

Excursion planner - Glasgow and Girvan area

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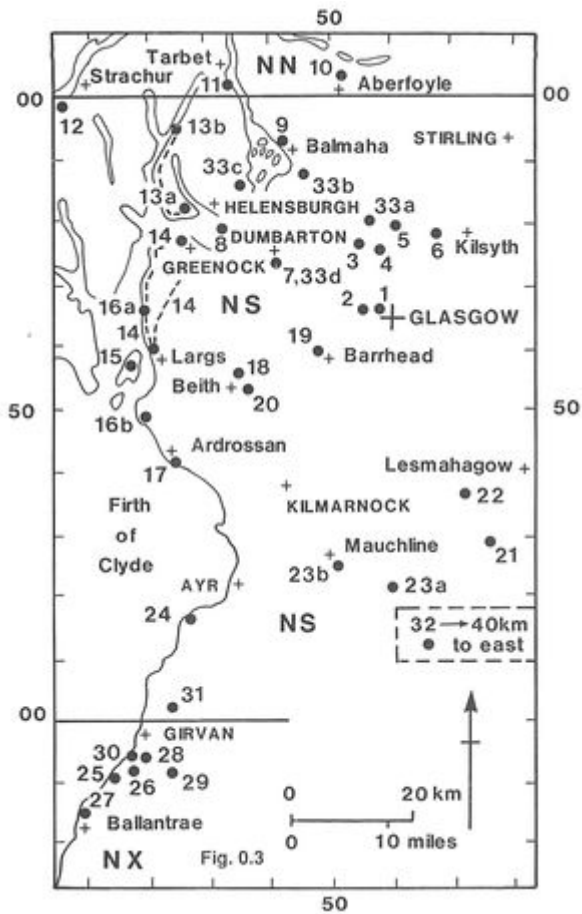


Figure 0.3. Map showing by the numbered dots the centres of location of the excursions

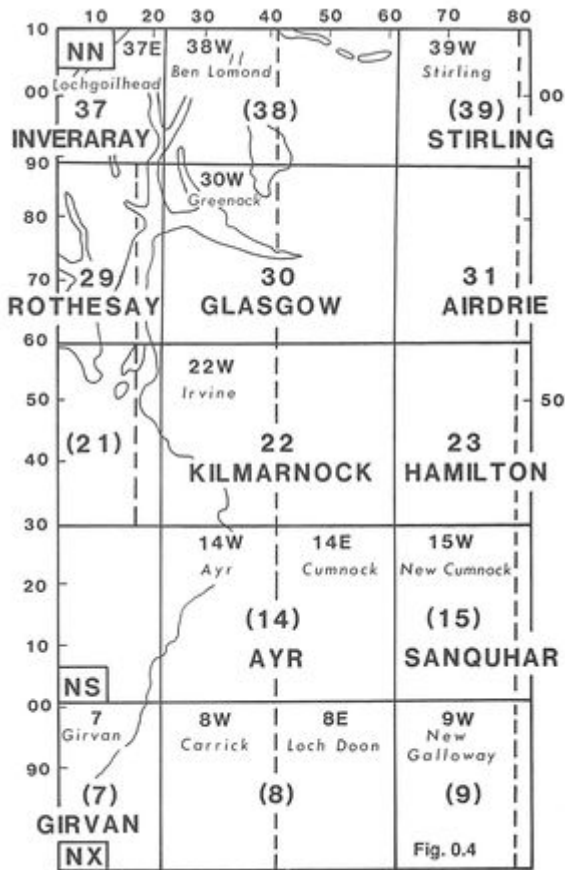


Figure 0.4. Map showing the present coverage of the area by British Geological Survey (B.G.S.) maps.

