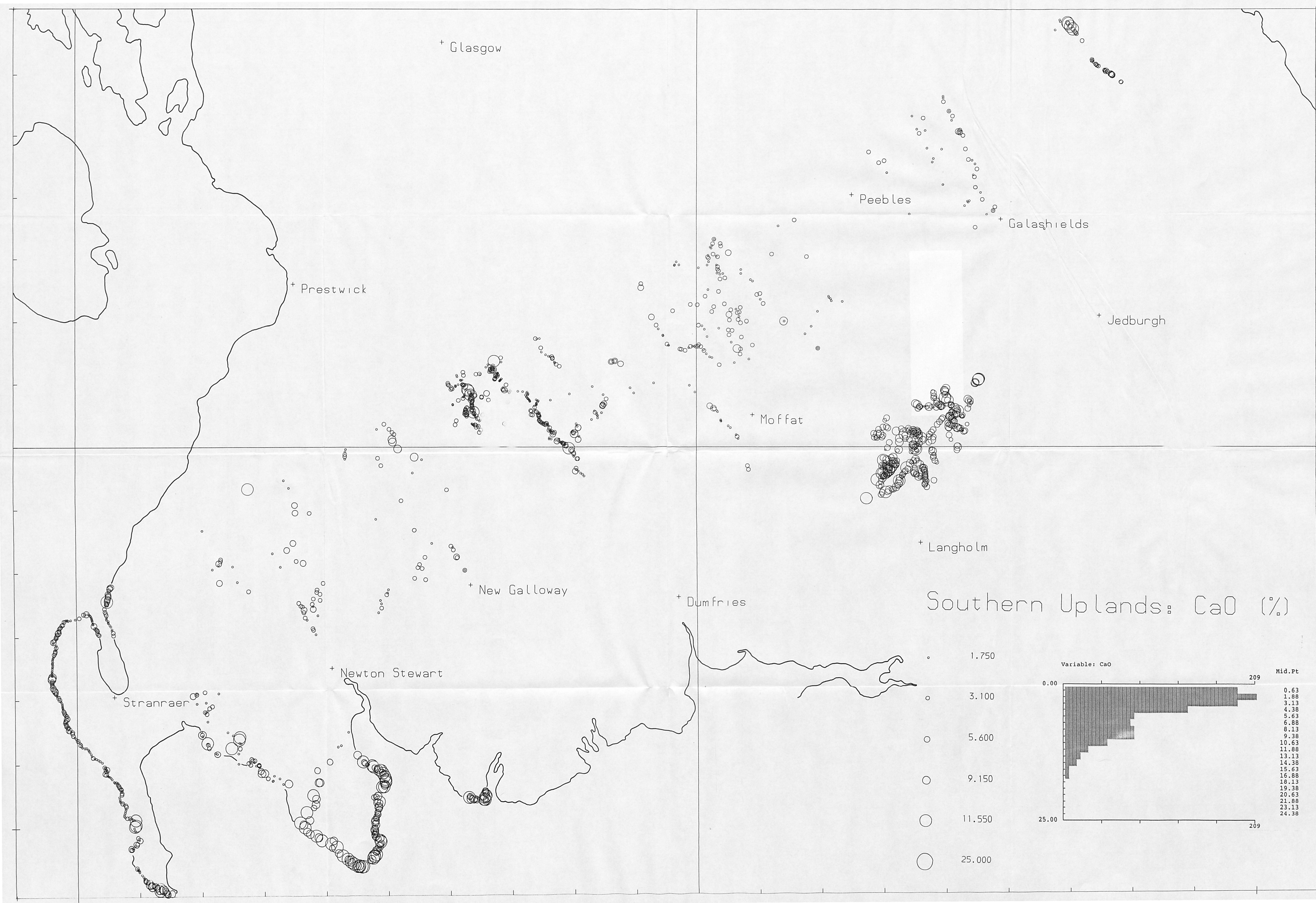


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: CaO (%) 1:250,000

ENCLOSURE : 5

T6639E



+ Glasgow

+ Peebles

+ Galashiels

+ Prestwick

+ Jedburgh

+ Moffat

+ Langholm

+ New Galloway

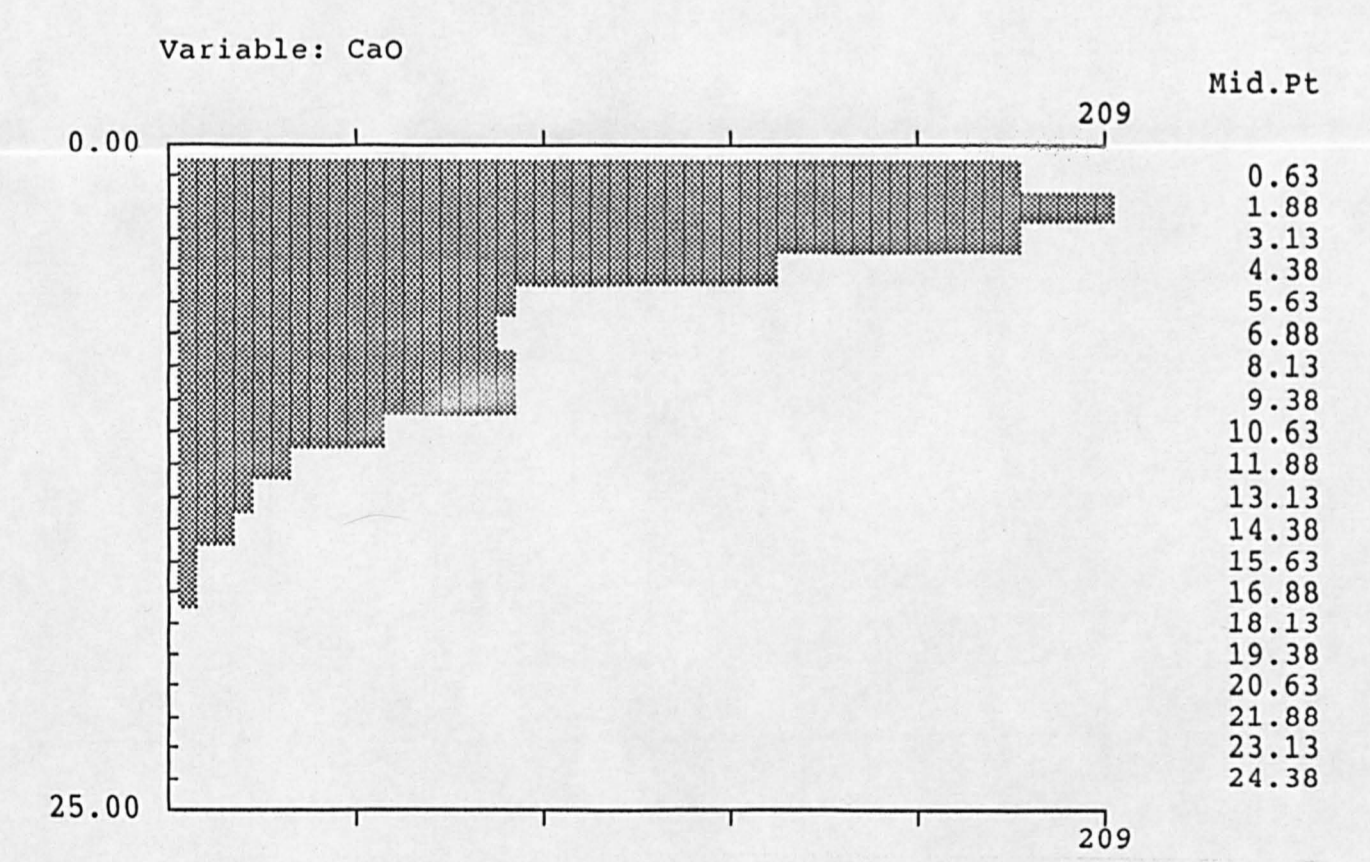
+ Dumfries

Southern Uplands: CaO (%)

