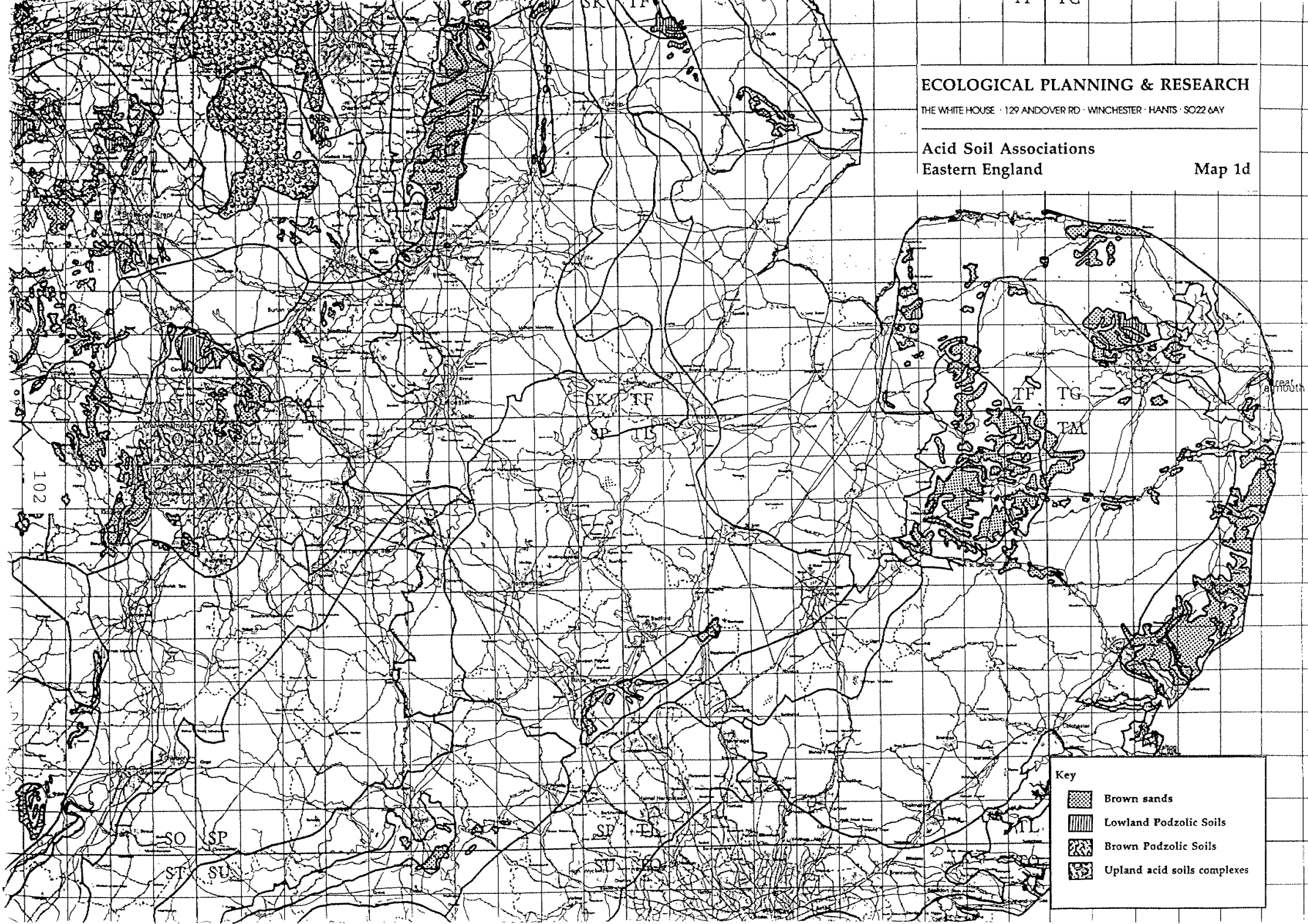


ECOLOGICAL PLANNING & RESEARCH





THE WHITE HOUSE · 129 ANDOVER RD · WINCHESTER · HANTS · SO22 6AY

Acid Soil Associations
Eastern England

Map 1d







Key

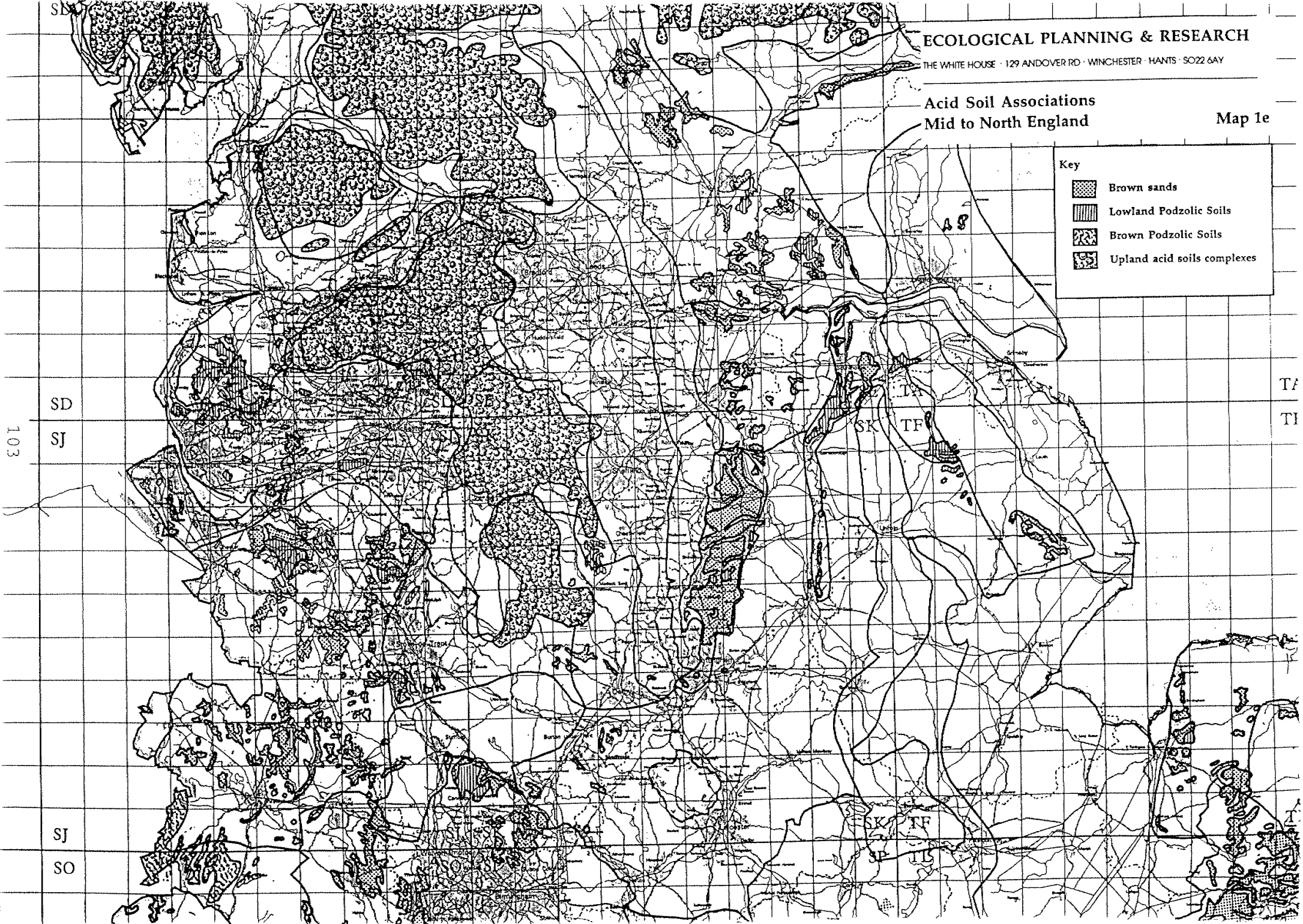
-  Brown sands
-  Lowland Podzolic Soils
-  Brown Podzolic Soils
-  Upland acid soils complexes

Acid Soil Associations
Mid to North England

Map 1e

Key

-  Brown sands
-  Lowland Podzolic Soils
-  Brown Podzolic Soils
-  Upland acid soils complexes