AGE SYSTEM and PERIOD	MAJOR ROCK UNITS	MAIN ROCK TYPES and SELECTED FORMATIONS	FOSSIL GROUPS	EVOLUTION	EXCURSIONS (Shaded Sites)	FIELD LATITUDE		
QUATERNARY		glacial deposits, alluvium, recent beach, dunes, peat	marine shells	glacial erosion & deposition changes of sea-level	33. Galloway 34. Carrick	57°N		
2 TERTIARY 145 CRETACEOUS 205 TRIASSIC		not present in this area for identification on the scale of maps				47°N		
250 PERMIAN	Mealline Sandstone Coil Mounth	red to blue bedded sandstones, shales and siltstones mudstones, sandstones, coarse fossiliferous shales, etc.	non-marine brachiopods, plants	erosion, tectonic events, rivers and lakes	37. Salsburgh	57°N		
CARBONIFEROUS	Passage Group Up. Limestone Gp. Limestone Coal Gp. U. Carboniferous Tps.	massive cross-bedded sandstones, shales, siltstone beds sandstones, shales, siltstones, shaly shales, etc. sandstones, shales, coals shales, mudstones, sandstones, etc.	plants trilobites, brachiopods, corals, etc.	large rivers and lakes tectonic events	37. Salsburgh 38. Heads of Ayr			
	Carlisleon Sandstone Mudstone	shales, siltstone, sandstone, etc.	non-marine brachiopods, plants, etc.	erosion, tectonic events, rivers and lakes	39. Trossachs, 4. Bannock, 5. Carrick, 6. Carrick, 7. Carrick, 8. Carrick, 9. Carrick, 10. Carrick, 11. Carrick, 12. Carrick, 13. Carrick, 14. Carrick, 15. Carrick, 16. Carrick, 17. Carrick, 18. Carrick, 19. Carrick, 20. Carrick, 21. Carrick, 22. Carrick, 23. Carrick, 24. Carrick, 25. Carrick, 26. Carrick, 27. Carrick, 28. Carrick, 29. Carrick, 30. Carrick, 31. Carrick, 32. Carrick, 33. Carrick, 34. Carrick, 35. Carrick, 36. Carrick, 37. Carrick, 38. Carrick, 39. Carrick, 40. Carrick, 41. Carrick, 42. Carrick, 43. Carrick, 44. Carrick, 45. Carrick, 46. Carrick, 47. Carrick, 48. Carrick, 49. Carrick, 50. Carrick, 51. Carrick, 52. Carrick, 53. Carrick, 54. Carrick, 55. Carrick, 56. Carrick, 57. Carrick, 58. Carrick, 59. Carrick, 60. Carrick, 61. Carrick, 62. Carrick, 63. Carrick, 64. Carrick, 65. Carrick, 66. Carrick, 67. Carrick, 68. Carrick, 69. Carrick, 70. Carrick, 71. Carrick, 72. Carrick, 73. Carrick, 74. Carrick, 75. Carrick, 76. Carrick, 77. Carrick, 78. Carrick, 79. Carrick, 80. Carrick, 81. Carrick, 82. Carrick, 83. Carrick, 84. Carrick, 85. Carrick, 86. Carrick, 87. Carrick, 88. Carrick, 89. Carrick, 90. Carrick, 91. Carrick, 92. Carrick, 93. Carrick, 94. Carrick, 95. Carrick, 96. Carrick, 97. Carrick, 98. Carrick, 99. Carrick, 100. Carrick			