+ Stranraer

+ Newton Stewart

- 1.750
- 3.100
- 5.600
- 9.150
- 11.550
- 25.000

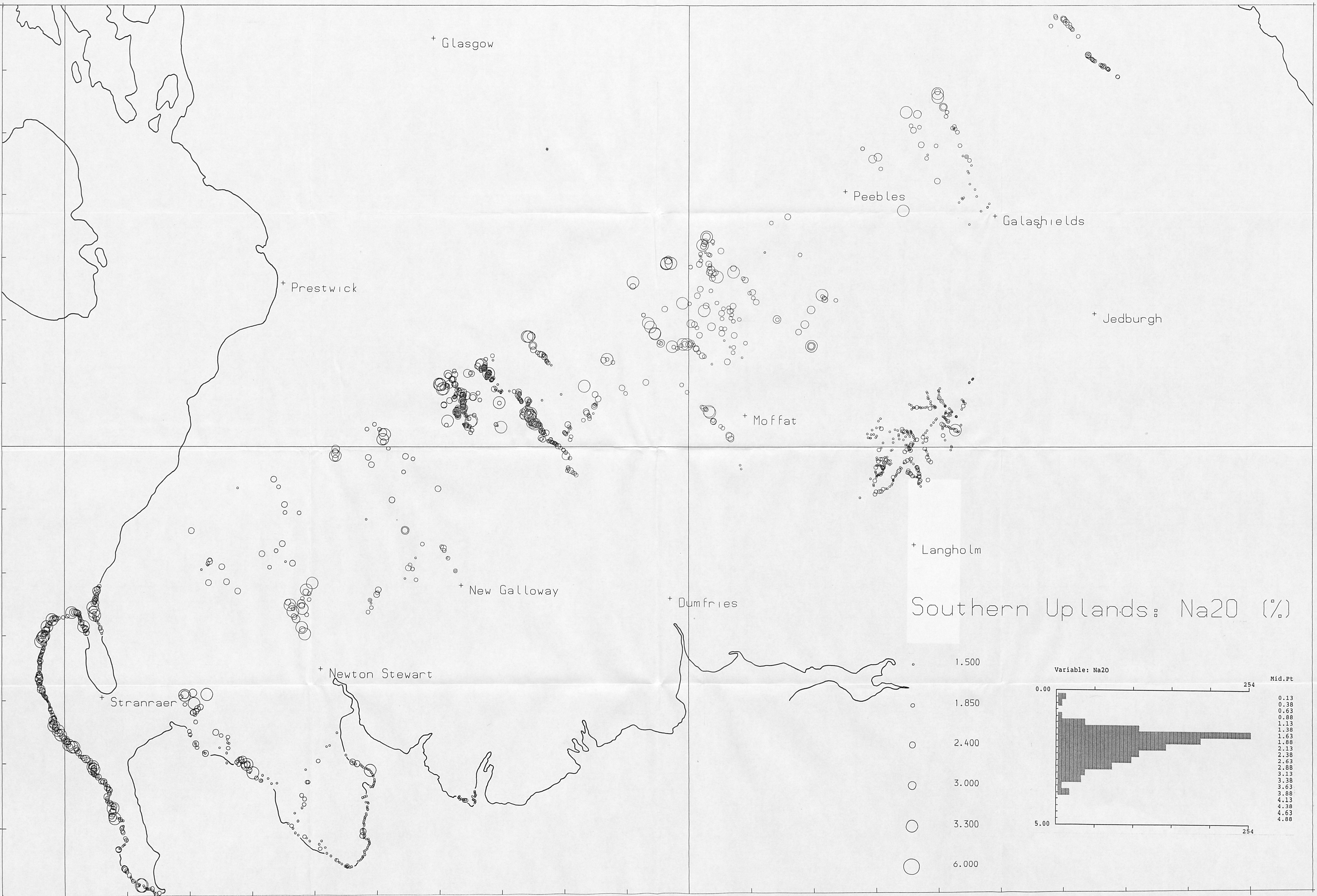


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

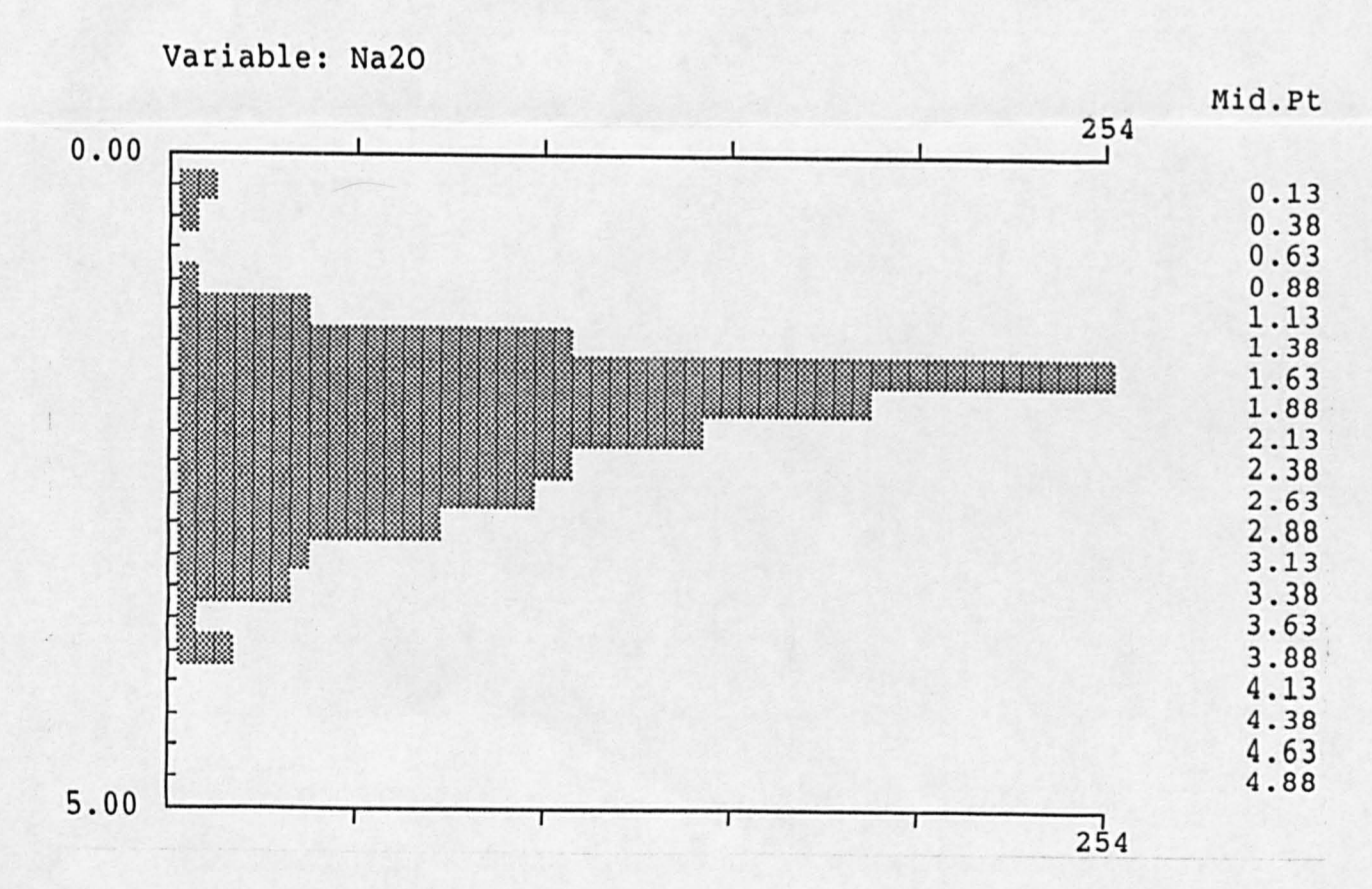
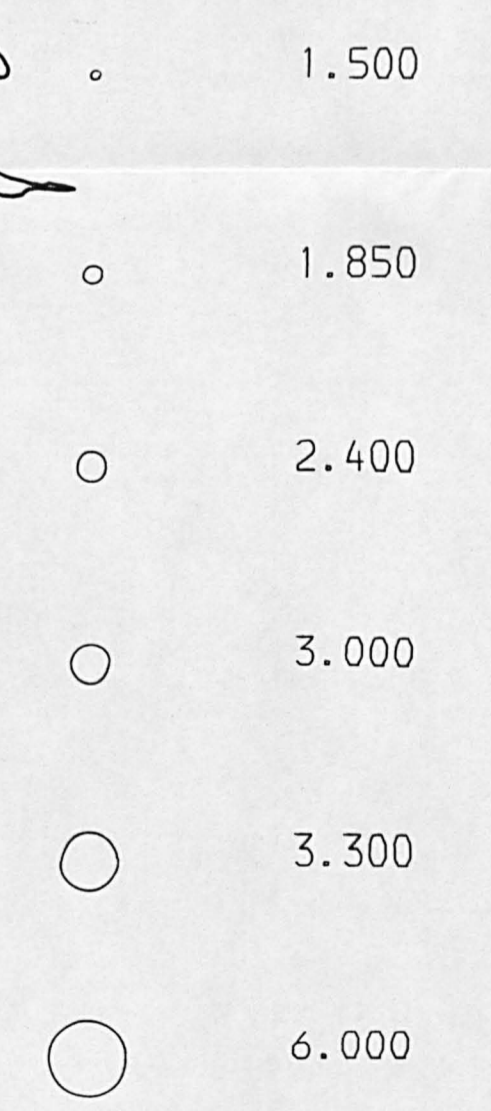
ELEMENT: Na_2O (%) 1:250,000

ENCLOSURE : 6

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Southern Uplands: Na₂O (%)

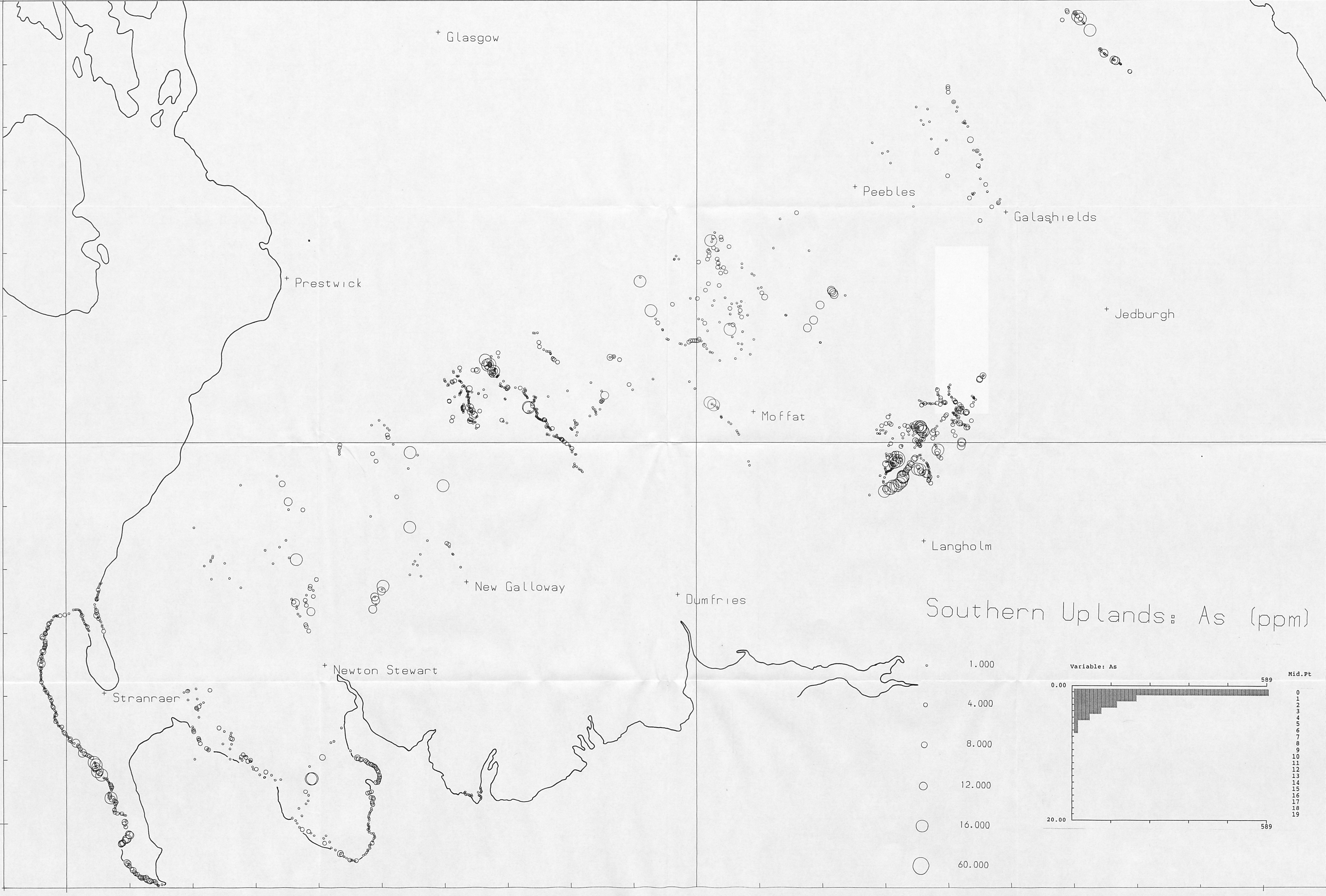


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: As (ppm) 1:250,000

ENCLOSURE : 7

T6639E



+ Glasgow

+ Prestwick

+ Stranraer

+ Newton Stewart

+ New Galloway

+ Dumfries

+ Moffat

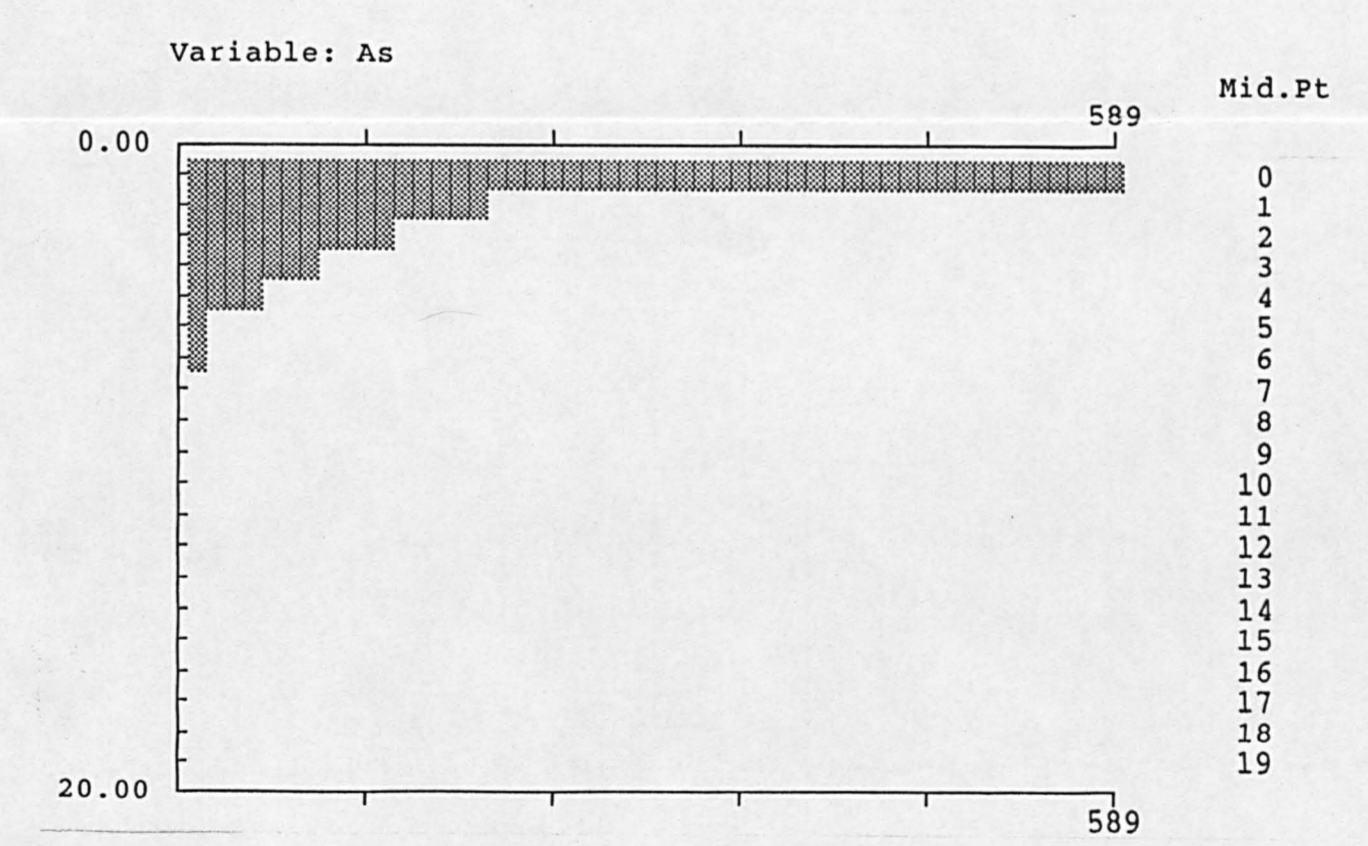
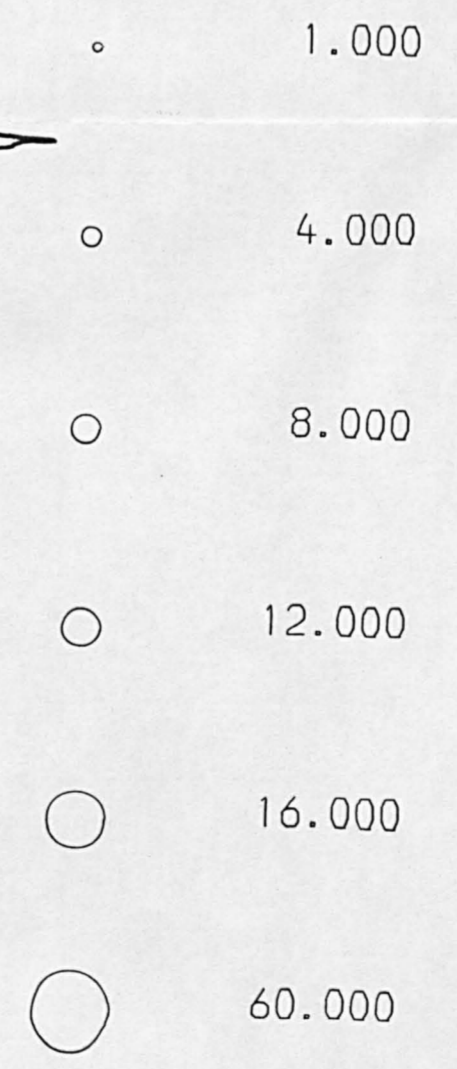
+ Langholm

+ Peebles

+ Galashiels

+ Jedburgh

Southern Uplands: As (ppm)



