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# Skye & Raasay Geology

Brian Bell

## List of excursions

### Cuillin Hills

#### Excursion Cuillin 1: [Camasunary Bay](#)

**Aspects covered:** Mesozoic sedimentary rocks; Paleocene lavas and dykes; Late Proterozoic ('Torridonian') sedimentary rocks; the Camasunary-Skerryvore Fault; Holocene raised marine deposits; the Coire Uaigneich Granite; hornfelsed basaltic lavas; Ordovician marbles and the Kishorn Thrust; a complex marginal facies of the Cuillin Intrusive Centre; Torridonian sedimentary rocks subjected to high-temperature contact metamorphism and melting.

Grid references mentioned in the text

[NG 5449 1720]

[NG 5344 1772]

[NG 5269 1803]

[NG 5180 1863]

[NG 5169 1820]

[NG 5155 1878]

[NG 5094 1873]

[NG 5079 1911]

[NG 5092 1922]

[NG 5110 1924]

[NG 5110 1924]

[NG 5097 1965]

[NG 5195 1992]

#### Excursion Cuillin Hills 2: [South Loch Coruisk](#)

**Aspects covered:** banding, brecciation and layering within the Layered Peridotites; layering and blocks within the Outer Bytownite Gabbros; the glacial morphology, landforms and deposits of the Loch Coruisk basin.

Grid references mentioned in the text

[NG 5451 1719]

[NG 5131 1876]

[NG 4901 1927]

[NG 4825 1948]

[NG 4833 1988]

[NG 4862 2077]

### **Excursion Cuillin Hills 3: [Sròn na Cìche and Coir' a' Ghrunnda](#)**

**Aspects covered:** Paleocene hydrothermally altered plateau lavas; conglomerates interbedded with the lavas; the Outer Gabbros; the Outer Bytownite Troctolites; Layered Peridotites; intrusive tholeiite dolerite sheets; cone-sheets; xenolithic and non-xenolithic peridotite dykes; a breccia pipe; Quaternary glacial landforms and deposits of the SW part of the Cuillin Hills (corries, arêtes, horns, moraines)

Grid references mentioned in the text

[NG 4121 2154]

[NG 4127 2155]

[NG 4143 2144]

[NG 4440 2041]

[NG 4482 2052]

[NG 4509 2007]

### **Excursion Cuillin Hills 4: [Druim Hain to Sgùrr na Stri](#)**

**Aspects covered:** various textural varieties of coarse-grained layered and unlayered basic igneous rocks; the Meall Dearg Granite; cone-sheets; the glacial morphology and landforms of the Loch Coruisk basin

Grid references mentioned in the text

[NG 5010 2137]

[NG 5451 1719]

[NG 5131 1876]

[NG 4930 2256]

[NG 5010 2137]

[NG 4987 2059]

### **Excursion Cuillin Hills 5: [Soay Sound: An Leac](#)**

**Aspects covered:** Paleocene plateau lavas (An Leac Member of the Rubha an Dùnain Formation); aa-textured lava; Paleocene dykes and sills; Triassic (Stornoway Formation) conglomerates, breccias and sandstones; Lower Jurassic (Ardnish Formation) calcareous sandstones, siltstones and shales, and limestones; Late Proterozoic (Torridonian) pebbly red sandstones (feldspathic arenites) of the Bheinn Bhreac Member of the Applecross Formation (Torridon Group); the base Paleocene unconformity.

Grid references mentioned in the text

[NG 4415 1701]

[NG 4406 1699]

[NG 4394 1693]

[NG 5111 1908]

[NG 4390 1697]

[NG 4378 1694]

#### **Excursion Cuillin Hills 6: [Coire Uaigneich and Blà-bheinn](#)**

**Aspects covered:** Glacial and post-glacial topography; hornfused Middle Jurassic Great Estuarine Group strata; hornfused Paleocene basaltic lavas; Paleocene dykes and cone-sheets; the Coire Uaigneich Granite; Outer Bytownite Gabbros of the Paleocene Cuillin Intrusive Centre

Grid references mentioned in the text

[NG 5404 2160]

[NG 5381 2136]

[NG 5317 2099]

#### **Excursion Cuillin Hills 7: [Kilmarie to Sligachan](#)**

**Aspects covered:** Mesozoic sedimentary rocks; Paleocene lavas and dykes; Late Proterozoic ('Torridonian') sedimentary rocks; the Camasunary-Skerryvore Fault; Holocene raised marine deposits; the Coire Uaigneich Granite; Ordovician marbles and the Kishorn Thrust; a complex marginal facies of the Paleocene Cuillin Intrusive Centre; Torridonian sedimentary rocks subjected to high-temperature contact metamorphism and melting; granites and related rocks of the Srath na Crèitheach and Western Red Hills intrusive centres.

Grid references mentioned in the text

[NG 5452 1721]

[NG 5449 1720]

[NG 5344 1772]

[NG 5269 1803]

[NG 5180 1863]

[NG 5169 1820]

[NG 5155 1878]

[NG 5094 1873]

[NG 5079 1911]

[NG 5092 1922]

[NG 5110 1924]

[NG 5097 1965]

[NG 4992 2586]

[NG 5010 2581]

[NG 4951 2721]

**Excursion Cuillin Hills 8: [Soay Sound: Rubha an Dùnain](#)**

**Aspects covered:** Paleocene basaltic plateau lavas; lateritised tops of lavas; Paleocene dykes of the regional swarm; section views of lava-dominated cliffs; geos (gio or gjá); views of the Cuillin Hills; glacial erratics

[NG 4012 1657]

[NG 3929 1640]

[NG 3943 1623]

[NG 3958 1595]

Excursion Cuillin Hills 9: [Coire Làgan](#)

**Aspects covered:** hydrothermally altered Paleocene plateau lavas; conglomerates interbedded with the lavas; various units of the Paleocene Cuillin Intrusive Centre: the Outer Gabbros; the Outer Bytownite Troctolites; intrusive tholeiite dolerite sheets; dolerite dykes; cone-sheets; non-xenolithic peridotite dykes; Quaternary glacial landforms (corries, arêtes, horns, roche moutonnées with glacial striae) and glacial deposits of the SW part of the Cuillin Hills.