	DEVONIAN	Upper Old Red Sandstone Lower Old Red Sandstone	fine to coarse sandstones, shales, siltstones, etc. coarse red sandstones and shales, etc.	plants, etc.	erosion, tectonic events, rivers and lakes	39. Trossachs, 4. Bannock, 5. Carrick, 6. Carrick, 7. Carrick, 8. Carrick, 9. Carrick, 10. Carrick, 11. Carrick, 12. Carrick, 13. Carrick, 14. Carrick, 15. Carrick, 16. Carrick, 17. Carrick, 18. Carrick, 19. Carrick, 20. Carrick, 21. Carrick, 22. Carrick, 23. Carrick, 24. Carrick, 25. Carrick, 26. Carrick, 27. Carrick, 28. Carrick, 29. Carrick, 30. Carrick, 31. Carrick, 32. Carrick, 33. Carrick, 34. Carrick, 35. Carrick, 36. Carrick, 37. Carrick, 38. Carrick, 39. Carrick, 40. Carrick, 41. Carrick, 42. Carrick, 43. Carrick, 44. Carrick, 45. Carrick, 46. Carrick, 47. Carrick, 48. Carrick, 49. Carrick, 50. Carrick, 51. Carrick, 52. Carrick, 53. Carrick, 54. Carrick, 55. Carrick, 56. Carrick, 57. Carrick, 58. Carrick, 59. Carrick, 60. Carrick, 61. Carrick, 62. Carrick, 63. Carrick, 64. Carrick, 65. Carrick, 66. Carrick, 67. Carrick, 68. Carrick, 69. Carrick, 70. Carrick, 71. Carrick, 72. Carrick, 73. Carrick, 74. Carrick, 75. Carrick, 76. Carrick, 77. Carrick, 78. Carrick, 79. Carrick, 80. Carrick, 81. Carrick, 82. Carrick, 83. Carrick, 84. Carrick, 85. Carrick, 86. Carrick, 87. Carrick, 88. Carrick, 89. Carrick, 90. Carrick, 91. Carrick, 92. Carrick, 93. Carrick, 94. Carrick, 95. Carrick, 96. Carrick, 97. Carrick, 98. Carrick, 99. Carrick, 100. Carrick		
	415 SILURIAN	Green & Malvern Valley Inliers Southern uplands	sandstones, shales, siltstones, etc. greenstones, black shales, etc.	trilobites, etc.	erosion, tectonic events, rivers and lakes	39. Trossachs, 4. Bannock, 5. Carrick, 6. Carrick, 7. Carrick, 8. Carrick, 9. Carrick, 10. Carrick, 11. Carrick, 12. Carrick, 13. Carrick, 14. Carrick, 15. Carrick, 16. Carrick, 17. Carrick, 18. Carrick, 19. Carrick, 20. Carrick, 21. Carrick, 22. Carrick, 23. Carrick, 24. Carrick, 25. Carrick, 26. Carrick, 27. Carrick, 28. Carrick, 29. Carrick, 30. Carrick, 31. Carrick, 32. Carrick, 33. Carrick, 34. Carrick, 35. Carrick, 36. Carrick, 37. Carrick, 38. Carrick, 39. Carrick, 40. Carrick, 41. Carrick, 42. Carrick, 43. Carrick, 44. Carrick, 45. Carrick, 46. Carrick, 47. Carrick, 48. Carrick, 49. Carrick, 50. Carrick, 51. Carrick, 52. Carrick, 53. Carrick, 54. Carrick, 55. Carrick, 56. Carrick, 57. Carrick, 58. Carrick, 59. Carrick, 60. Carrick, 61. Carrick, 62. Carrick, 63. Carrick, 64. Carrick, 65. Carrick, 66. Carrick, 