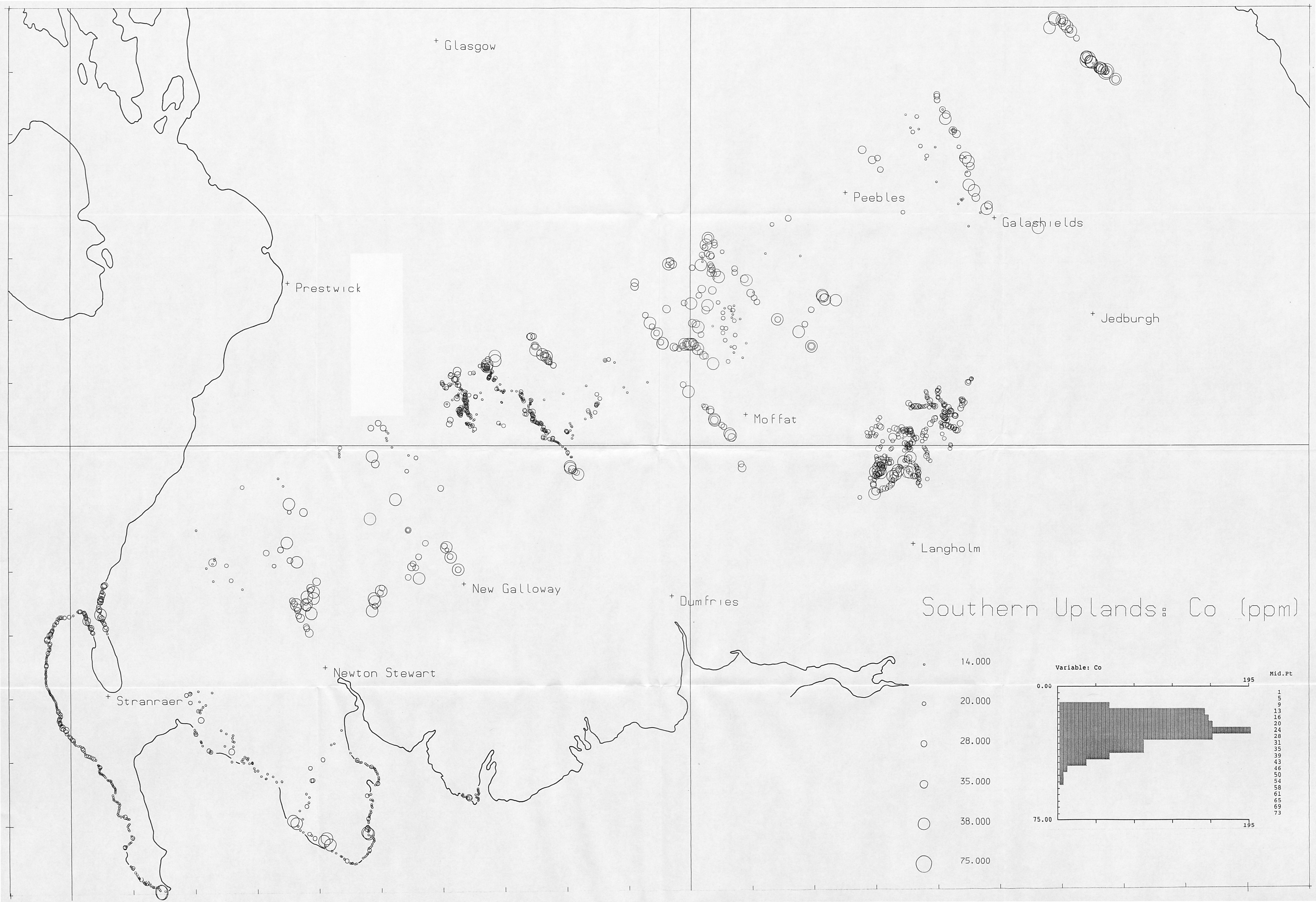
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Co (ppm)

1:250,000

ENCLOSURE : 8

T6639E



+ Glasgow

+ Peebles

+ Galashiels

+ Prestwick

+ Jedburgh

+ Moffat

+ Langholm

Southern Uplands: Co (ppm)

+ New Galloway

+ Dumfries

+ Newton Stewart

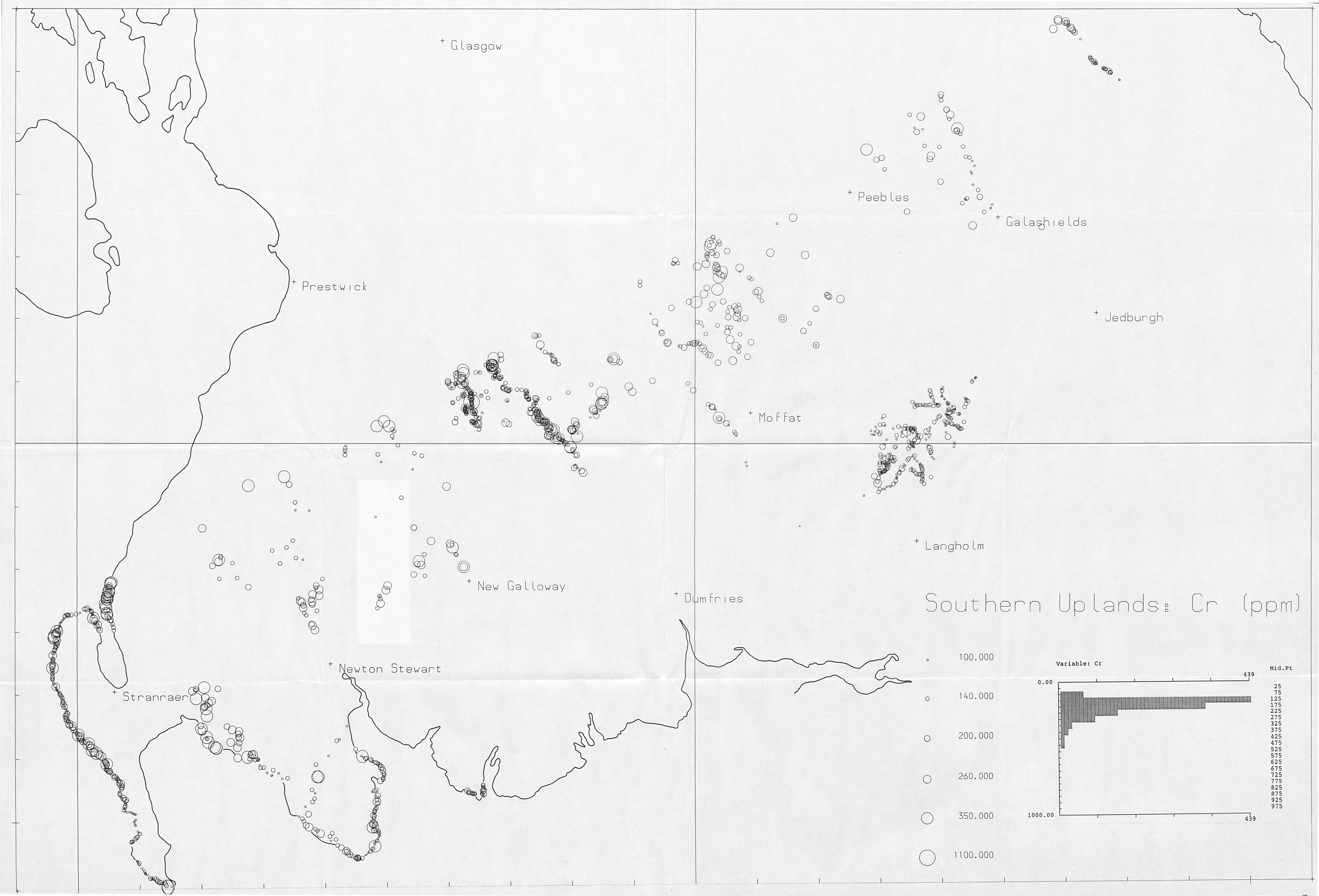
+ Stranraer

SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Cr (ppm) 1:250,000

ENCLOSURE : 9

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2010/10/25

La

SOUTHERN UPLANDS GEOCHEMICAL ATLAS

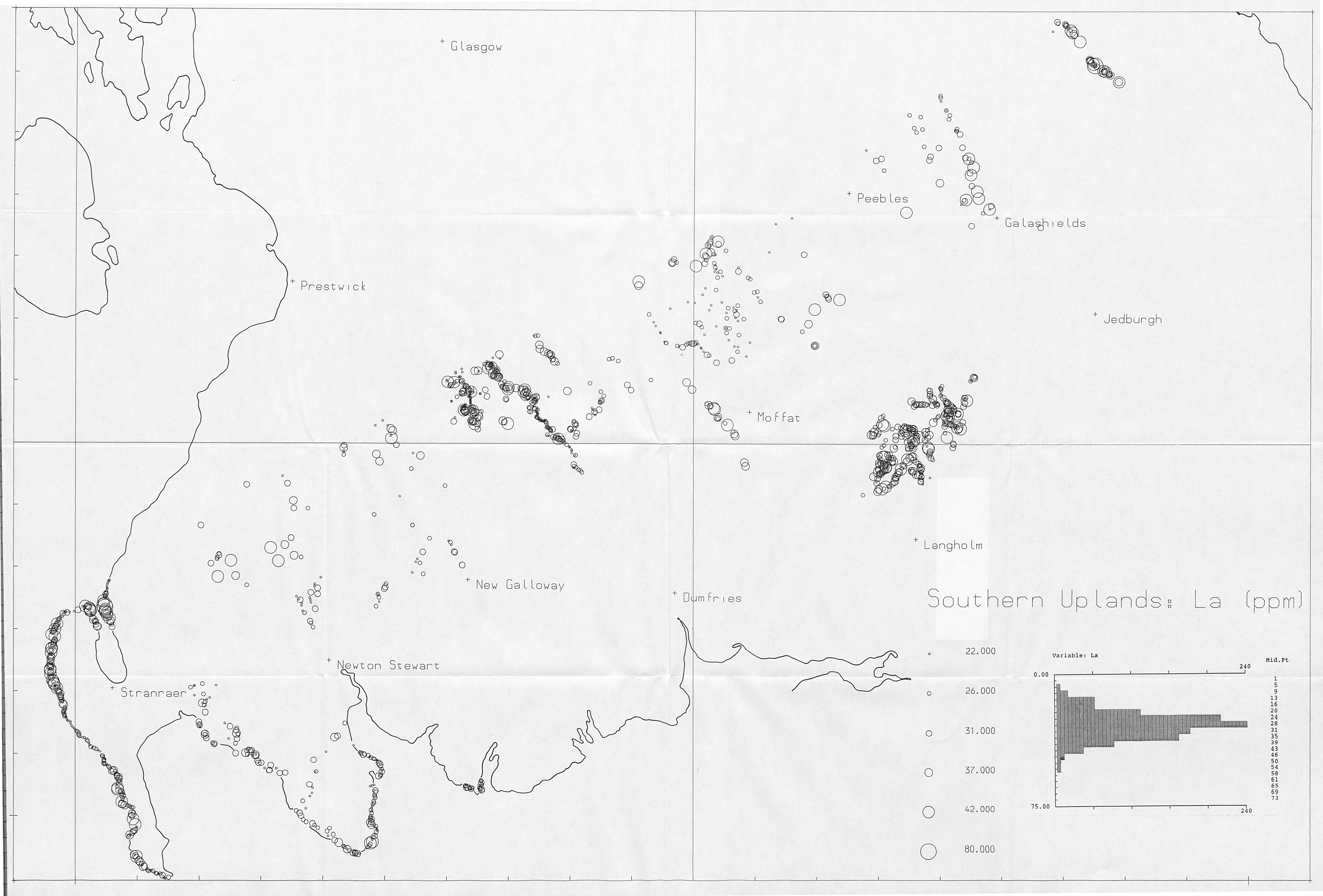
ELEMENT: La (ppm)

1:250,000

ENCLOSURE : 10

T6639E

2010/10/25
55:000



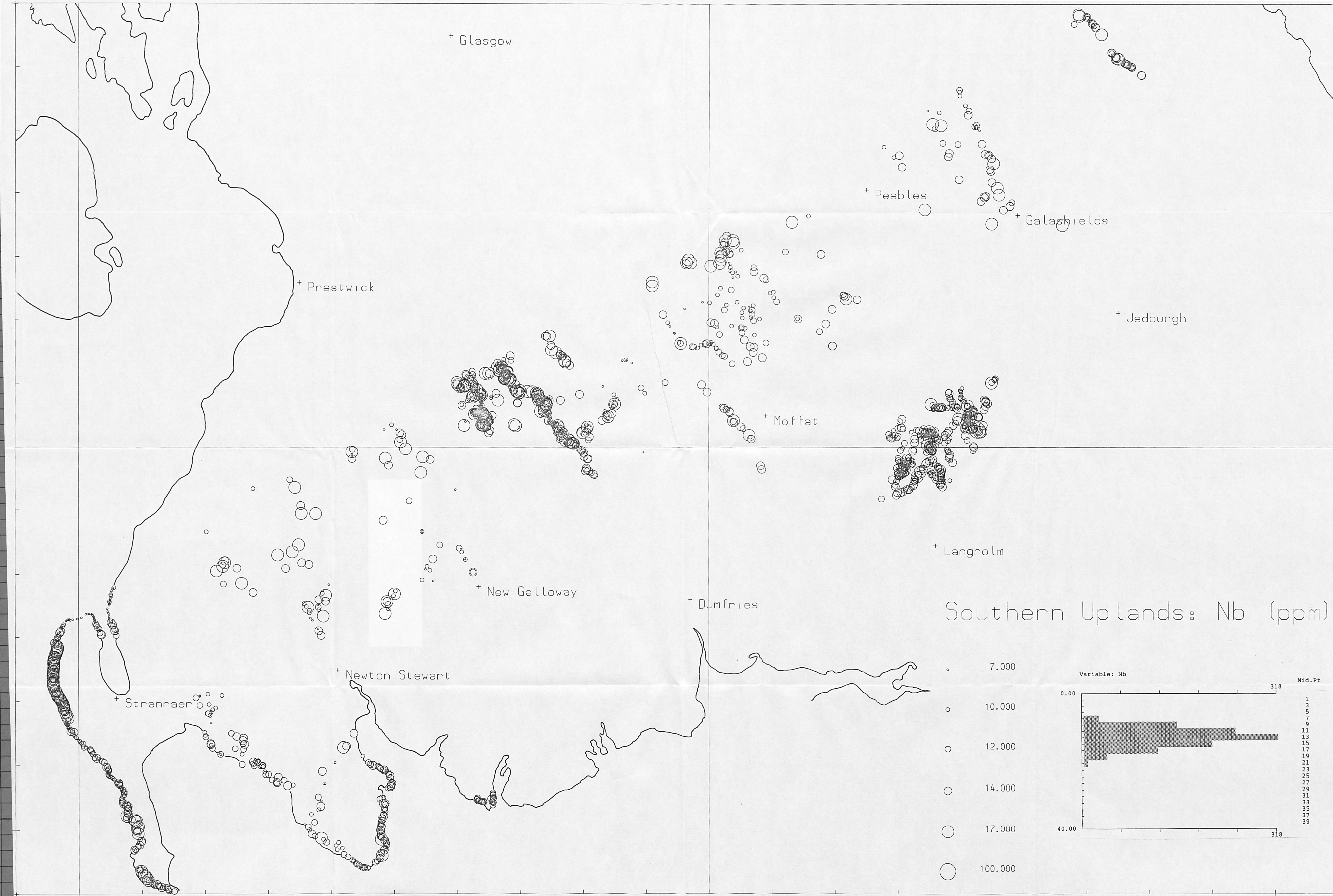
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Nb (ppm)