SD

SJ

SJ

SO

TA

TI

103





ECOLOGICAL PLANNING & RESEARCH

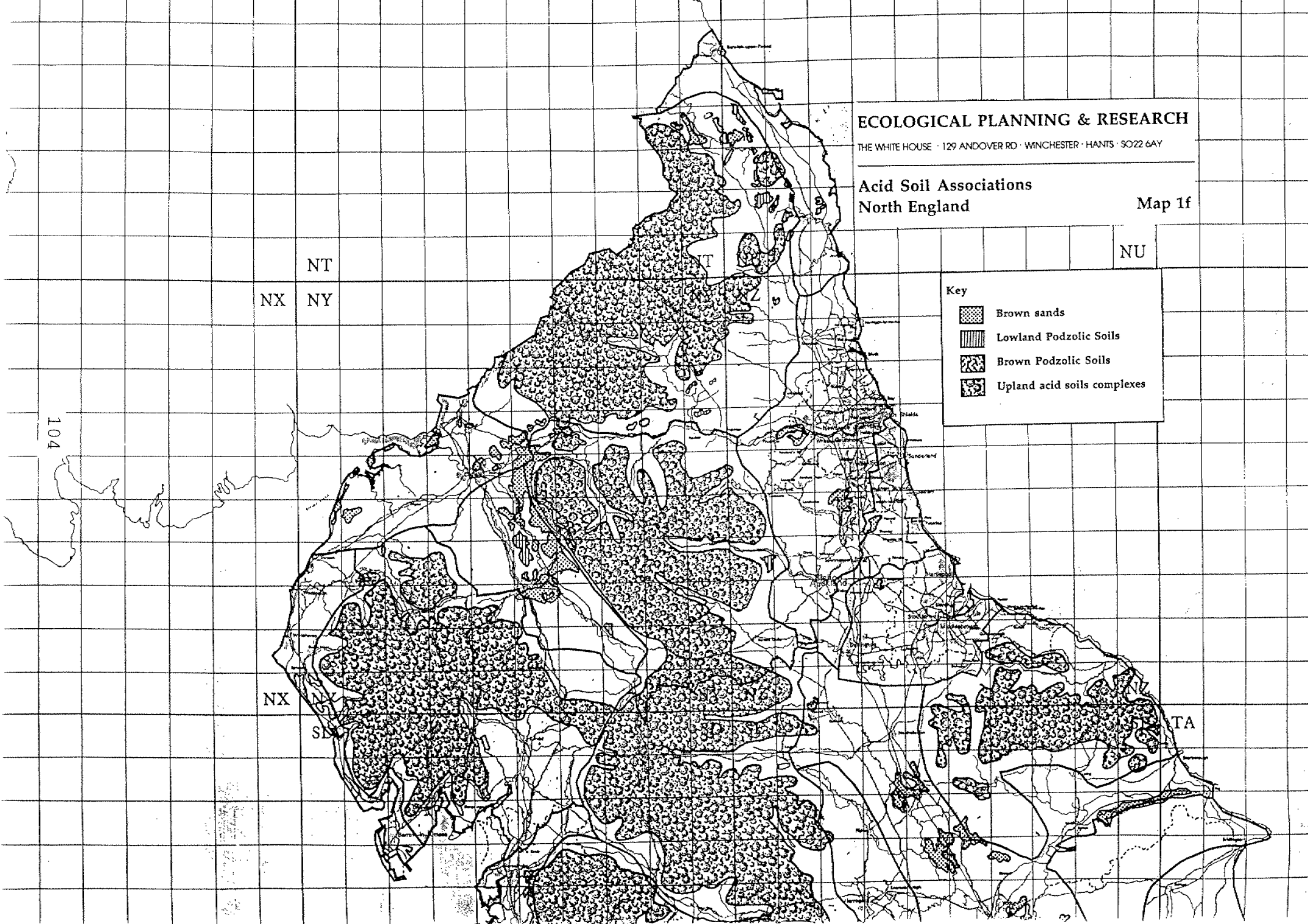
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**Acid Soil Associations
North England**

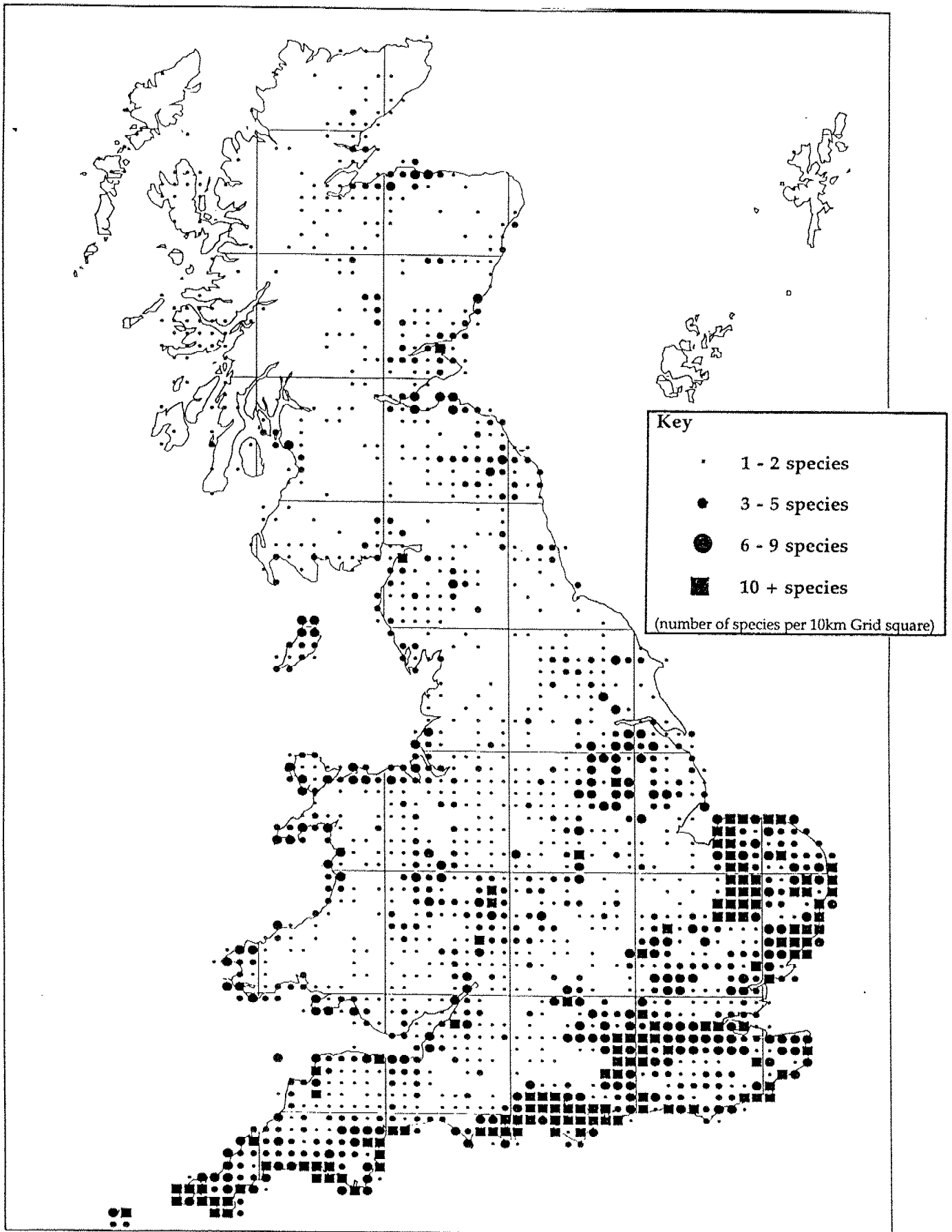
Map 1f

Key

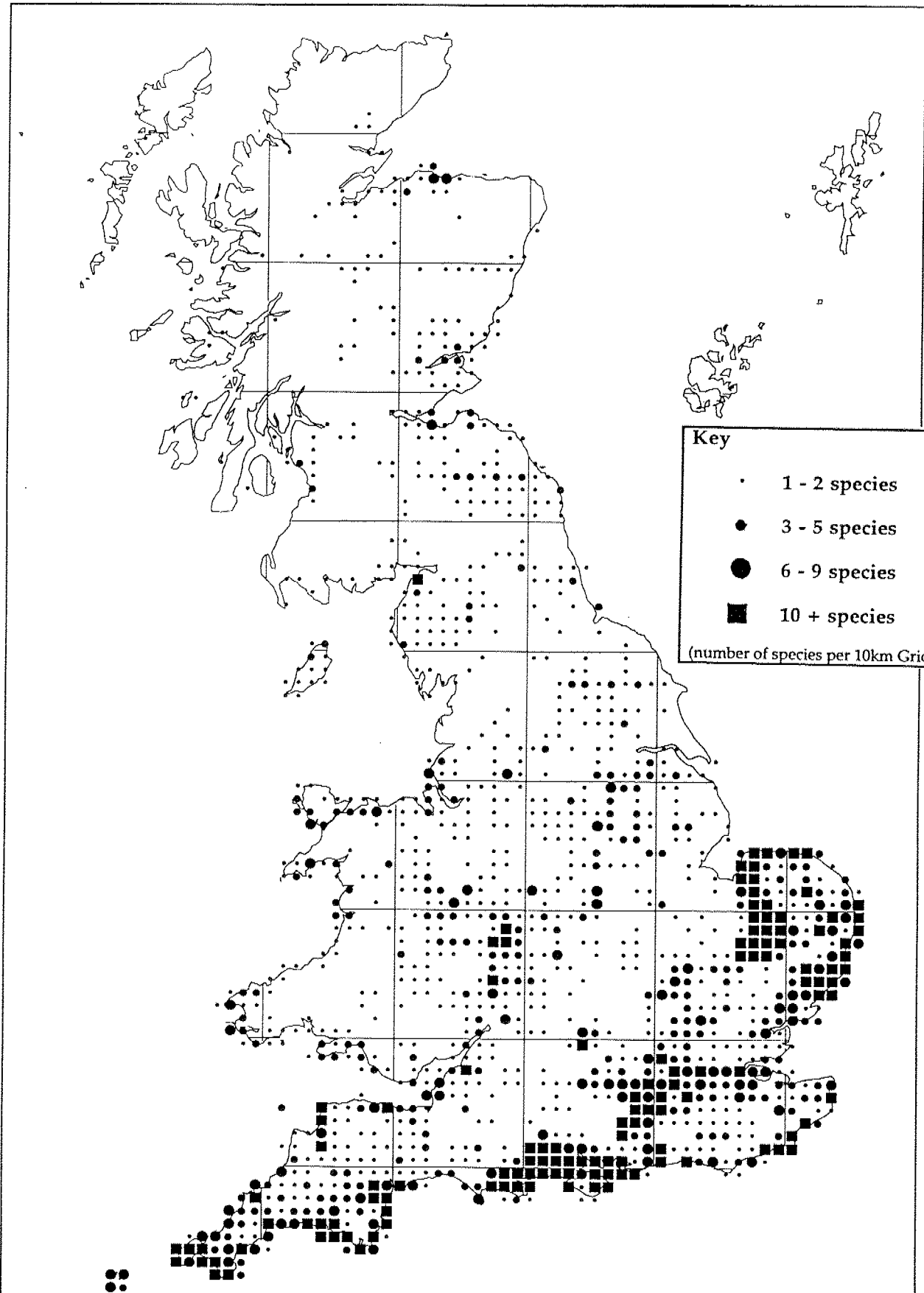
-  Brown sands
-  Lowland Podzolic Soils
-  Brown Podzolic Soils
-  Upland acid soils complexes



