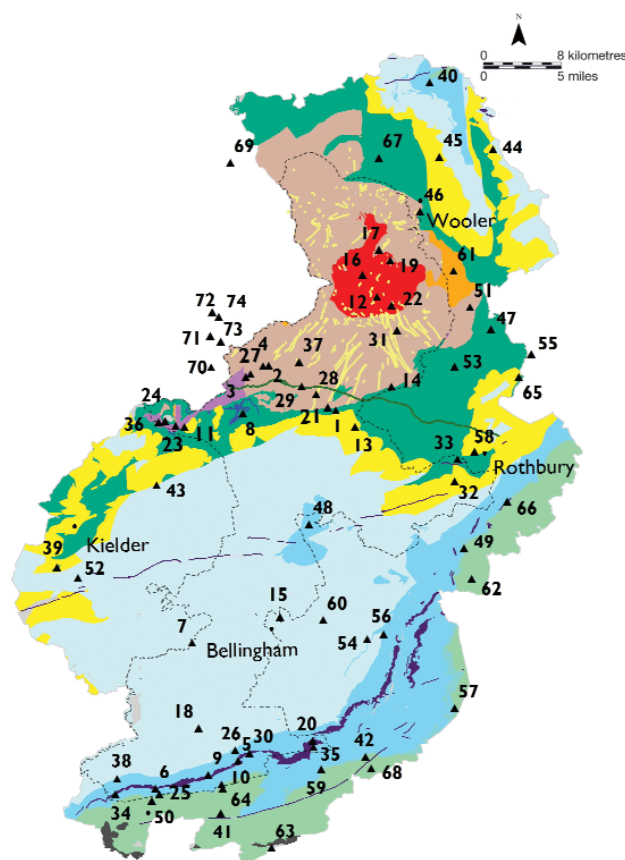


Geodiversity sites in Northumberland National Park and the surrounding area

A number of Geodiversity sites have been identified as part of this study. They have been selected as representative examples of particular geological features in the context of Northumberland National Park and surrounding area. They do not replace, but stand alongside, SNCIs, SSSIs and other designated sites.

It is recommended that this site list should form the basis for undertaking actions 2 to 6 in the preceding Northumberland National Park Geodiversity Action Plan. It is anticipated that the list will be revised during implementation of the Action Plan.

Many of these sites are also considered appropriate for interpretation and are discussed earlier in this publication (Pages 105 to 112).



Geodiversity sites

| Geodiversity site | Geological feature | Condition | Status |
|---|---|--|---|
| Sites within Northumberland National Park | | | |
| 1 Barrow Scar [NT 900 061] | River banks and cliffs exposing sandstone, mudstone and limestone sequence | Stable, partly overgrown | SNCI, SSSI and MoD training area |
| 2 Blindburn [NT 830 108] | River bank and stream bed exposures display lava flow over irregular surface of lapilli-tuff | Stable | SNCI, SSSI and MoD training area |
| 3 Bridge over R Coquet , NE of Makendon [NT 806 096] | River banks and hillside outcrops expose folded and steeply dipping shales | Stable | SSSI and MoD training area |
| 4 Buckham's Bridge [NT 824 107] | Abandoned roadside quarry displays flow-banding and flow-jointing in andesite | Stable | SSSI, Access Land and MoD training area |
| 5 Busy Gap [NY 798 695] | Hillside with natural rock outcrops of Whin Sill, metamorphic rocks and geological structures | Stable | SSSI and Access Land |
| 6 Cawfields Quarry [NY 712 666] | Abandoned Whin Sill quarry, also exposes sedimentary rocks and geological structures | Stable, face becoming obscured by vegetation | SNCI |
| 7 Chirdon Burn [NY 750 818] | Natural exposures of sedimentary rocks in stream bank and cliffs | Unknown | SNCI and Access Land |