1:250,000

ENCLOSURE : 11

T6639E



+ Glasgow

+ Peebles

+ Galashiels

+ Prestwick

+ Jedburgh

+ Moffat

+ Langholm

+ New Galloway

+ Dumfries

Southern Uplands: Nb (ppm)

+ Newton Stewart

7.000

Variable: Nb

10.000

0.00

12.000

318

14.000

Mid.Pt

17.000

1

100.000

3

5

7

9

11

13

15

17

19

21

23

25

27

29

31

33

35

37

39

40.00

318

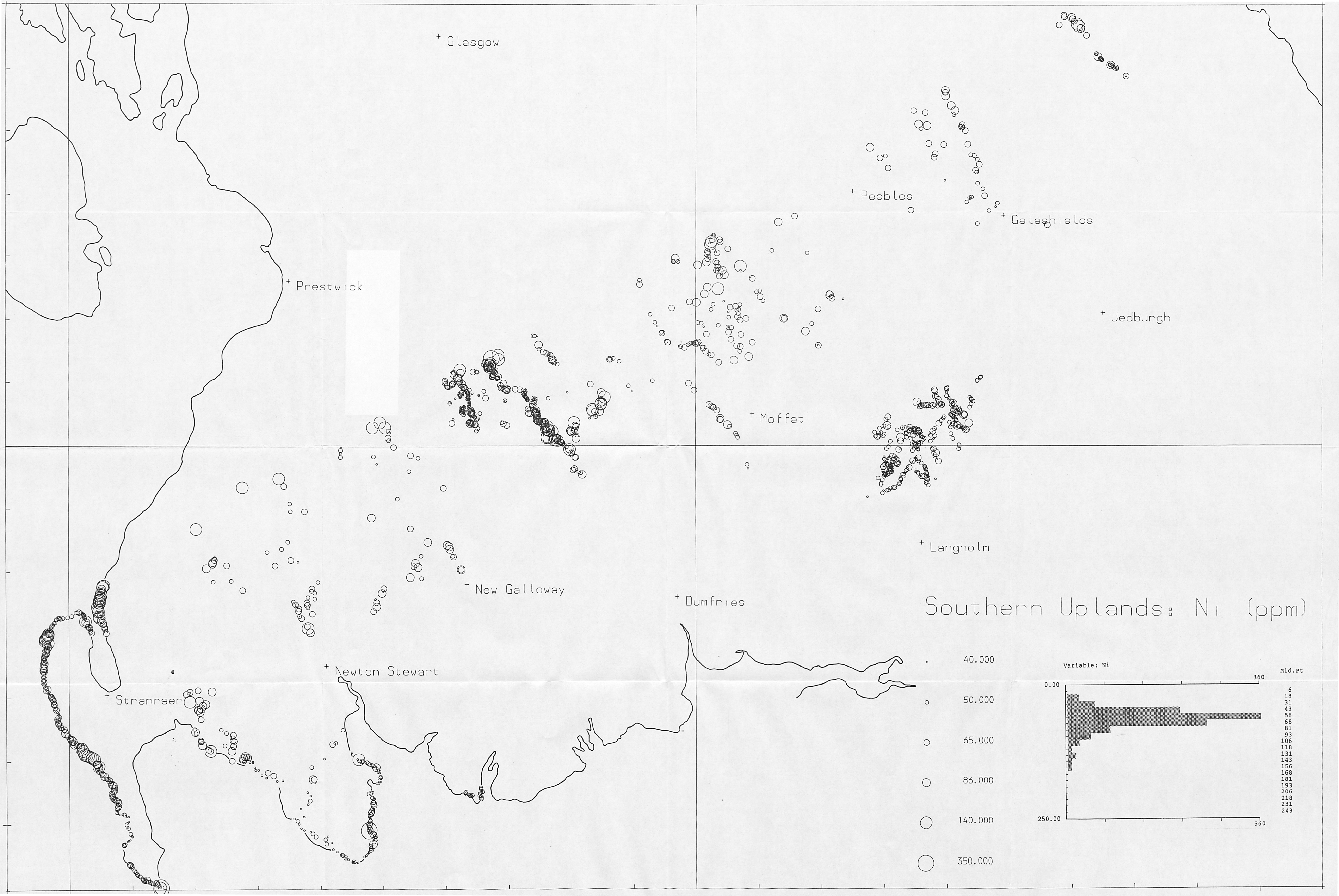
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Ni (ppm)

1:250,000

ENCLOSURE : 12

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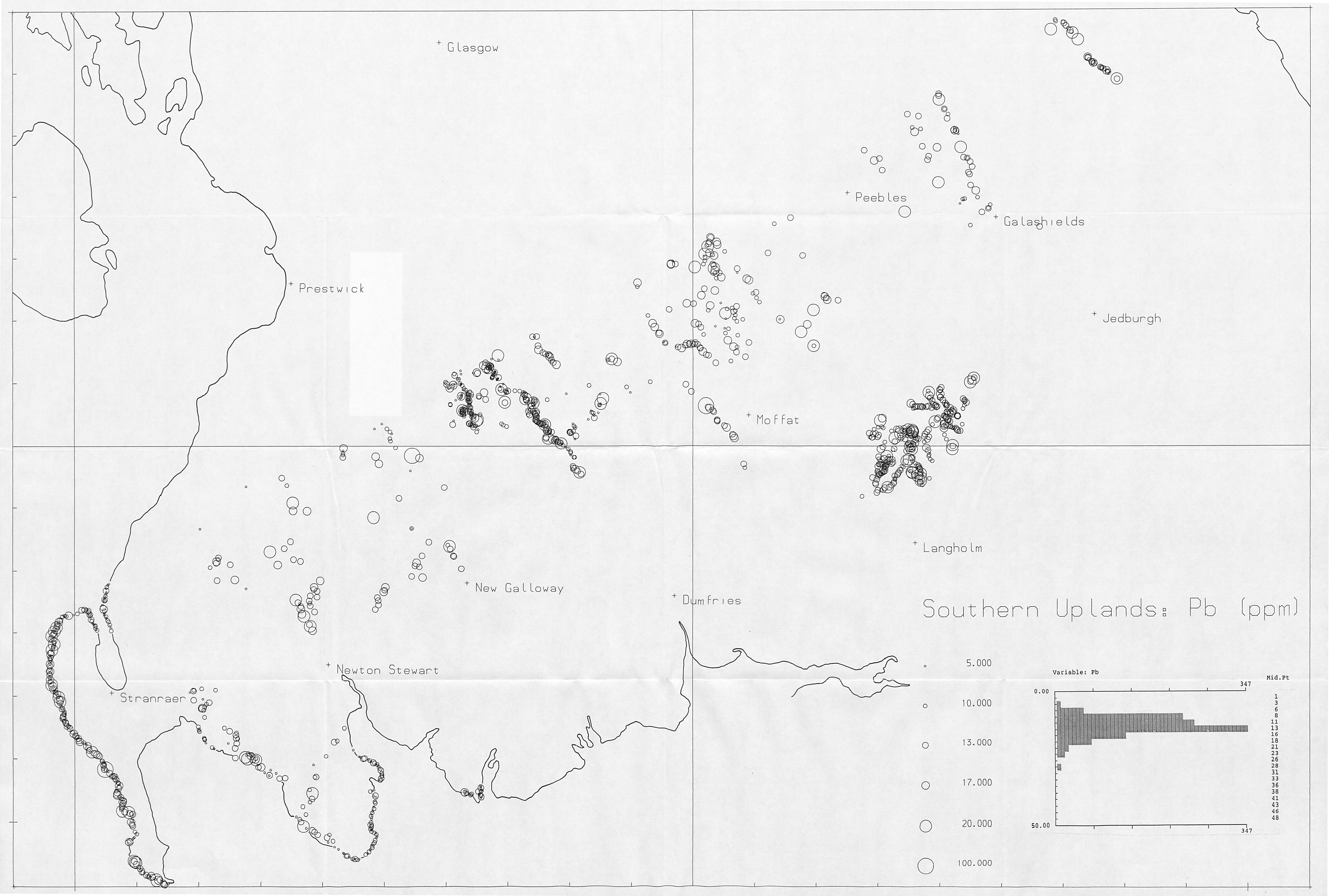
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Pb (ppm)

1:250,000

ENCLOSURE : 13

T6639E



+ Glasgow

+ Peebles

+ Galashields

+ Prestwick

+ Jedburgh

+ Moffat

+ Langholm

+ New Galloway

+ Dumfries

Southern Uplands: Pb (ppm)