67. Carrick, 68. Carrick, 69. Carrick, 70. Carrick, 71. Carrick, 72. Carrick, 73. Carrick, 74. Carrick, 75. Carrick, 76. Carrick, 77. Carrick, 78. Carrick, 79. Carrick, 80. Carrick, 81. Carrick, 82. Carrick, 83. Carrick, 84. Carrick, 85. Carrick, 86. Carrick, 87. Carrick, 88. Carrick, 89. Carrick, 90. Carrick, 91. Carrick, 92. Carrick, 93. Carrick, 94. Carrick, 95. Carrick, 96. Carrick, 97. Carrick, 98. Carrick, 99. Carrick, 100. Carrick		
445 ORDOVICIAN	Highland Border Complex (S.A.C.) Green Gneiss (S.O.) Salsburgh Complex (S.O.) Salsburgh Complex (S.O.) Salsburgh Complex (S.O.) Salsburgh Complex (S.O.)	shales, black shales, shales, etc. sandstones, shales, etc. shales, shales, etc. shales, shales, etc. shales, shales, etc. shales, shales, etc.	trilobites, etc.	erosion, tectonic events, rivers and lakes	39. Trossachs, 4. Bannock, 5. Carrick, 6. Carrick, 7. Carrick, 8. Carrick, 9. Carrick, 10. Carrick, 11. Carrick, 12. Carrick, 13. Carrick, 14. Carrick, 15. Carrick, 16. Carrick, 17. Carrick, 18. Carrick, 19. Carrick, 20. Carrick, 21. Carrick, 22. Carrick, 23. Carrick, 24. Carrick, 25. Carrick, 26. Carrick, 27. Carrick, 28. Carrick, 29. Carrick, 30. Carrick, 31. Carrick, 32. Carrick, 33. Carrick, 34. Carrick, 35. Carrick, 36. Carrick, 37. Carrick, 38. Carrick, 39. Carrick, 40. Carrick, 41. Carrick, 42. Carrick, 43. Carrick, 44. Carrick, 45. Carrick, 46. Carrick, 47. Carrick, 48. Carrick, 49. Carrick, 50. Carrick, 51. Carrick, 52. Carrick, 53. Carrick, 54. Carrick, 55. Carrick, 56. Carrick, 57. Carrick, 58. Carrick, 59. Carrick, 60. Carrick, 61. Carrick, 62. Carrick, 63. Carrick, 64. Carrick, 65. Carrick, 66. Carrick, 67. Carrick, 68. Carrick, 69. Carrick, 70. Carrick, 71. Carrick, 72. Carrick, 73. Carrick, 74. Carrick, 75. Carrick, 76. Carrick, 77. Carrick, 78. Carrick, 79. Carrick, 80. Carrick, 81. Carrick, 82. Carrick, 83. Carrick, 84. Carrick, 85. Carrick, 86. Carrick, 87. Carrick, 88. Carrick, 89. Carrick, 90. Carrick, 91. Carrick, 92. Carrick, 93. Carrick, 94. Carrick, 95. Carrick, 96. Carrick, 97. Carrick, 98. Carrick, 99. Carrick, 100. Carrick			
515 CAMBRIAN	Salsburgh Complex (S.O.) Salsburgh Complex (S.O.) Salsburgh Complex (S.O.)	shales, shales, etc. shales, shales, etc. shales, shales, etc.	trilobites, etc.	erosion, tectonic events, rivers and lakes	39. Trossachs, 4. Bannock, 5. Carrick, 6. Carrick, 7. Carrick, 8. Carrick, 9. Carrick, 10. Carrick, 11. Carrick, 12. Carrick, 13. Carrick, 14. Carrick, 15. Carrick, 16. Carrick, 17. Carrick, 