| | Geodiversity site | Geological feature | Condition | Status |
|----|--|--|--|-----------------------------------|
| 8 | Cottonshope Head Quarry [NY 750 818] | Abandoned roadside quarry exposes basaltic lavas and underlying/overlying sediments | Stable but degraded | SSSI, SNCI and MoD training area |
| 9 | Crag Lough [NY 767 680] | Lough formed by fast ice flow during glaciation | Stable | SSSI |
| 10 | Crindledykes West Quarry [NY781 670] | Abandoned Great Limestone quarry and limekiln | Stable | Some areas are Access Land |
| 11 | Echo Crags [NT 742 044] | Natural sandstone escarpment on hillside displaying sedimentary structures with small abandoned quarry | Stable | SNCI and Access Land |
| 12 | Great Standrop [NT 943 180] | Tor formed of granitic rock | Stable | SSSI and Access Land |
| 13 | Harbottle Crags [NT 920 044] | Hillside crags of sandstone with abandoned millstone quarry | Stable | NWT reserve |
| 14 | Harden Quarry [NT 958 086] | Working aggregates quarry in minor intrusion associated with Cheviot granite | Active quarry faces change regularly | SSSI, NWT reserve and Access Land |
| 15 | Hareshaw Burn [NY 842 844 to NY 842 846] | River banks and cliffs display sedimentary sequence, remains of ironstone workings, Hareshaw Linn waterfall | Stable, some areas overgrown | Active quarry |
| 16 | Harthope Burn [NT 927 202] | River banks and cliffs display contact between two different types of granitic rock | Stable | SSSI |
| 17 | Hawsen Burn [NT 940 230 to NT 950 228] | River banks and cliffs display granophyric granite, dykes cutting andesite and saprolitic granite. Fault rock, quartz veins and breccia also exposed | Stable, naturally vegetated in parts, some minor landslips | SSSI and Access Land |
| 18 | Henshaw Common [NY 757 729] | Thick peat deposits in large elongate grooves, which potentially have a long (> 15 000 year) environmental record | Stable, but surface disturbed by forestry operations | SSSI and Access Land |
| 19 | Housey Crags [NT 957 218] | Tor formed of hornfels | Stable | Access Land |
| 20 | Limestone Corner [NY 876 716] | Whin Sill partially excavated from Vallum of Hadrian's Wall | Stable | SSSI and Access Land |
| 21 | Linbriggs [NT 891 064] | Roadside and river cliffs expose features associated with lava flows and flow breccias | Stable, some river cliff areas may be subject to rockfalls | SAM |
| 22 | Linhope Spout [NT 958 171] | Waterfall and surrounding outcrops display granitic rock (quartz-monzonite) | Stable | MoD training area |
| 23 | Lower Ramshope Burn [NT 733 045] | River banks reveal steeply dipping shales showing sedimentary structures and fossils | Stable | SNCI and Access Land |
| 24 | Lumsdon Law [NT 722 050] | Abandoned quarry in porphyritic basalt displays igneous structures and good views over the Upper Rede valley | Stable | Access Land |