+ Stranraer

+ Newton Stewart

○ 5.000

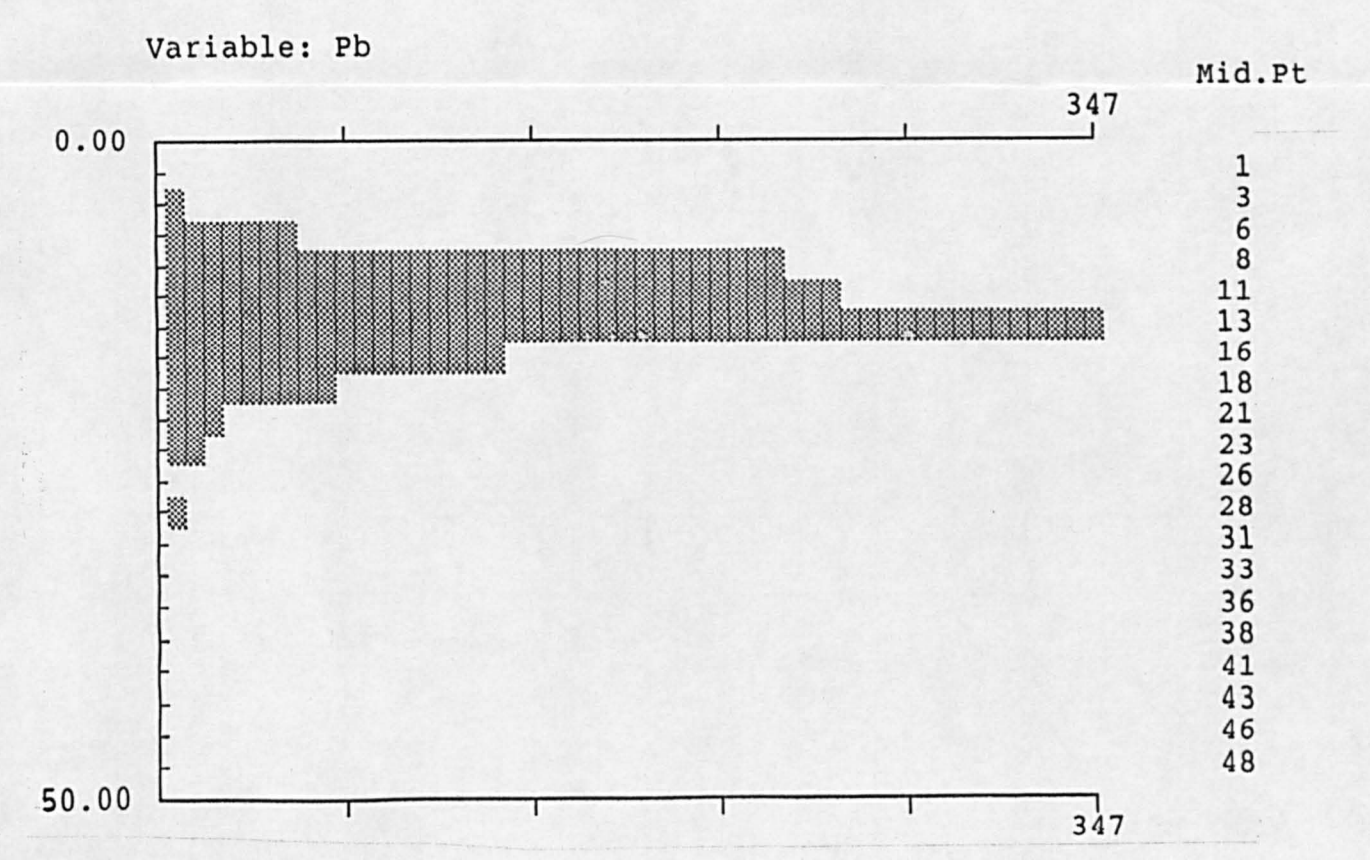
○ 10.000

○ 13.000

○ 17.000

○ 20.000

○ 100.000





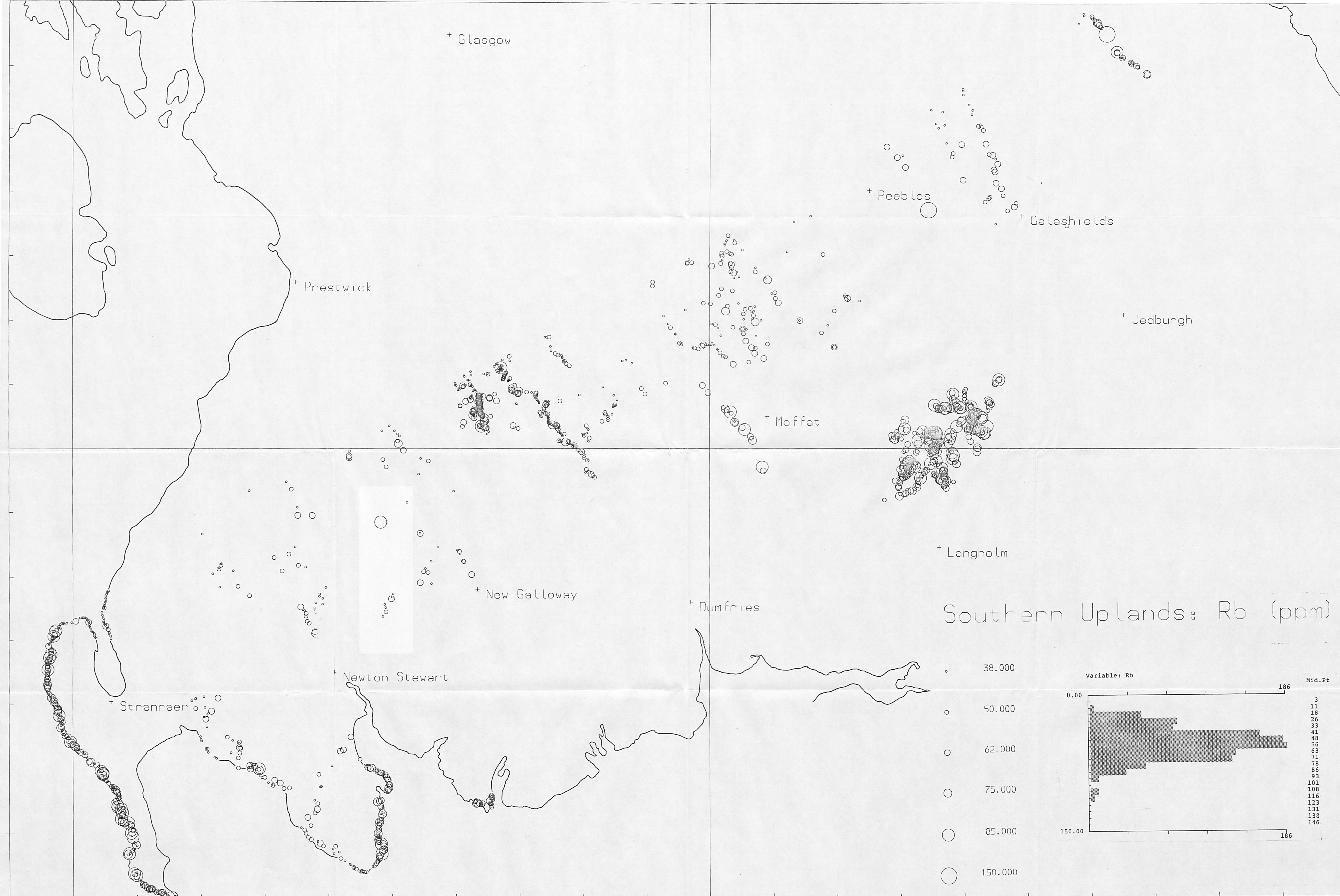
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Rb (ppm)

1:250,000

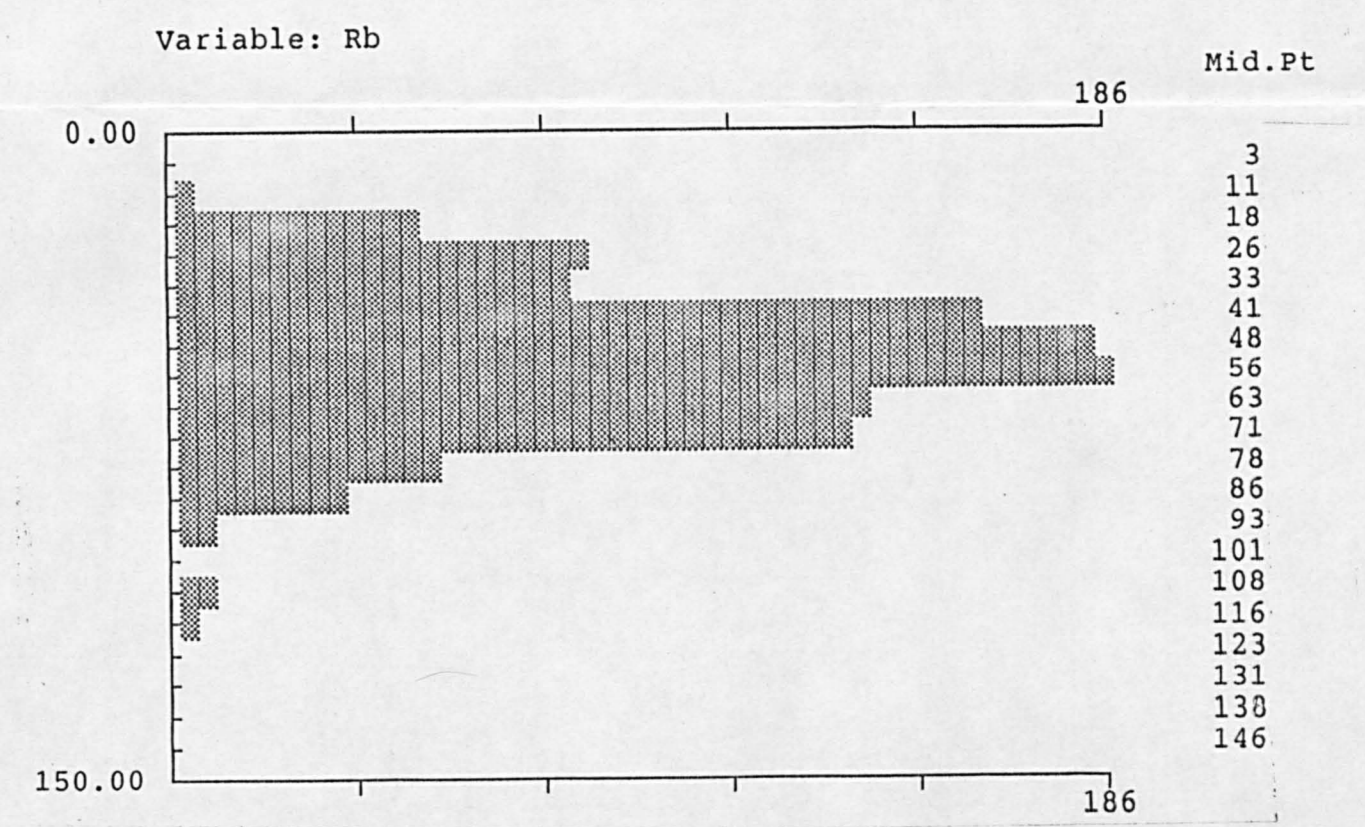
ENCLOSURE : 14

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Southern Uplands: Rb (ppm)

- 38.000
- 50.000
- 62.000
- 75.000
- 85.000
- 150.000

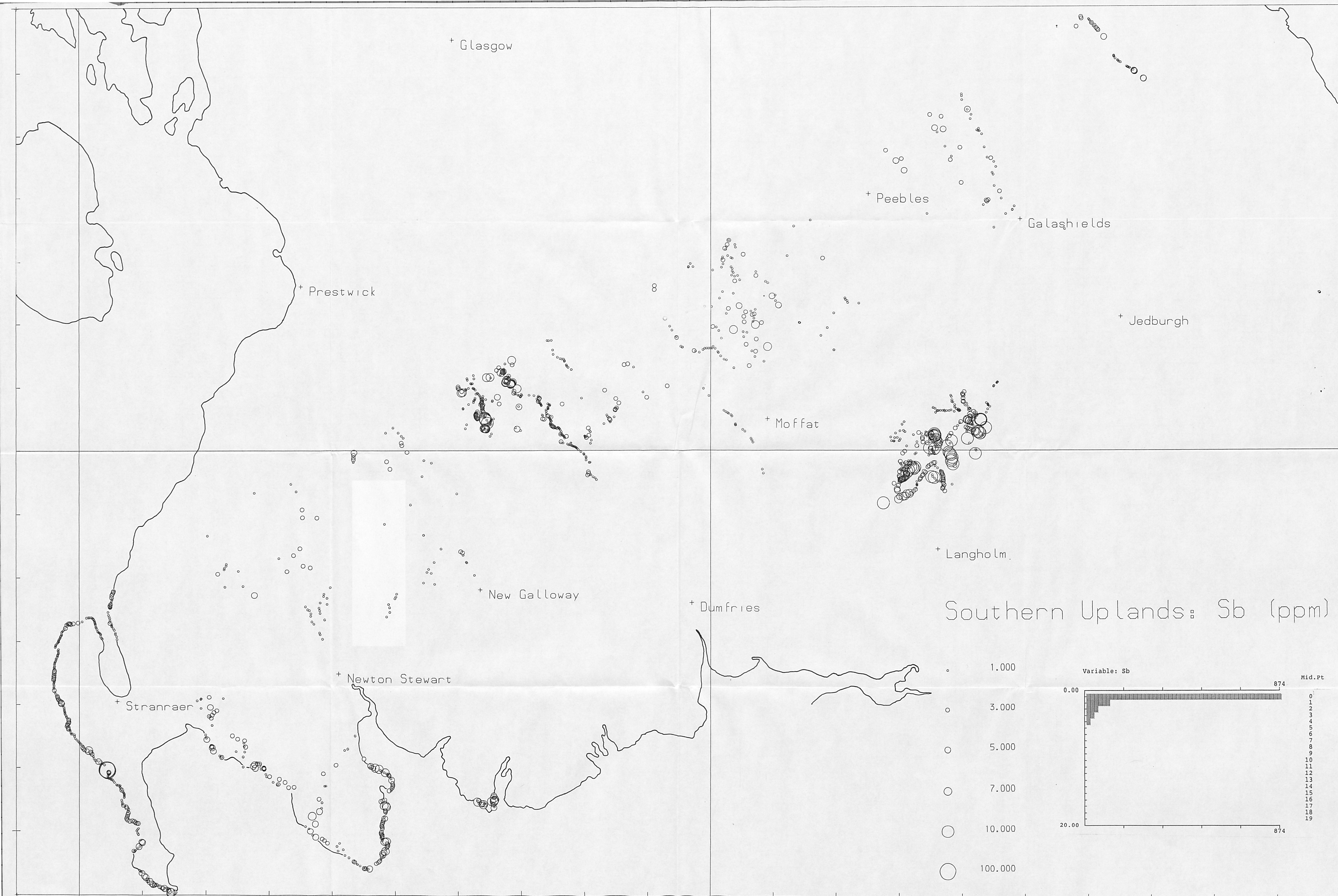


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Sb (ppm) 1:250,000

ENCLOSURE : 15

T6639E



+ Glasgow

+ Peebles

+ Galashiels

+ Prestwick

+ Jedburgh

+ Moffat

+ Langholm

+ New Galloway

+ Dumfries

Southern Uplands: Sb (ppm)