**Lowland acid grassland plant species from
Table 1: all records for 33 species. Map 2**



Lowland acid grassland plant species from Table 1: all records for 25 updated species. Map 3



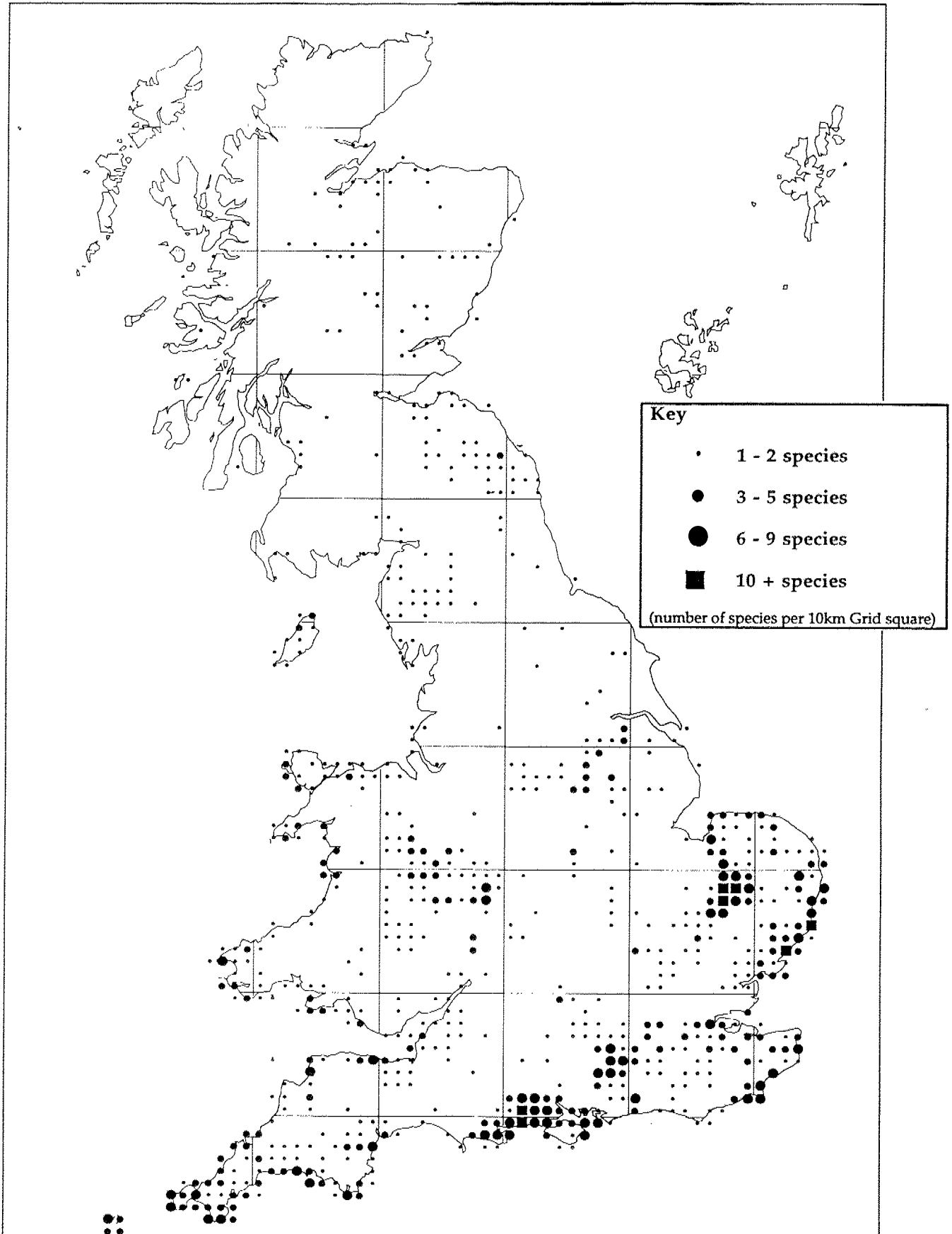
Key

- 1 - 2 species
- 3 - 5 species
- 6 - 9 species
- 10 + species

(number of species per 10km Grid square)

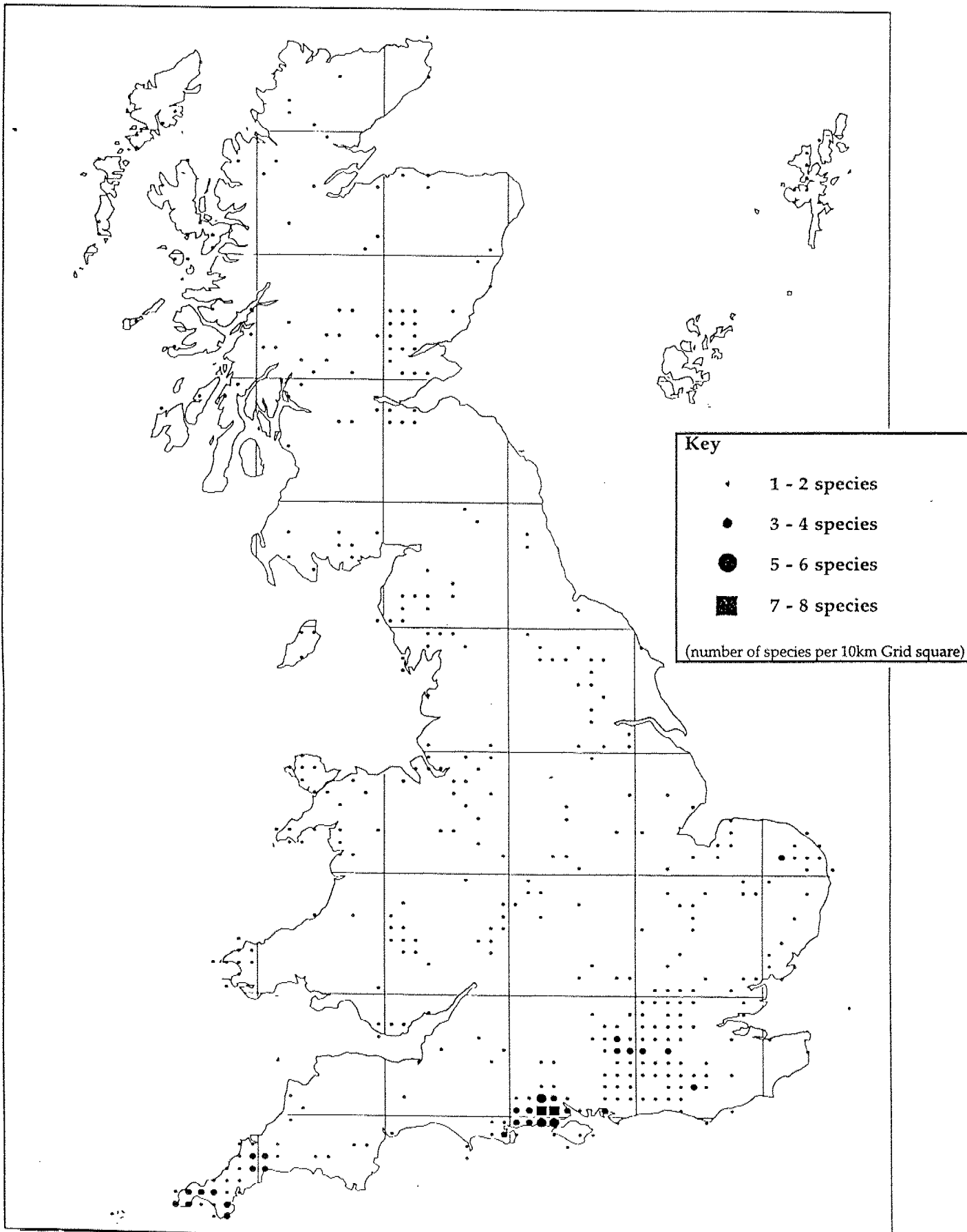
**Lowland acid grassland plant species from
Table 1: post-1970 records for 25 updated
species.**