Geodiversity sites

| Geodiversity site | Geological feature | Condition | Status |
|---|---|---|--|
| 25 Milecastle Inn [NY 716 660] | Abandoned limestone quarries in Four Fathom Limestone | Stable | SNCI and Access Land |
| 26 Queen's Crag [NY 795 706] | Hillside with crags of sandstone and small abandoned (some Roman) quarries | Stable | SNCI |
| 27 River Coquet , 3/4km WSW of Fulhope [NT 811 099] | Hillside outcrops showing unconformity between steeply dipping mudstones and overlying volcanoclastic breccia, at base of Cheviot Volcanics | Stable | SSSI and Access Land |
| 28 River Coquet , SE of Kateshaw Crag [NT 879 078] | Riverbank exposures showing intrusive feldspar porphyry dyke, one of a radial swarm | Stable | SSSI and Access Land MOD Training Area |
| 29 River Coquet , E of Dumbhope Law [NT 864 086] | River outcrops of the Acklington Dyke | Stable | SSSI and Access Land MOD Training Area |
| 30 Sewingshields Crag [NY 810 703] | Hillside rock outcrops of the Whin Sill and a meltwater channel | Stable, bedrock is poorly exposed | SNCI, SSSI and MoD training area |
| 31 Shank Burn [NT 964 145] | Large meltwater channel | Stable | SSSI |
| 32 Simonside Hills and Lordenshaws [NZ 024 987] | Hillside sandstone outcrops with archaeological interest | Stable | Access Land |
| 33 Tosson Quarry and Limekiln [NU 027 010] | Abandoned limestone quarry and limekiln, which has been restored as tourist attraction | Stable, quarry is degraded, | SSSI and Access Land (Simonside Hills only) |
| 34 Walltown Quarry [NY 670 660] | Abandoned Whin Sill quarry with nature trails Sedimentary rocks above sill also exposed | Stable, saplings obscure part of face | SNCI |
| 35 Walwick Fell [NY 877 709] | Limestone grassland with small abandoned limestone quarries | Unknown | Private land |
| 36 Whitelee Bridge and Lumsdon Burn [NT 715 049] | Road cutting and stream bank sections formerly exposed steeply dipping shales and breccia | Stable, road section is very degraded and overgrown | SNCI and NWT reserve |
| 37 Windyhaugh [NT 715 049] | River bank exposures of flow-brecciated andesite with laminated internal sediment | Stable | SNCI, SSSI and MoD training area |
| 38 Tipalt Burn [NY 659 661 - NY 687 683] | Stream section with river banks displaying sedimentary sequence including fossils | Stable | SSSI and Access Land (north part) |

Sites within district, but outside Northumberland National Park

| | | | |
|--|---|---------------------------------------|----------------------|
| 39 Akenshaw Burn [NY 609 897] | Stream bank section through mudstone and cementstone sequence | Stable, subject to some river erosion | SNCI and Access Land |
| 40 Barmoor Mill Quarry [NT 998 404] | Old quarry face exposing the Eelwell Limestone | Stable | SNCI |
| 41 Beltingham Shingles [NY 780 640] | Riverside shingle banks rich in minerals and of ecological importance | Stable | SSSI and NWT reserve |

| Geodiversity site | Geological feature | Condition | Status |
|--|---|---|-------------------------------|
| 42 Black Pasture Quarry [NY 931 699] | Abandoned sandstone quarry, adjacent to periodically active quarry, reveals shelly horizons in the sandstone and good sedimentary structures | Stable but seriously overgrown in old quarry | NWT reserve and active quarry |
| 43 Blakehope Nick Quarry [NY 713 983] | Disused sandstone/sand quarry along Kielder Forest Drive; fossil plant pieces and mineralised fractures exposed in deeply weathered sandstone | Stable | SSSI and Access Land |
| 44 Dancing Green Hill [NU 064 334] | Natural sandstone escarpment on open moor displays sedimentary structures | Stable | Access Land |
| 45 Doddington Quarry [NU 008 326] | Abandoned sandstone quarry, adjacent to periodically active quarry | Stable. Changing exposures in working quarry | Active quarry and Access Land |
| 46 Earl Quarry [NT 988 269] | Inactive quarry exposes extrusive volcanic andesites | Stable, periodic working may occur | SNCI |
| 47 Glanton Pike Quarry [NU 062 146] | Abandoned sandstone quarry, displaying sedimentary features | Stable, partly overgrown and some rubbish tipped | Private Land |
| 48 Greenchesters Quarry and Limekiln [NY 875 943] | Abandoned Oxford Limestone quarry and limekiln | Stable, quarry is very degraded | SNCI |
| 49 Greenleighton Quarry [NZ 034 917] | Abandoned quarry in Great Limestone | Stable | SSSI |
| 50 Haltwhistle Burn [NY 714 659 – NY 708 648] | Stream section with river cliffs displaying sedimentary sequence | Stable | SNCI |
| 51 Ingram valley [NU 040 169] | Cobble gravel alluvial terraces in valley floor | Relatively stable except in flood events | SNCI and SSSI |
| 52 Lewis Burn [NY 631 886] | River bank sections alongside good cycle track displaying sedimentary sequence with fossils and structures; small abandoned quarry | Stable, some areas overgrown, river too big to cross | SNCI and Access Land |
| 53 Little Ryle Quarry [NU 024 107] | Abandoned sandstone quarry with views to the Cheviot Hills | Stable, partly overgrown | Private Land |
| 54 Long Crags [NY 933 822] | Natural sandstone escarpment on hillside displaying sedimentary structures | Stable | Access Land |
| 55 Low Broomepark [NU 104 120] | Road cutting through thick sedimentary sequence with moderate dip | Stable, but now very degraded adjacent to fairly busy public road | SNCI |
| 56 Lunga Crags [NU 104 120] | Natural sandstone escarpment displaying sedimentary structures | Stable | Access Land |
| 57 Mootlaw Quarry [NZ 024 750] | Working aggregates quarry in Great Limestone displays good geological structures | Quarry face sections change over time | Active quarry |
| 58 Pondicherry [NU 045 018] | Disused quarries with large sandstone faces | Stable | Adjacent to footpath |