+ Stranraer

+ Newton Stewart

1.000

3.000

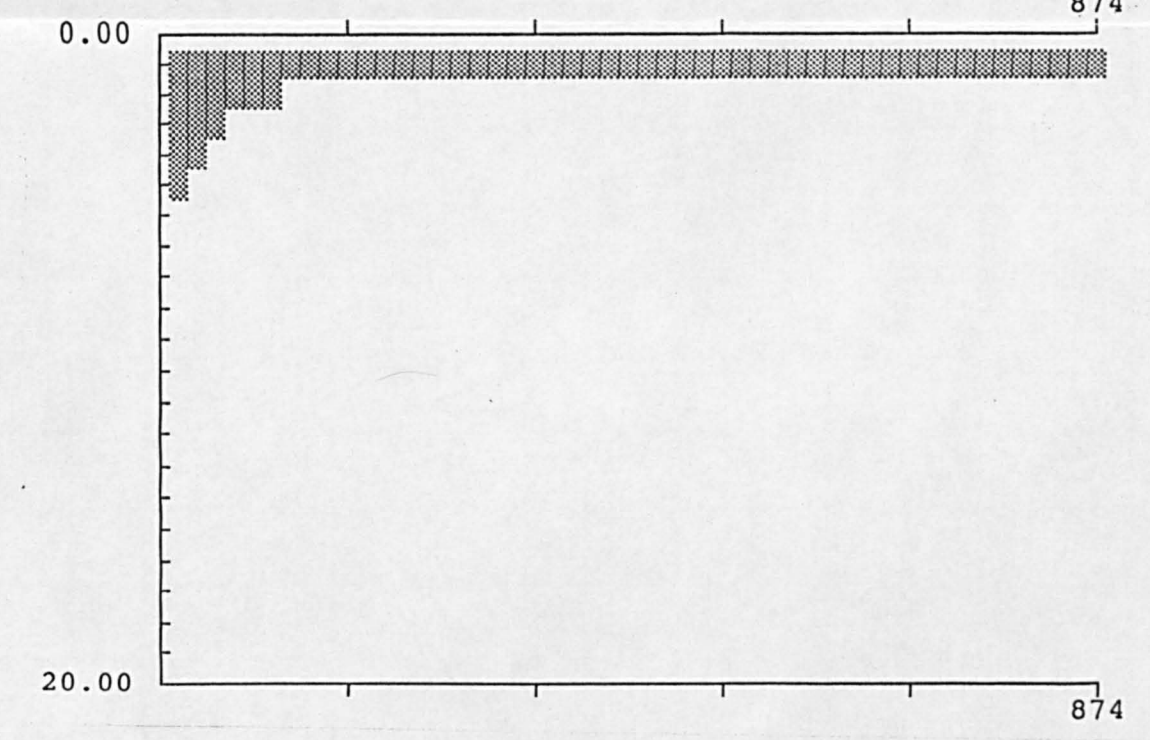
5.000

7.000

10.000

100.000

Variable: Sb



Mid.Pt

874

874

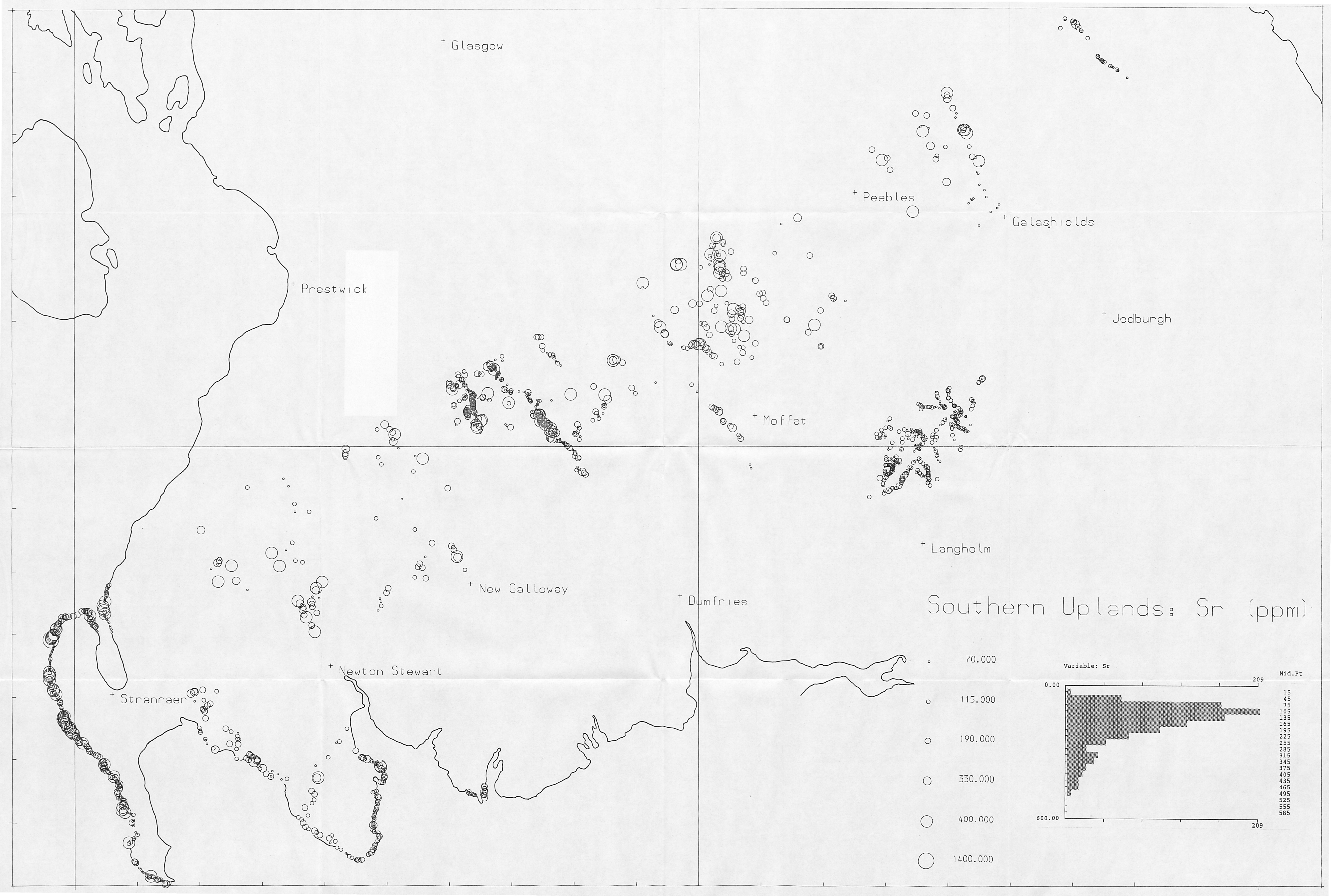
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Sr (ppm)

1:250,000

ENCLOSURE : 16

T6639E



+ Glasgow

+ Prestwick

+ Peebles

+ Galashiels

+ Jedburgh

+ Moffat

+ Langholm

+ New Galloway

+ Dumfries

Southern Uplands: Sr (ppm)

+ Stranraer

+ Newton Stewart

○ 70.000

○ 115.000

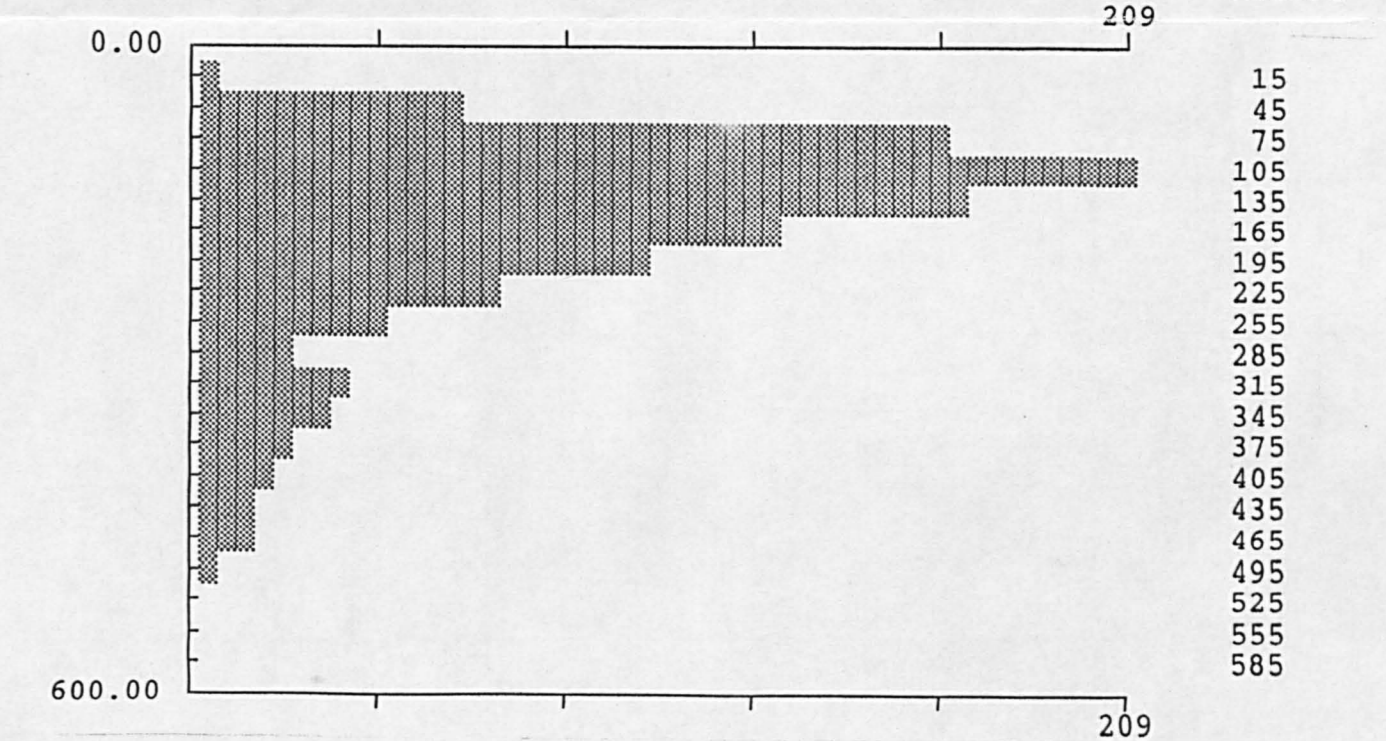
○ 190.000

○ 330.000

○ 400.000

○ 1400.000

Variable: Sr



- 15
- 45
- 75
- 105
- 135
- 165
- 195
- 225
- 255
- 285
- 315
- 345
- 375
- 405
- 435
- 465
- 495
- 525
- 555
- 585

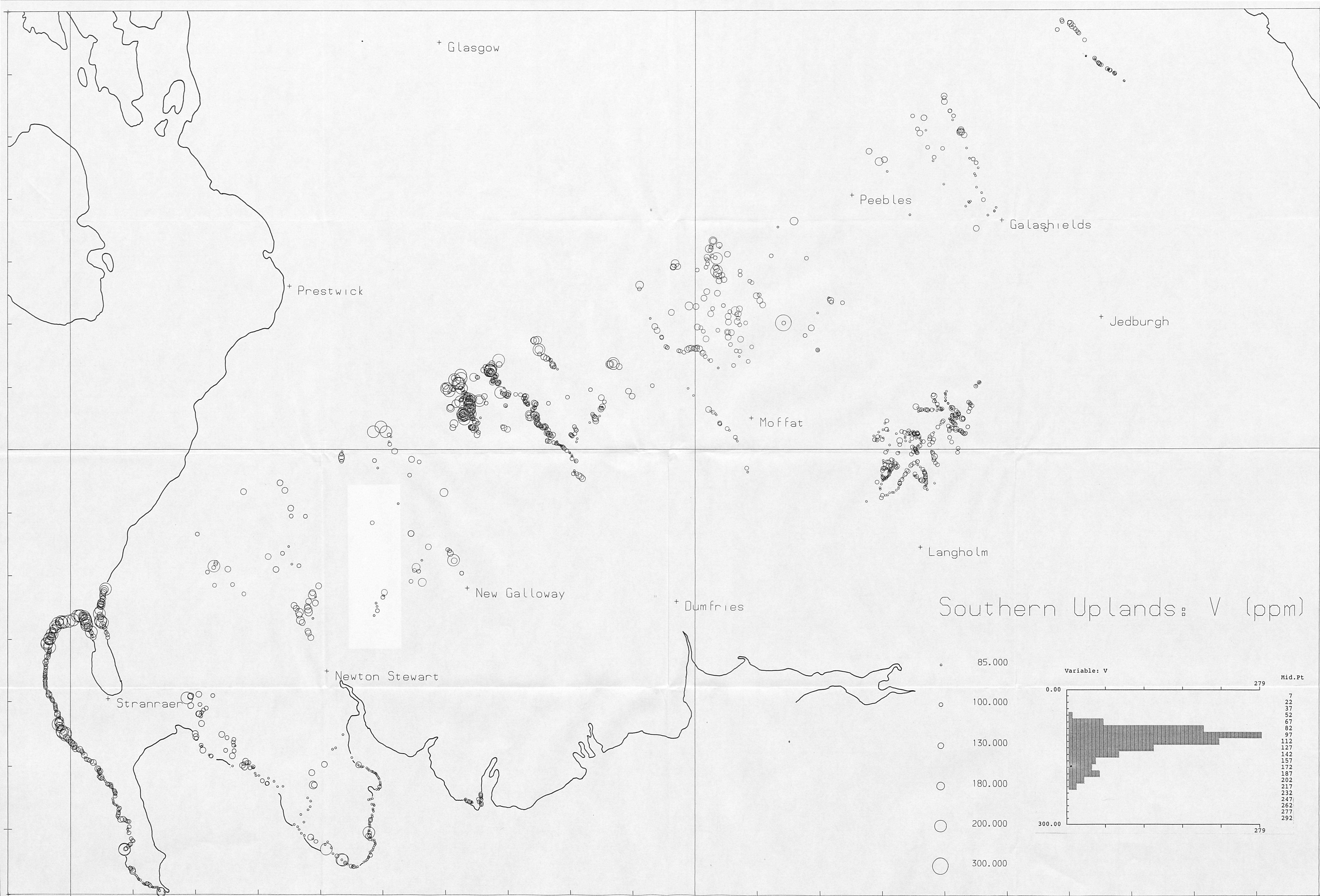
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: V (ppm)

1:250,000

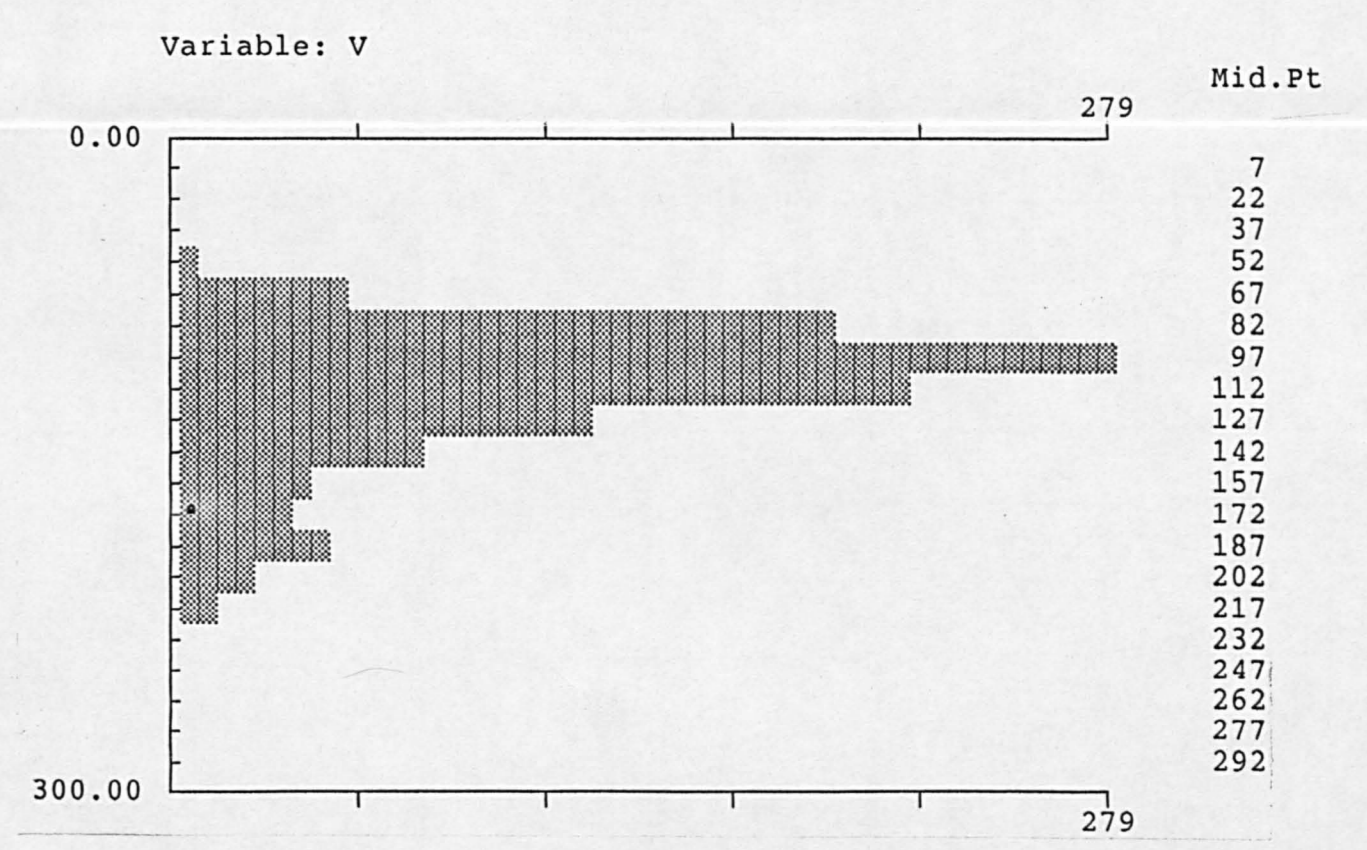
ENCLOSURE : 17

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Southern Uplands: V (ppm)