Map 4

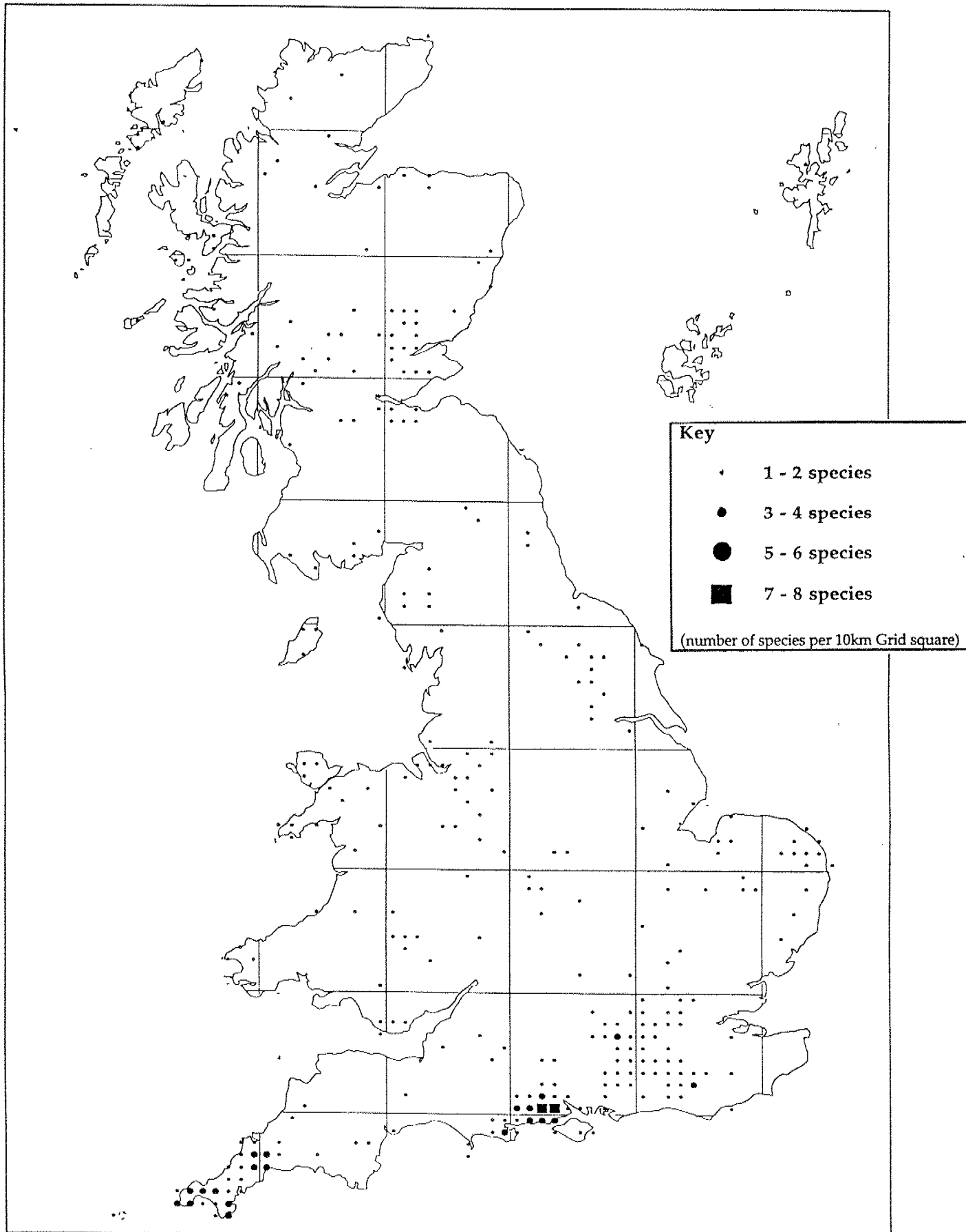


**Lowland acid grassland
Ephemeral pond species
- all records**

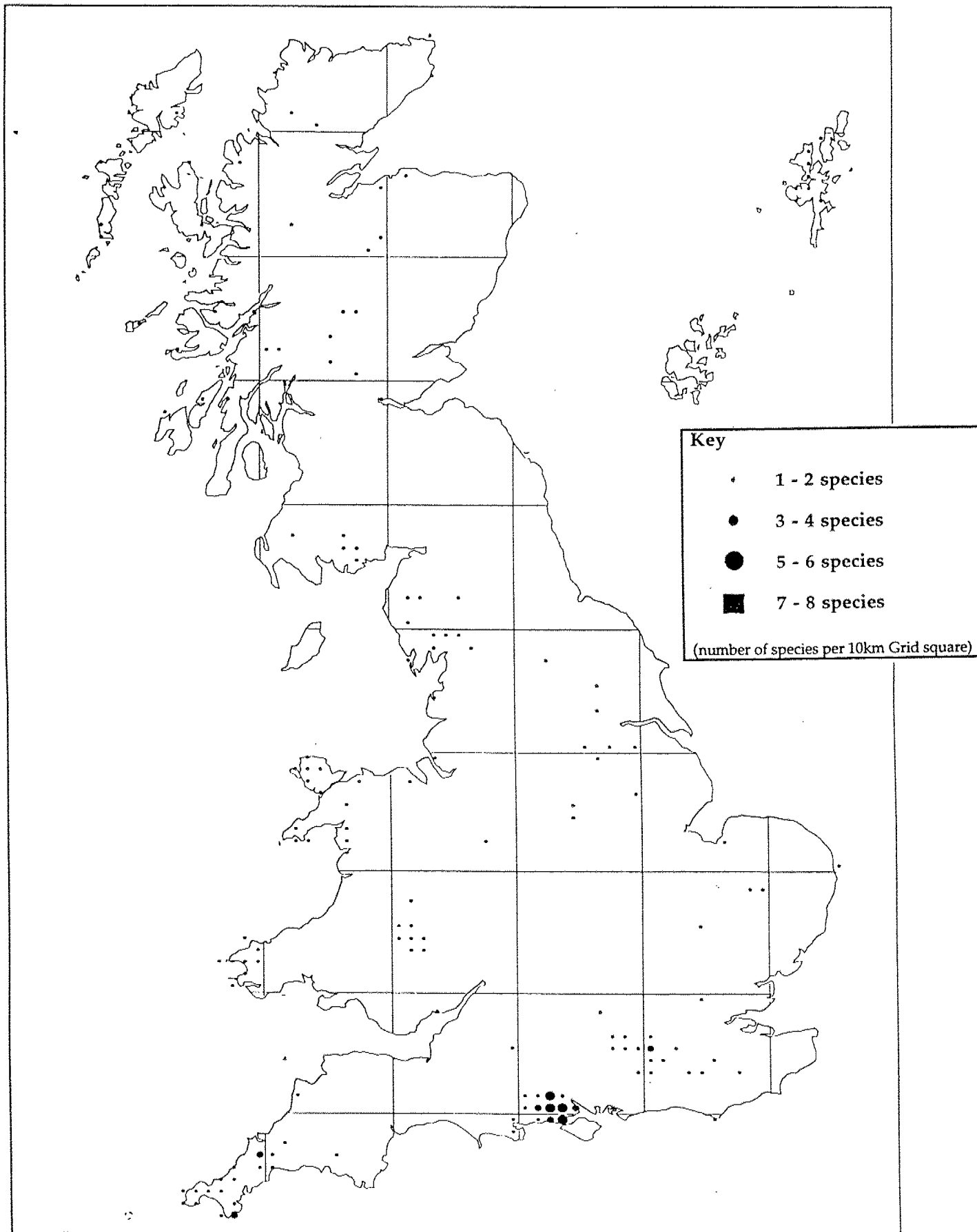
Map 5



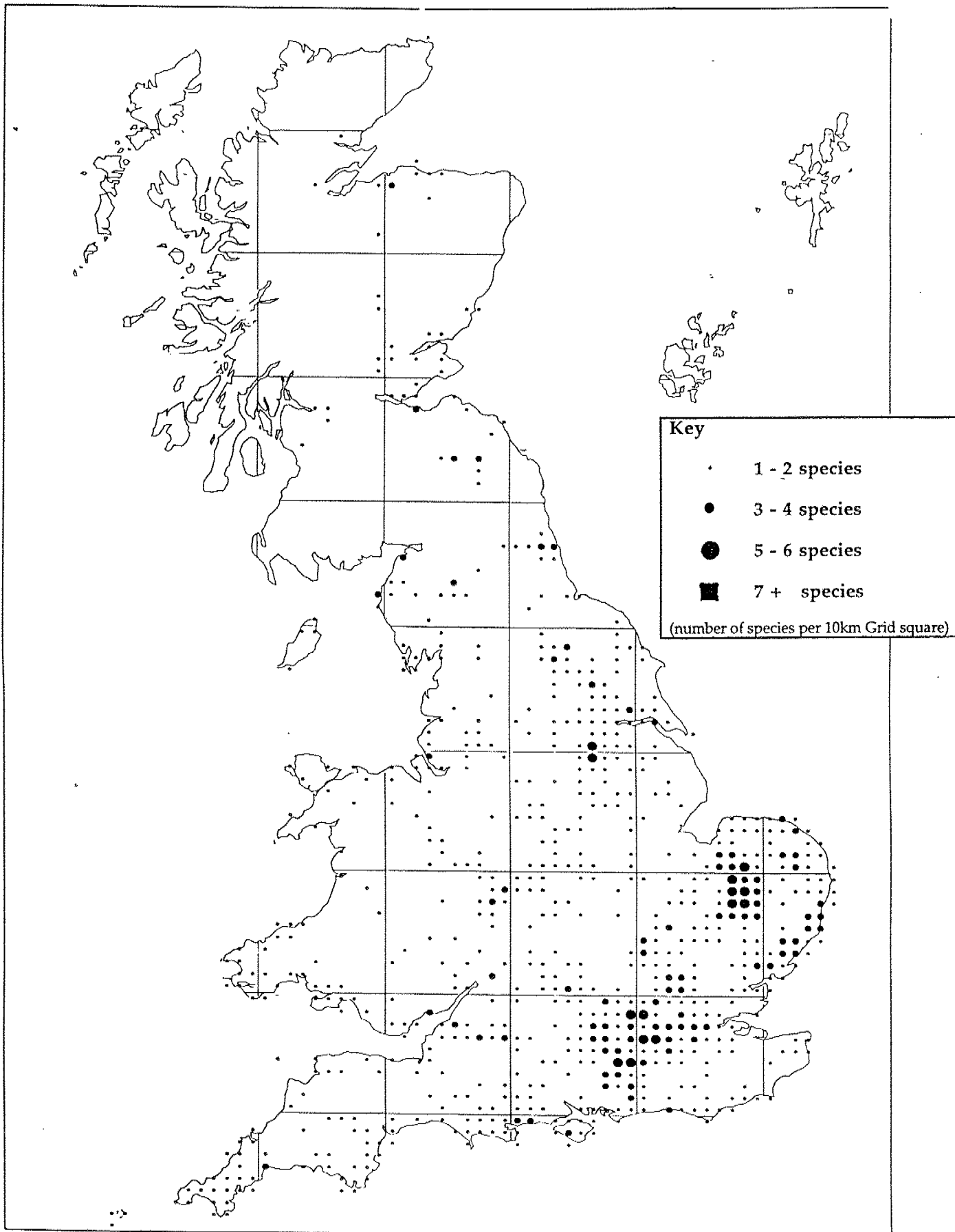
Lowland acid grassland
Ephemeral pond species - pre 1970 Map 6