Geodiversity sites

| Geodiversity site | Geological feature | Condition | Status |
|---|--|---|--------------------------------|
| 59 Prudhamstone Quarries [NY 885 686] | Abandoned sandstone and limestone quarries with high faces displaying sedimentary sequence; old millstones lying around | Stable, but becoming overgrown High faces | SNCI |
| 60 Redesdale Ironstone Quarry [NY 887 842] | Abandoned ironstone quarry with fossiliferous limestone and mudstone units | Stable | SNCI |
| 61 Roddam Dene Bedrock Landforms [NU 023 207] [NU 036 207] | River bank and cliff exposures of sandstone and conglomerates; access is difficult. Ice-contact deposits and landforms (kames, deltaic sediments, etc) | Bedrock stable; section in ice-contact deposits is being eroded | SNCI and SSSI |
| 62 Rothley Crag [NZ 042 885] | Natural sandstone crags on hillside displaying sedimentary structures and sandstone folly | Stable | Access Land |
| 63 Stublick Colliery [NY 833 604] | Former colliery buildings | Stable | SAM |
| 64 Thorngrifton Common [NY 782 666] | Hillside with natural outcrops of sandstone | Stable | Access Land |
| 65 Thrunton Quarry [NU 091 096] | Brick clay quarry exposes pro-glacial laminated lake clays | Stable | Active quarry |
| 66 Wards Hill Quarry [NZ 079 966] | Abandoned quarry, Whin Sill intruded into Great Limestone | Stable | Private Land, adjacent to road |
| 67 Woodbridge Quarry [NT 945 325] | Sand and gravel quarry exposes glacio-fluvial deltaic sediments and periglacial features | Stable | Active quarry |
| 68 Written Crag [NY 937 687] | Natural crags and abandoned Roman sandstone quarries | Unknown | Private Land |

Sites on the Cheviot massif outside district

| | | | |
|--|--|------------------------------------|----------|
| 69 South of Coldstream [NT 790 320] | Streamlined glacial deposits and bedrock, e.g. drumlins | Stable | Scotland |
| 70 Nether Hindhope [NT 790 320] | Disused quarry exposing steeply dipping shales | Stable | Scotland |
| 71 Hangingshaw Hill [NT 769 139] and Quarry [NT 765 142] | Hillside displays meltwater channel cutting through weathered bedrock. Disused quarry in deeply weathered andesite | Stable | Scotland |
| 72 Kippie Knowe Quarry [NT 778 159] | Disused quarry exposes saprolitic deposit in pyroclastic breccia | Stable | Scotland |
| 73 Stanshiel Hill [NT 780 133] | Solifluction deposits on hillside – talus, head | Stable | Scotland |
| 74 Swanlaws Quarry [NT 771 164] | Inactive quarry exposing saprolitic deposits developed in flow-banded andesite | Stable, periodic working may occur | Scotland |