- 85.000
- 100.000
- 130.000
- 180.000
- 200.000
- 300.000



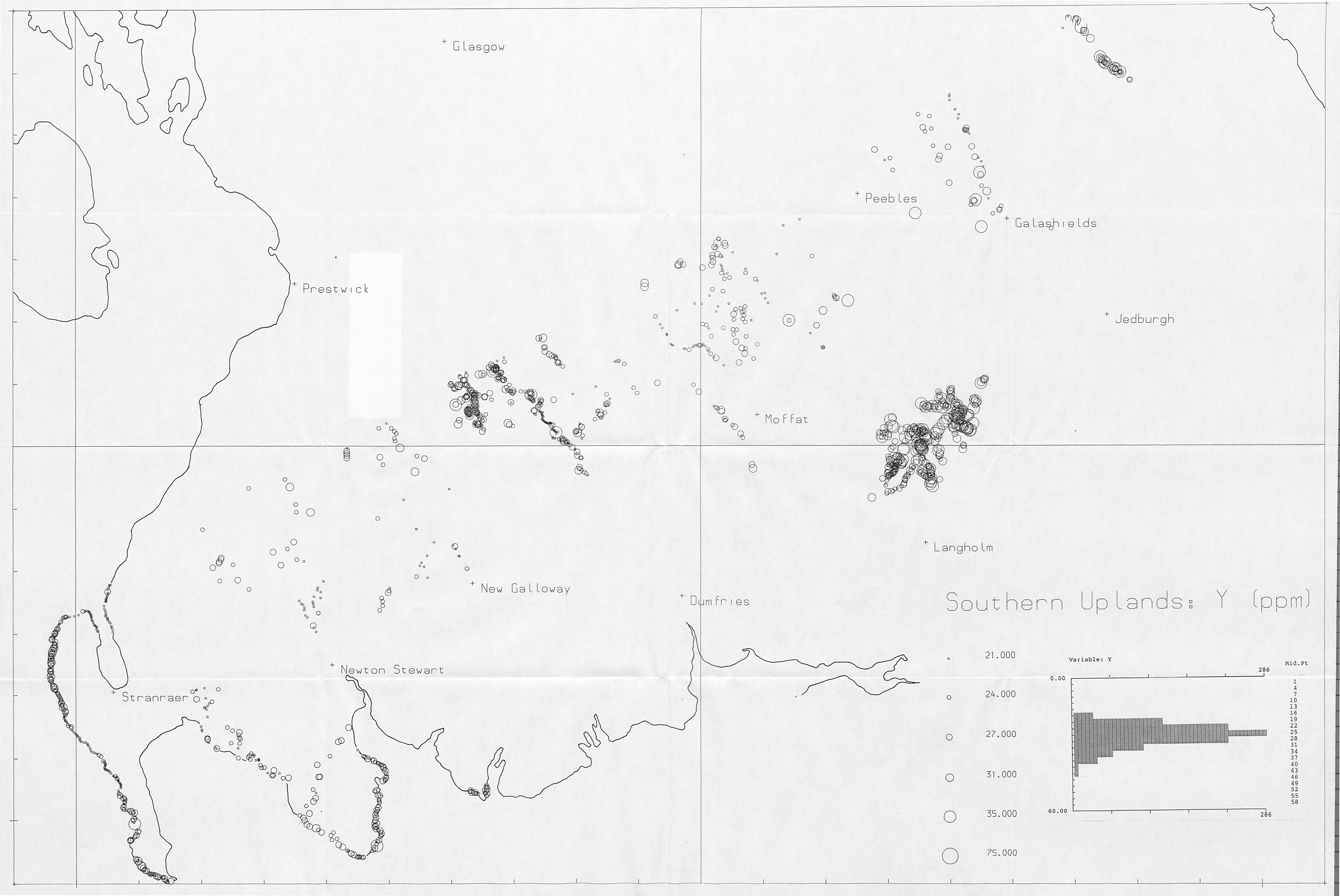
SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Y (ppm)

1:250,000

ENCLOSURE : 18

T6639E



+ Glasgow

+ Prestwick

+ Peebles

+ Galashiels

+ Jedburgh

+ Moffat

+ Langholm

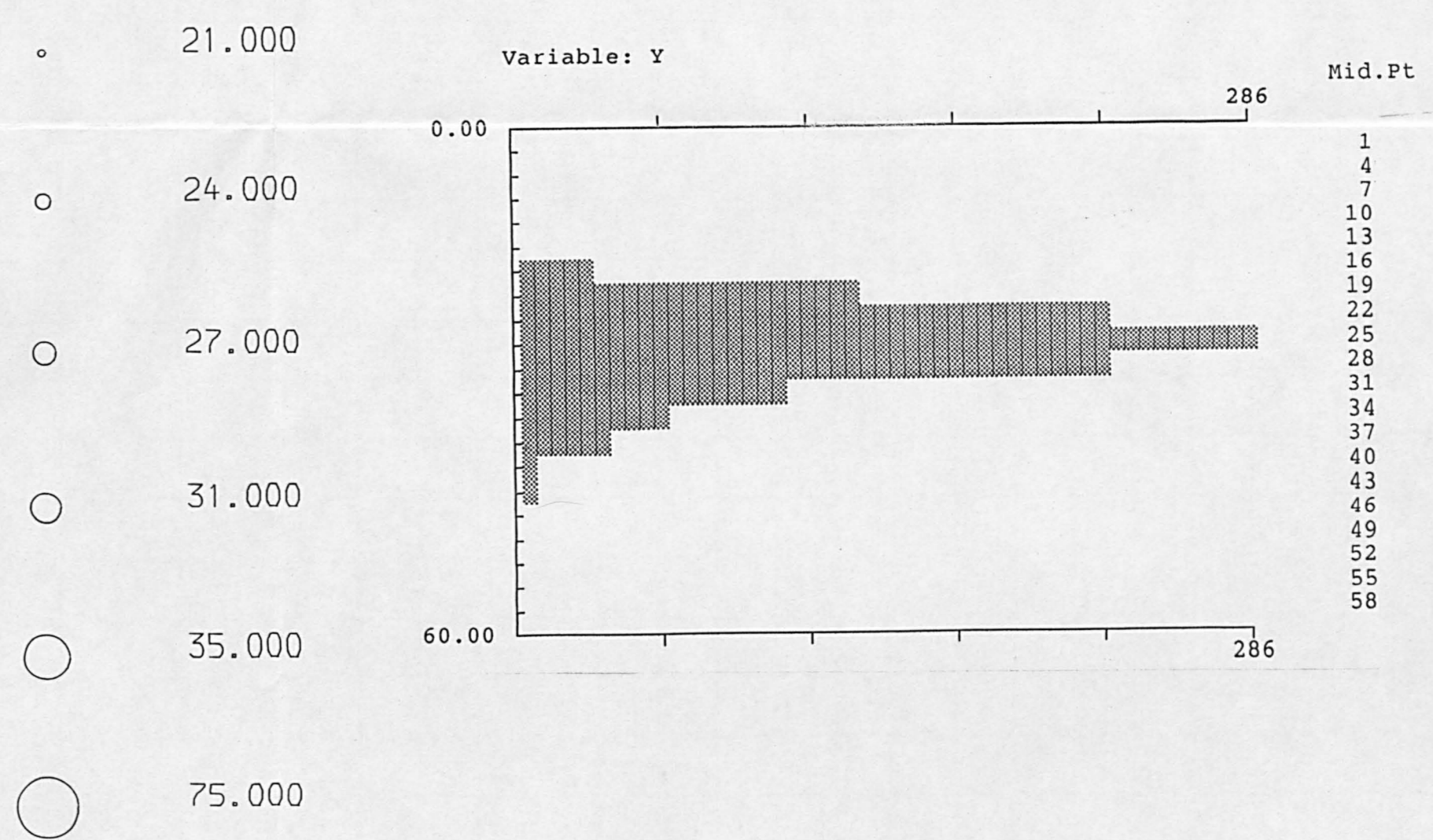
+ New Galloway

+ Dumfries

Southern Uplands: Y (ppm)