**Lowland acid grassland
Ephemeral pond species - post 1970 Map 7**



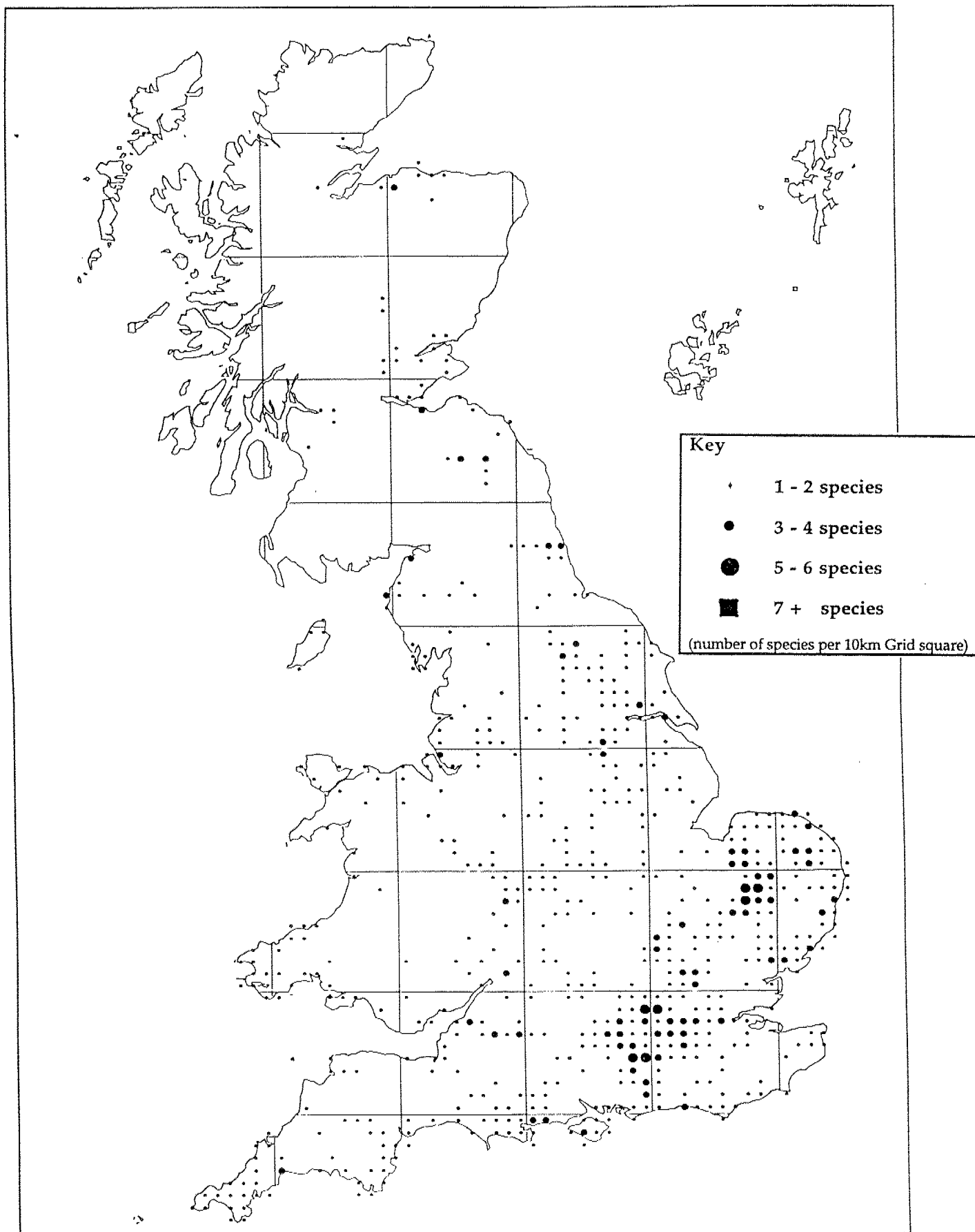
**Lowland acid grassland
Disturbed sandy soil species: all records. Map 8**