18. Carrick, 19. Carrick, 20. Carrick, 21. Carrick, 22. Carrick, 23. Carrick, 24. Carrick, 25. Carrick, 26. Carrick, 27. Carrick, 28. Carrick, 29. Carrick, 30. Carrick, 31. Carrick, 32. Carrick, 33. Carrick, 34. Carrick, 35. Carrick, 36. Carrick, 37. Carrick, 38. Carrick, 39. Carrick, 40. Carrick, 41. Carrick, 42. Carrick, 43. Carrick, 44. Carrick, 45. Carrick, 46. Carrick, 47. Carrick, 48. Carrick, 49. Carrick, 50. Carrick, 51. Carrick, 52. Carrick, 53. Carrick, 54. Carrick, 55. Carrick, 56. Carrick, 57. Carrick, 58. Carrick, 59. Carrick, 60. Carrick, 61. Carrick, 62. Carrick, 63. Carrick, 64. Carrick, 65. Carrick, 66. Carrick, 67. Carrick, 68. Carrick, 69. Carrick, 70. Carrick, 71. Carrick, 72. Carrick, 73. Carrick, 74. Carrick, 75. Carrick, 76. Carrick, 77. Carrick, 78. Carrick, 79. Carrick, 80. Carrick, 81. Carrick, 82. Carrick, 83. Carrick, 84. Carrick, 85. Carrick, 86. Carrick, 87. Carrick, 88. Carrick, 89. Carrick, 90. Carrick, 91. Carrick, 92. Carrick, 93. Carrick, 94. Carrick, 95. Carrick, 96. Carrick, 97. Carrick, 98. Carrick, 99. Carrick, 100. Carrick			
570 PRECAMBRIAN	Southern Highland Group	schists, gneisses, etc.	trilobites, etc.	erosion, tectonic events, rivers and lakes	39. Trossachs, 4. Bannock, 5. Carrick, 6. Carrick, 7. Carrick, 8. Carrick, 9. Carrick, 10. Carrick, 11. Carrick, 12. Carrick, 13. Carrick, 14. Carrick, 15. Carrick, 16. Carrick, 17. Carrick, 18. Carrick, 19. Carrick, 20. Carrick, 21. Carrick, 22. Carrick, 23. Carrick, 24. Carrick, 25. Carrick, 26. Carrick, 27. Carrick, 28. Carrick, 29. Carrick, 30. Carrick, 31. Carrick, 32. Carrick, 33. Carrick, 34. Carrick, 35. Carrick, 36. Carrick, 37. Carrick, 38. Carrick, 39. Carrick, 40. Carrick, 41. Carrick, 42. Carrick, 43. Carrick, 44. Carrick, 45. Carrick, 46. Carrick, 47. Carrick, 48. Carrick, 49. Carrick, 50. Carrick, 51. Carrick, 52. Carrick, 53. Carrick, 54. Carrick, 55. Carrick, 56. Carrick, 57. Carrick, 58. Carrick, 59. Carrick, 60. Carrick, 61. Carrick, 62. Carrick, 63. Carrick, 64. Carrick, 65. Carrick, 66. Carrick, 67. Carrick, 68. Carrick, 69. Carrick, 70. Carrick, 71. Carrick, 72. Carrick, 73. Carrick, 74. Carrick, 75. Carrick, 76. Carrick, 77. Carrick, 78. Carrick, 79. Carrick, 80. Carrick, 81. Carrick, 82. Carrick, 83. Carrick, 84. Carrick, 85. Carrick, 86. Carrick, 87. Carrick, 88. Carrick, 89. Carrick, 90. Carrick, 91. Carrick, 92. Carrick, 93. Carrick, 94. Carrick, 95. Carrick, 96. Carrick, 97. Carrick, 98. Carrick, 99. Carrick, 100. Carrick			