+ Stranraer

+ Newton Stewart

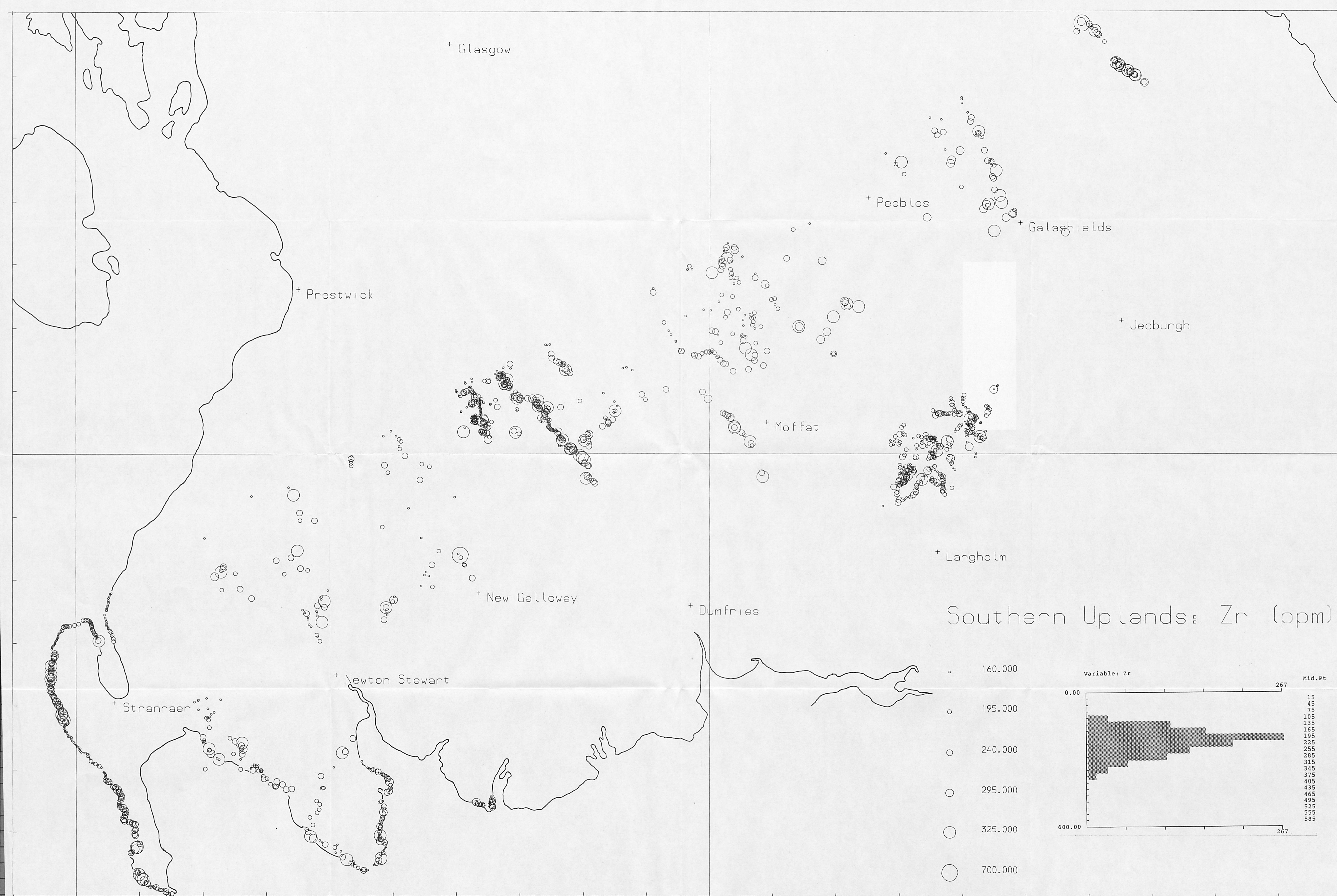


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: Zr (ppm) 1:250,000

ENCLOSURE : 19

T6639 E



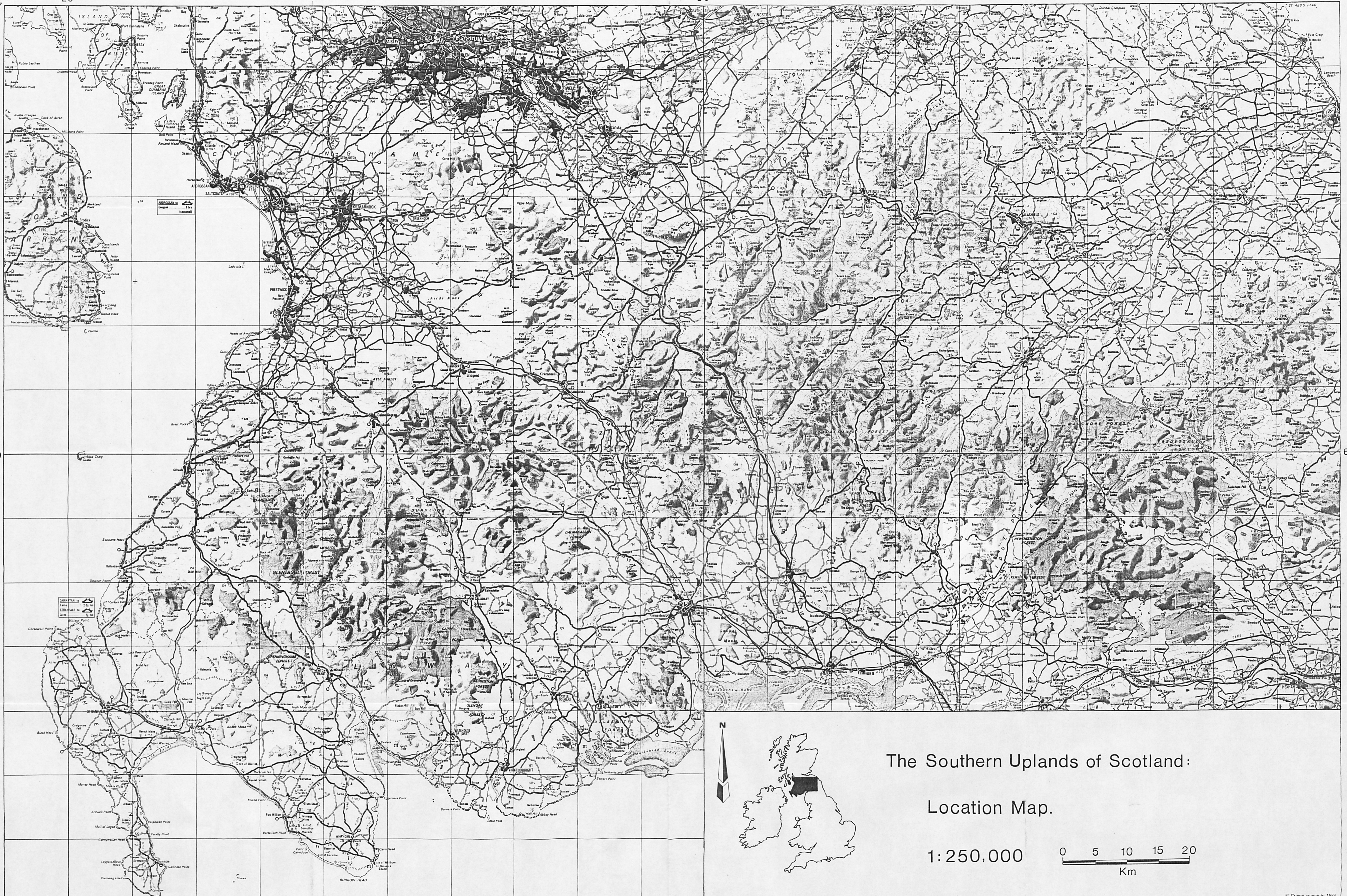


SOUTHERN UPLANDS GEOCHEMICAL ATLAS

ELEMENT: LOCATION MAP 1:250,000

ENCLOSURE : 20

T6639E



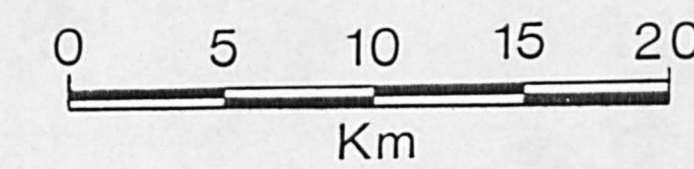
ARDSHEAN Inlet

CAIRNRYAN Inlet

The Southern Uplands of Scotland:

Location Map.

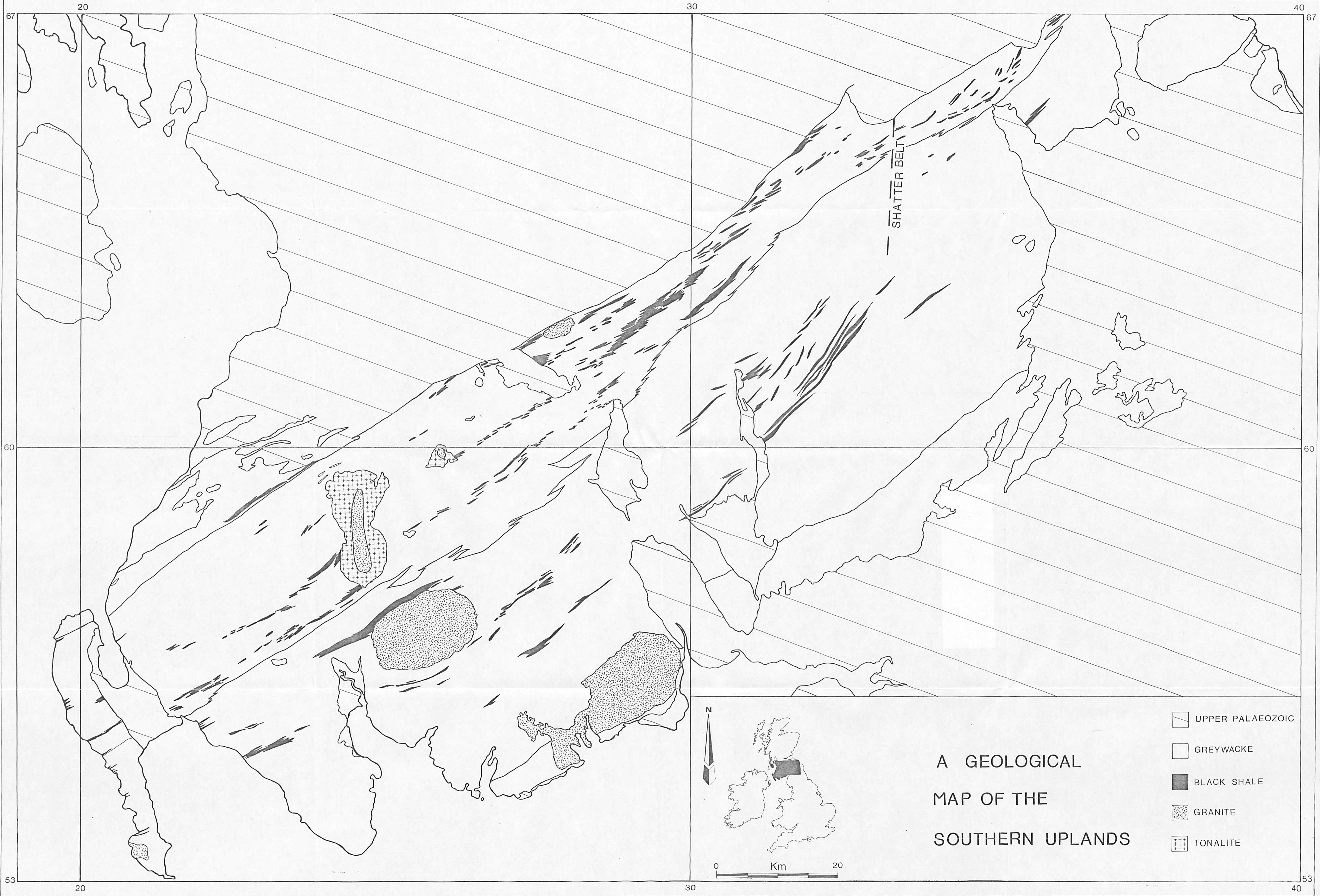
1:250,000




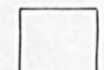

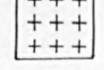
GEOLOGICAL MAP OF THE SOUTHERN UPLANDS

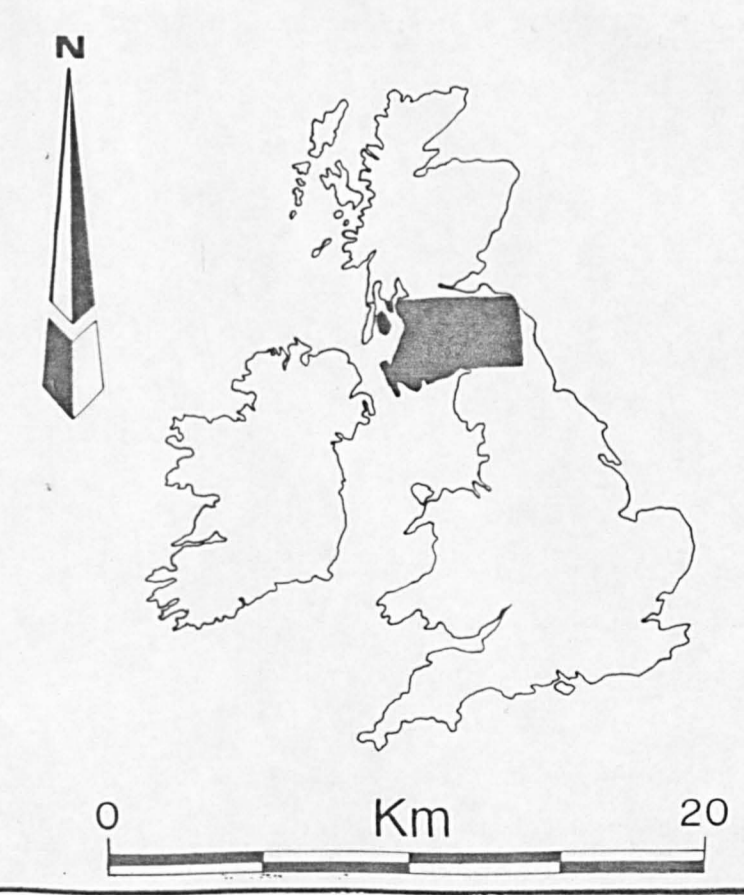
ENCLOSURE : 21


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A GEOLOGICAL
MAP OF THE
SOUTHERN UPLANDS

-  UPPER PALAEOZOIC
-  GREYWACKE
-  BLACK SHALE
-  GRANITE
-  TONALITE

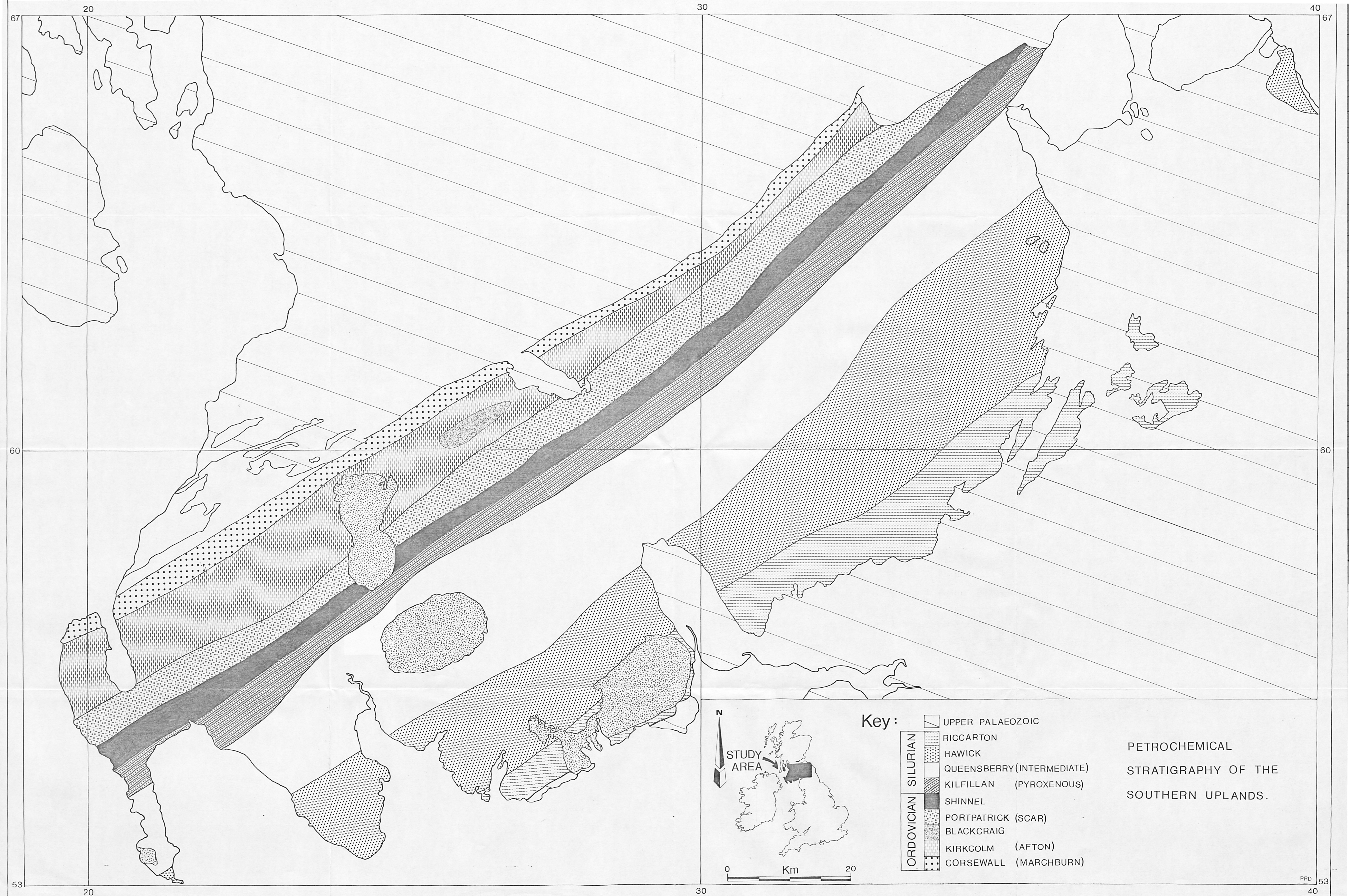




PETROCHEMICAL STRATIGRAPHY
OF THE SOUTHERN UPLANDS

ENCLOSURE : 22

T6639E



Key:

- | | | |
|------------------|--------------------|----------------------------|
| UPPER PALAEOZOIC | [diagonal lines] | UPPER PALAEOZOIC |
| SILURIAN | [horizontal lines] | RICCARTON |
| | [stippled] | HAWICK |
| | [dotted] | QUEENSBERRY (INTERMEDIATE) |
| | [diagonal lines] | KILFILLAN (PYROXENOUS) |
| ORDOVICIAN | [solid grey] | SHINNEL |
| | [stippled] | PORTPATRICK (SCAR) |
| | [diagonal lines] | BLACKCRAIG |
| | [dotted] | KIRKCOLM (AFTON) |
| | [stippled] | CORSEWALL (MARCHBURN) |

PETROCHEMICAL
STRATIGRAPHY OF THE
SOUTHERN UPLANDS.