Lowland acid grassland

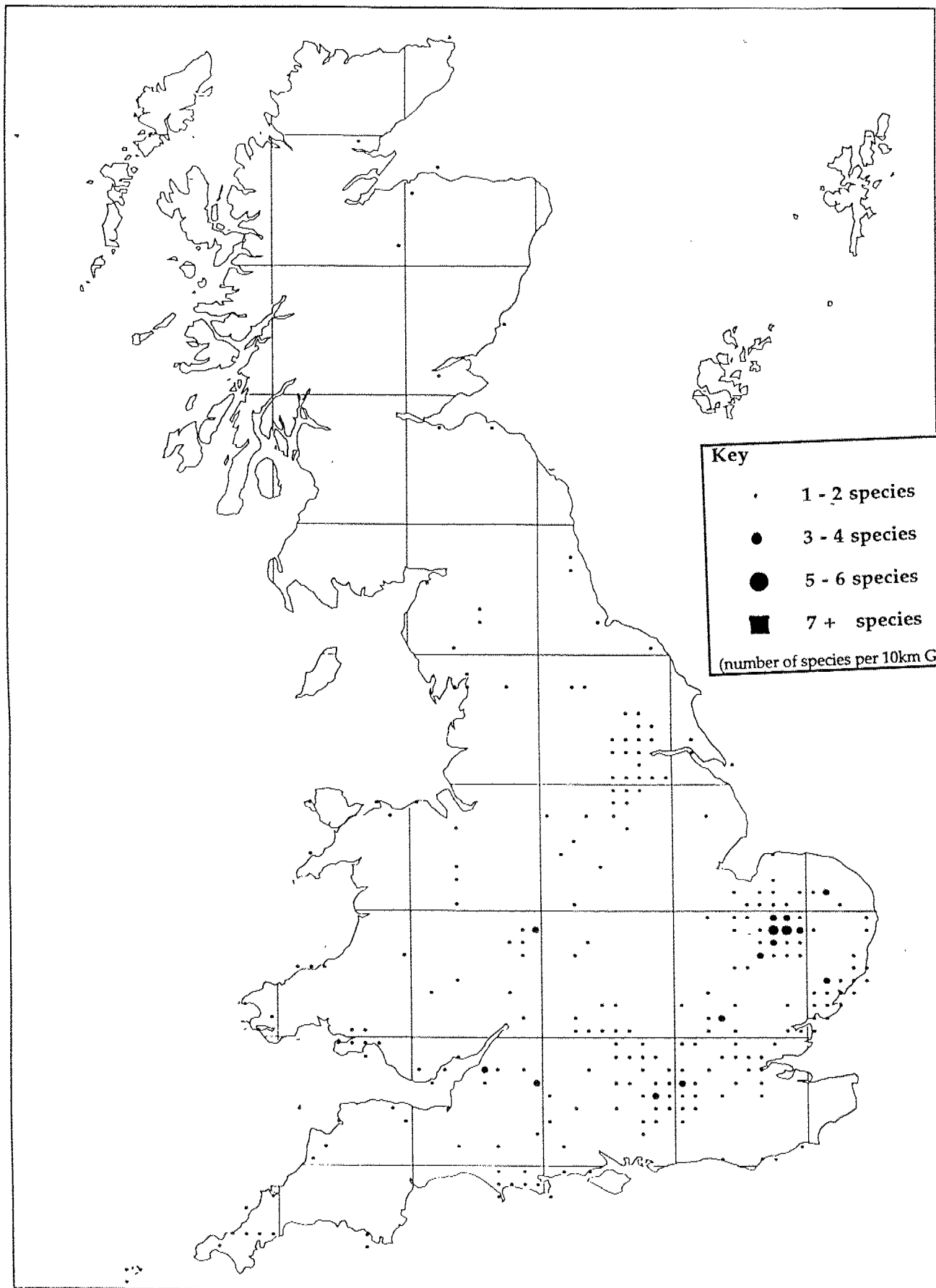
Map 9

Disturbed sandy soil species: pre-1970 records



**Lowland acid grassland
Disturbed sandy soil species: post-1970
records.**

Map 10



Key

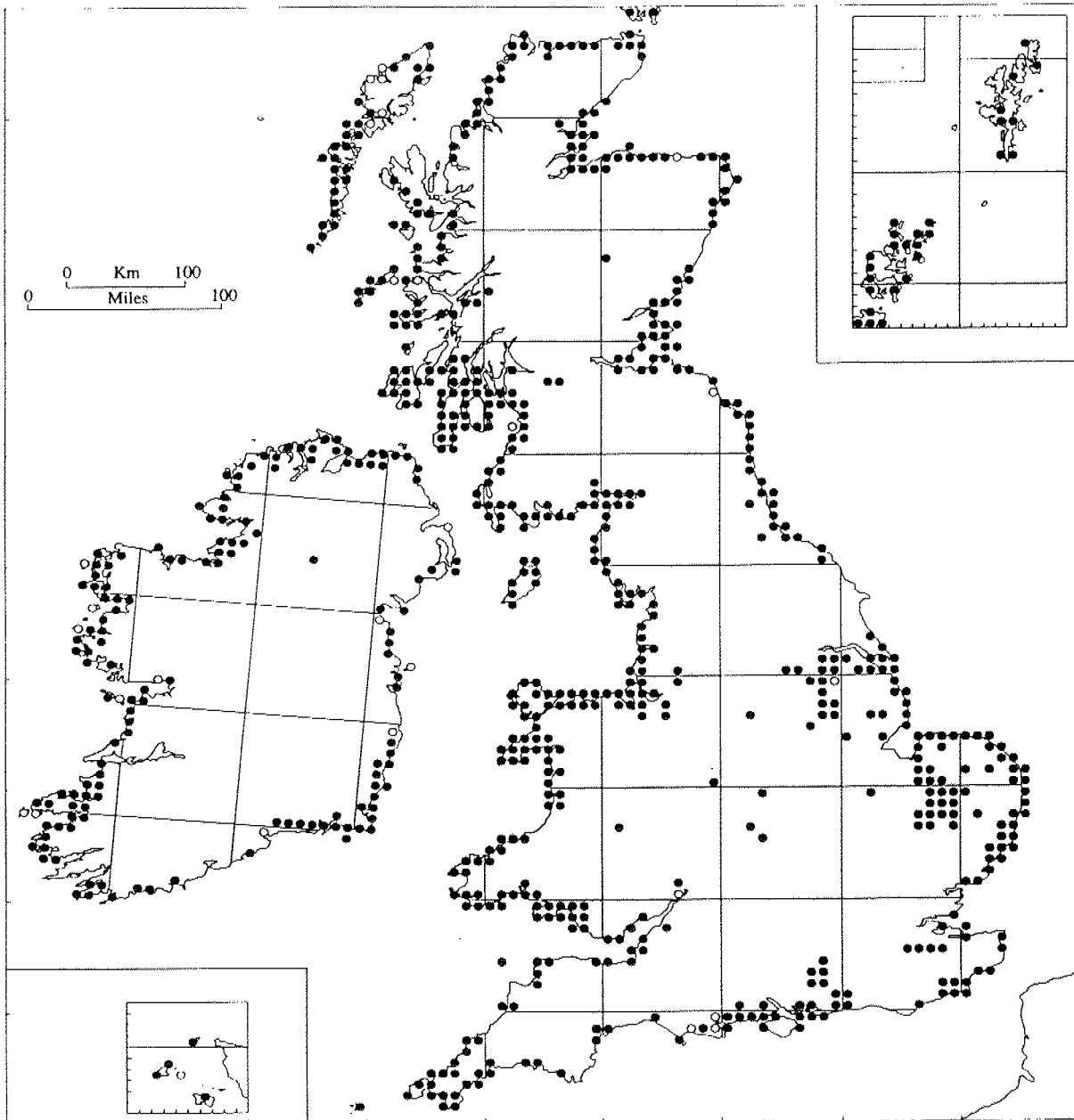
- 1 - 2 species
- 3 - 4 species
- 5 - 6 species
- 7+ species

(number of species per 10km Grid square)

Carex arenaria

A species of inland sand dunes

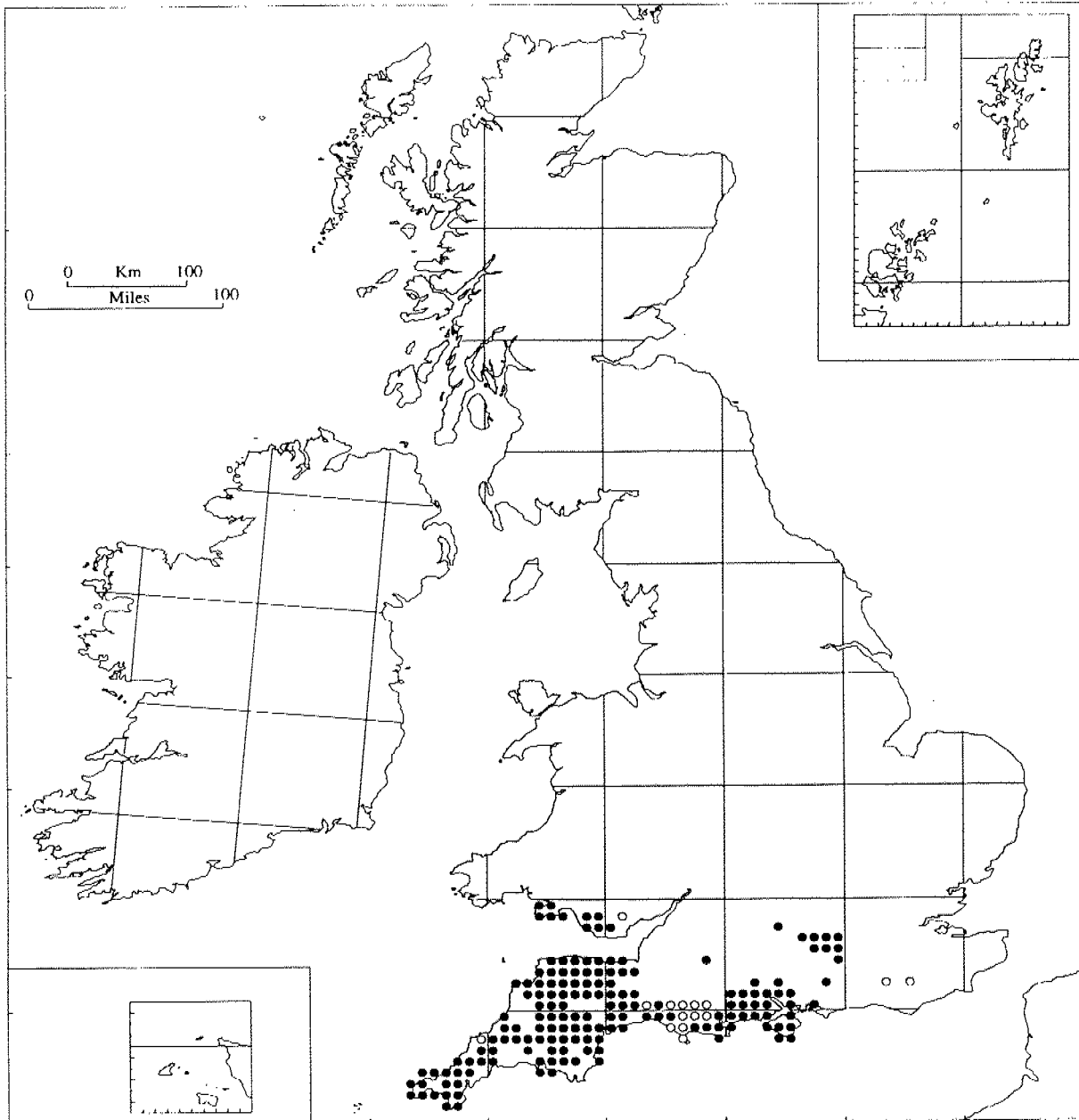
Map 11



- 1950 onwards (GB - 587, Ir - 137, Ch.Is. - 4)
- before 1950 (GB - 15, Ir - 12, Ch.Is. - 1)