Table 0.1 Stratigraphical succession for the Glasgow and Girvan areas.

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List of excursions

1. [Building stones of Glasgow](#)
2. [Fossil Grove](#)
3. [Milngavie and Mugdock](#)
4. [Baldernock and Blairskaitth](#)
5. [Campsie Glen](#)
6. [Corrie Burn](#)
7. [Dumbarton Rock](#)
8. [Ardmore Point and Auchensail](#)
9. [Balmaha](#)
10. [Aberfoyle district](#)
11. [Loch Lomondside](#)
12. [Sithean Sluaigh](#)
13. [Rosneath Peninsula and Loch Long](#)
14. [Greenock to Largs](#)
15. [Great Cumbrae](#)
16. [Upper Old Red Sandstone of the Firth of Clyde](#)
17. [Saltcoats](#)
18. [Loanhead Quarry](#)
19. [Boyleston Quarry](#)
20. [Tearne Quarry](#)
21. [Hagshaw Hills](#)
22. [Lesmahagow](#)
23. [Lugar Sill and Mauchline](#)

[24. Heads Of Ayr](#)

The Girvan-Ballantrae District (25-31)

[25. Pinbain Block](#)

[26. Knocklaugh](#)

[27. Bennane Head to Downan Point](#)

[28. Dow Hill, Byne Hill and Ardmillan Braes](#)

[29. Upper Stinchar Valley and adjacent areas](#)

[30. Girvan Foreshore](#)

[31. The Craighead Inlier](#)

[32. Dob's Linn](#)

[33. Quaternary](#)

Standards of excursions

Less advanced

Can provide advanced study as well.

1,2,3,4,5,6,7,8,14,15,17,18,19,20,21,23,24,31,33 (excursion) plus introductory itineraries for Girvan (25,26,27,28,29,30) and Dob's Linn (32).

More advanced

Has impressive exposures for all levels of knowledge and explanation of the more advanced features in most cases.

9-faulting and terrane development

10-cleavage and overfolding

11-polyphase deformation

12-a metamorphic aureole

13-Dalradian structures

16-alluvial palaeoenvironments in Old Red Sandstone

20-palaeoecology in the Carboniferous

22-arthropods and early fish (Silurian)

25 to 30-history of the Girvan area (plate tectonics)

32-graptolite succession

33-Quaternary (account)

Topics in excursions

The Stratigraphical summary ([Table 0.1](#)) indicates which excursions are most suitable for studying particular examples of the following:

1. Stratigraphical systems
2. Rock groups or important formations
3. Sedimentary facies
4. Faunal associations

More detailed information is given under the heading Features at the beginning of each excursion account.

The following topics are not adequately covered in (Table 0.1).

Igneous intrusions

a) sills: excursions [3](#), [17](#), [23](#)

b) dykes: excursions [3](#), [14](#), 15, 17, 18, 24, 25, 30

c) plugs and vents: excursions 7, 12, 24

Metamorphism excursions

Excursions [10](#), [11](#), [12](#), [13](#)

Structural features

a) simple folds: excursion 8

b) complex folds: excursions 10, 11, 13, 25

c) minor faults (visible): excursions 7, 8, 13, 14, 15, 24, 27, 28, 29, 30, 32

d) major faults (not usually visible): excursions 5, 6, 9, 10

e) cleavage: excursions 10, 11, 13

Fossil collecting

- a) Ordovician and Silurian shells: excursions 28, 29, 30, 31
- b) Ordovician and Silurian graptolites: excursion 32
- c) Devonian plants: excursion 8
- d) Carboniferous shells: excursions 4, 5, 6, 20
- e) Carboniferous plants: excursion 2

Mineral collecting excursions

Excursions 18, 19, 20

Timing of excursions

Estimates of the time needed for each excursion are provided at the beginning of each account. In some cases a shortened itinerary is suggested.

1. Suitable for half-day or summer evening Excursions 2, 3, 4, 5, 6, 7, 8, 9, 17, 18, 19, 20
2. Combinations of above geographically convenient for a day trip Excursions 1 and 2: 3 and 4: 7 and 8: 18 and 19: 18 and 20
3. Week-end trip Selected localities in the Girvan and Ballantrae area from Excursions 25 to 31. See Introduction to Girvan-Ballantrae section.

Maps

The 1: 63 360 and 1 : 50 000 geological (BGS) maps which cover the area are shown on [\(Figure 0.4\)](#).

The following O.S. 1 : 50 000 maps cover the excursion area:

56 Inveraray and Loch Lomond

57 Stirling and The Trossachs

63 Firth of Clyde

64 Glasgow

70 Ayr and Kilmarnock

71 Lanark and Upper Nithsdale

76 Girvan

79 Hawick and Eskdale

At all times follow: [The Scottish Access Code](#) and [Code of conduct for geological field work](#)

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