Agrostis curtisii

Indicates the potential range of U3 Map 12

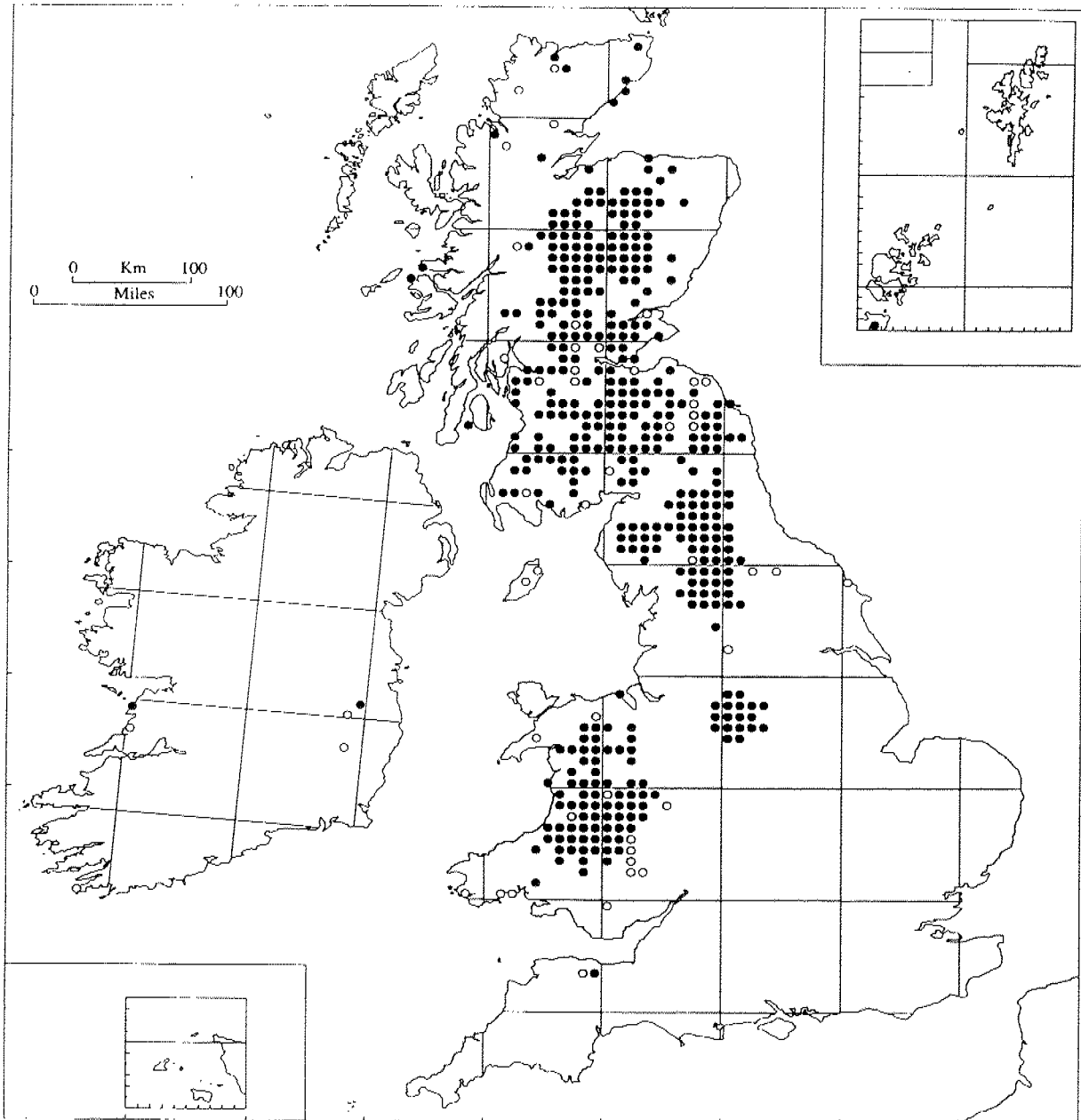


- 1950 onwards (GB - 158, Ir - 0, Ch.Is. - 0)
- before 1950 (GB - 15, Ir - 0, Ch.Is. - 0)

Viola lutea

A characteristic upland species

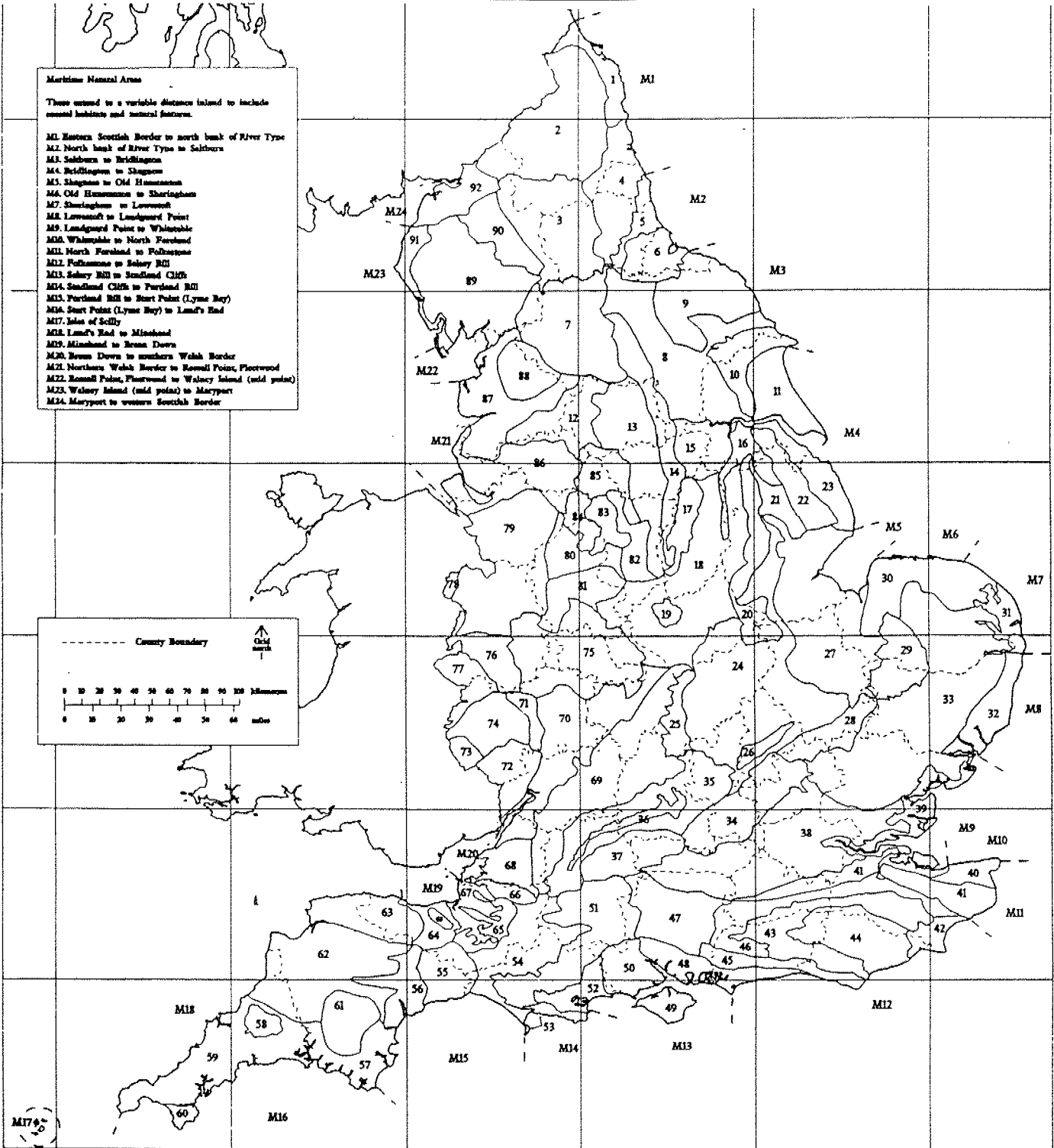
Map 13



- 1950 onwards (GB - 400, Ir - 2, Ch.Is. - 0)
- before 1950 (GB - 45, Ir - 4, Ch.Is. - 0)



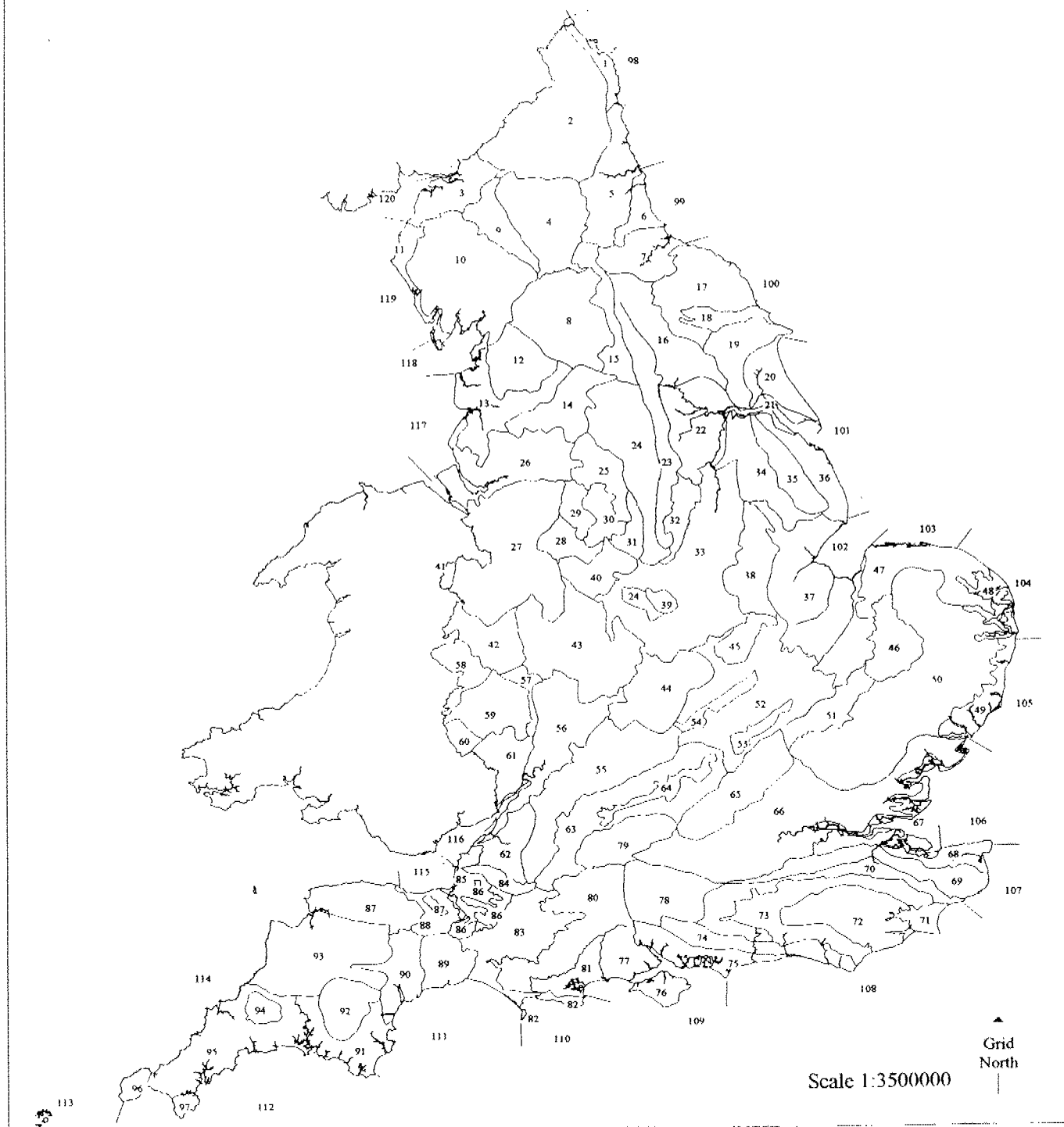
Old Natural Area boundaries as used for Maps 1a-f.
Map 14



Maritime Natural Areas
These extend to a variable distance inland to include coastal habitats and natural features.

- M1. Eastern Scottish Border to north bank of River Tyne
- M2. North bank of River Tyne to Saltburn
- M3. Saltburn to Bridlington
- M4. Bridlington to Skagness
- M5. Skagness to Old Hamstead
- M6. Old Hamstead to Scarborough
- M7. Scarborough to Lowesoft
- M8. Lowesoft to Landguard Point
- M9. Landguard Point to Whiteable
- M10. Whiteable to North Foreland
- M11. North Foreland to Folkestone
- M12. Folkestone to Solway Hill
- M13. Solway Hill to Studland Cliff
- M14. Studland Cliff to Portland Bill
- M15. Portland Bill to Start Point (Lyme Bay)
- M16. Start Point (Lyme Bay) to Land's End
- M17. Isles of Scilly
- M18. Land's End to Minished
- M19. Minished to Breston Downs
- M20. Breston Downs to southern Welsh Border
- M21. Northern Welsh Border to Rossett Point, Fleetwood
- M22. Rossett Point, Fleetwood to Walney Island (mid point)
- M23. Walney Island (mid point) to Maryport
- M24. Maryport to western Scottish Border

- | | | | | |
|----------------------------------|----------------------------------|-----------------------------------|---------------------------------------|----------------------------------|
| 1. Northumberland Coastal Plain | 19. Charnwood Forest | 38. London Basin | 56. Devon Redland | 74. Hereford Plain |
| 2. Border Uplands | 20. Lincolnshire Limestone | 39. Thames Marshes | 57. South Devon | 75. Midlands Flats |
| 3. North Pennines | 21. Lincolnshire Clay Vales | 40. North Kent Plain | 58. Bodmin Moor | 76. Shropshire Hills |
| 4. Northumbrian Coal Measures | 22. Lincolnshire Wolds | 41. North Downs | 59. Cornish Kilns and Granite | 77. Central Marches |
| 5. Durham Magnesian Limestone | 23. Lincolnshire Marsh and Coast | 42. Romney Marsh | 60. The Lizard | 78. Owenry Uplands |
| 6. Lower Tees | 24. Middle England | 43. Low Weald | 61. Dartmoor | 79. Moses and Meres |
| 7. Yorkshire Dales | 25. Northamptonshire Uplands | 44. High Weald | 62. Culm Measures | 80. Staffordshire Uplands |
| 8. The Vales of Yorkshire | 26. Bedfordshire Greensand | 45. South Downs | 63. Exmoor and the Quantocks | 81. Upper Trent Valley |
| 9. North York Moors | 27. Fenland | 46. Greensand | 64. Vale of Tomnton | 82. The Derwent Valley |
| 10. Yorkshire Wolds | 28. East Anglian Southern Chalk | 47. Hampshire Chalk | 65. Mid Somerset Hills | 83. White Peak |
| 11. Plain of Holderness | 29. Breckland | 48. South Coast Plain | 66. Mendips | 84. South West Peak |
| 12. Southern Pennines | 30. North Norfolk | 49. Isle of Wight | 67. Somerset Levels and Moors | 85. Dark Peak |
| 13. Coal Measures | 31. Broadland | 50. New Forest | 68. Avon Ridges and Valleys | 86. Urban Mersey Basin |
| 14. Southern Magnesian Limestone | 32. Suffolk Coast and Heaths | 51. South Wessex Downs | 69. Greater Cotswolds | 87. Lancashire Plain and Valleys |
| 15. Humberhead Levels | 33. East Anglian Plain | 52. Dorset Heaths | 70. Severn Valley | 88. Forest of Bowland |
| 16. Cotevolds | 34. Chilterns | 53. Isles of Portland and Purbeck | 71. Malvern Hills and Teme Valley | 89. Cumbrian Fells and Dales |
| 17. Sherwood Forest | 35. Oxford Clay Vales | 54. Wessex Vales | 72. Dean Flats and Wye Valley | 90. Eden Valley |
| 18. Trent Valley and Levels | 36. Oxford Heights | 55. Blackdowns | 73. Black Mountains and Golden Valley | 91. West Cumbria Coastal Plain |
| | 37. Wessex Downs | | | 92. Solway Basin |



- | | | | | | |
|--------------------------------------|---|---|---|----------------------------------|--|
| 1 North Northumberland Coastal Plain | 11 West Cumbria Coastal Plain | 21 Humber Estuary | 31 Derbyshire Peak Fringe and Lower Derwent | 41 Osewtry Uplands | 51 East Anglian Chalk |
| 2 Border Uplands | 12 Forest of Bowland | 22 Humberhead Levels | 32 Sherwood | 42 Shropshire Hills | 52 West Anglian Plain |
| 3 Solway Basin | 13 Lancashire Plain and Valleys | 23 Southern Magnesian Limestone | 33 Trent Valley and Rises | 43 Midlands Plateau | 53 Bedfordshire Greensand Ridge |
| 4 North Pennines | 14 Southern Pennines | 24 Coal Measures | 34 North Lincolnshire Coversands and Clay Vales | 44 Midland Clay Pastures | 54 Yareley-Whittlewood Ridge |
| 5 Northumbria Coal Measures | 15 Pennine Dales Fringe | 25 Dark Peak | 35 Lincolnshire Wolds | 45 Rockingham Forest | 55 Cotswolds |
| 6 Durham Magnesian Limestone Plateau | 16 Vale of York and Mowbray | 26 Urban Mersey Basin | 36 Lincolnshire Coast and Marshes | 46 Breckland | 56 Severn and Avon Vales |
| 7 Tees Lowlands | 17 North York Moors and Hills | 27 Mooses and Meres | 37 The Fens | 47 North Norfolk | 57 Malvern Hills and Teme Valley |
| 8 Yorkshire Dales | 18 Vale of Pickering | 28 Potteries and Charnet Valley | 38 Lincolnshire and Rutland Limestone | 48 The Broads | 58 Clun and North West Herefordshire Hills |
| 9 Eden Valley | 19 Yorkshire Wolds | 29 South West Peak | 39 Charnwood | 49 Suffolk Coast and Heaths | 59 Central Herefordshire |
| 10 Cumbria Fells and Dales | 20 Holderness | 30 White Peak | 40 Needwood and South Derbyshire (Claylands) | 50 East Anglian Plain | 60 Black Mountains and Golden Valley |
| 61 Dean Plateau and Wye Valley | 71 Romney Marshes | 81 Dorset Heaths | 91 South Devon | 101 Bindington to Skegness | 111 Lyme Bay |
| 62 Bristol, Avon Valleys and Ridges | 72 High Weald | 82 Isles of Portland and Purbeck | 92 Dartmoor | 102 The Wash | 112 Start Point to Land's End |
| 63 Thames and Avon Vales | 73 Low Weald and Pevensey | 83 Wessex Vales | 93 The Culm | 103 Old Hunstanton to Sheringham | 113 Isles of Scilly |
| 64 Midvale Ridge | 74 South Downs | 84 Mendip Hills | 94 Bodmin Moor | 104 Sheringham to Lowestoft | 114 Land's End to Minchhead |
| 65 Chilterns | 75 South Coast Plain and Hampshire Lowlands | 85 Somerset Levels and Moors | 95 Cornish Killas and Granites | 105 Suffolk Coast | 115 Bridgwater Bay |
| 66 London Basin | 76 Isle of Wight | 86 Mid Somerset Hills | 96 West Penwith | 106 North Kent Coast | 116 Severn Estuary |
| 67 Greater Thames Estuary | 77 New Forest | 87 Esmoor and the Quantocks | 97 The Lizard | 107 East Kent Coast | 117 Liverpool Bay |
| 68 North Kent Plain | 78 Hampshire Downs | 88 Vale of Taunton and Quantock Fringes | 98 Northumberland Coast | 108 Folkstone to Selwey Hill | 118 Morecambe Bay |
| 69 North Downs | 79 Berkshire and Marlborough Downs | 89 Blackdowns | 99 Tyne to Tees Coast | 109 Solent and Poole Bay | 119 Cumbrian Coast |
| 70 Walden Greensand | 80 South Wessex Downs | 90 Devon Kordlands | 100 Salburton to Bindington | 110 South Dorset Coast | 120 Solway Firth |