[NG 4121 2154]

[NG 4127 2155]

[NG 4143 2144]

[NG 4445 2090]

**Excursion Cuillin Hills 10: [Sgùrr Dearg and the Inaccessible Pinnacle](#)**

**Aspects covered:** various units of the Paleocene Cuillin Intrusive Centre: the Outer Gabbros; the Outer Bytownite Troctolites; intrusive tholeiite dolerite sheets; dolerite dykes; cone-sheets; xenolithic and non-xenolithic peridotite dykes; Quaternary glacial landforms and deposits of the SW part of the Cuillin Hills (corries, arêtes, horns, trimlines, moraines).

[NG 42216 21307]

[NG 43045 20531]

[NG 4442 2155]

[NG 44478 21492]

**Excursion Cuillin Hills 11: [Fionn Choire](#)**

**Aspects covered:** hydrothermally-altered plateau lavas and sedimentary units; silicic pyroclastic rocks (lava-like ignimbrite, tuff, lapilli-tuff, breccia); basic minor intrusions; glacial landforms and deposits of the northern part of the Cuillin Hills

[NG 4239 2581]

[NG 4508 2679]

[NG 4513 2671]

[NG 4532 2656]

[NG 4573 2671]

[NG 4593 2699]

[NG 4603 2692]

[NG 4593 2699]

[NG 4603 2692]

[NG 4603 2692]

[NG 4239 2581]

[NG 4629 2521]

#### **Excursion Cuillin Hills 12 [Bruache na Frithe](#)**

**Aspects covered:** large-scale geological features of the Paleocene gabbro-dominated Cuillin Hills, the granite-dominated Red Hills and the lava field of North Skye; Quaternary glacial features (and deposits)

[NG 4629 2521]

[NG 4239 2581]

#### **Excursion Cuillin Hills 13: [An Garbh-choire](#)**

**Aspects covered:** textural features of the Layered Peridotites; glacial morphology and landforms.

[NG 5451 1719]

[NG 5131 1876]

[NG 4825 1948]

### **Red Hills**

#### **Excursion Red Hills 1: [Loch Ainort](#)**

**Aspects covered:** the Beinn Dearg Mhòr Granite; the Loch Ainort Granite; ferrodiorite unit of the Marscoite Suite; the Marsco Granite; the Ruadh Stac and Meall Dearg granites of the Srath na Crèitheach Intrusive Centre; the Outer Bytownite Gabbros of the Cuillin Intrusive Centre; explosion breccias; the Glas-Bheinn Mhòr Granite of the Eastern Red Hills Intrusive Centre.

[NG 5303 2791]

[NG 5318 2641]

[NG 5199 2552]

[NG 5202 2478]

[NG 5251 2439]

[NG 5270 2418]

[NG 5308 2418]

[NG 5419 2480]

**Excursion Red Hills 1: Moll not currently available**

No Grid references

**Excursion Red Hills: [Glamaig](#)**

[NG 4867 2982]

[NG 4977 2964]

[NG 5005 2964]

[NG 5049 2925]

**Excursion Red Hills 4: [Marsco](#)**

**Aspects covered:** hydrothermally-altered Paleocene plateau lavas; the Paleocene Glamaig Granite (normal and marginal facies); alkali olivine dolerite dykes of the Beinn Dearg Type; the Glen Sligachan Granite; the Southern Porphyritic Granite; the hybrid (mixed magma) ring-dyke composed of the Marscoite Suite: the Southern Porphyritic Felsite, a ferrodiorite intrusion and the Southern Porphyritic Felsite; xenoliths of Lewisian Gneiss within the ferrodiorite intrusion; the Marsco Granite; (option: the Marsco Summit Gabbro and summit panorama view)

[NG 4867 2982]

[NG 4953 2720]

[NG 4954 2693]

[NG 4991 2587]

[NG 5010 2579]

[NG 5074 2519]

**Strath**

**Excursion Strath 1: [Broadford Bay](#)**

**Aspects covered:** Lower Jurassic marine sandstones, siltstones, shales, limestones, including two coral beds, and clastic units with chamosite oolites; Paleocene dolerite dykes and sills; a composite sill; minor faults.

[NG 7017 2493]

[NG 6981 2507]

[NG 6745 2421]

[NG 6780 2471]

[NG 6832 2494]

[NG 6832 2494]

[NG 6460 2480]

### **Excursion Strath 2: [Old Kilchrist Manse](#)**

**Aspects covered:** unmetamorphosed and metamorphosed dolerite dykes; folded, contact-metamorphosed Cambro-Ordovician Durness Group dolostones and marble; the Paleocene Beinn an Dubhaich Granite of the Eastern Red Hills Intrusive Centre; contact skarns; abandoned marble quarries.

[NG 6150 2025]

[NG 6167 2008]

[NG 6191 1977]

### **Excursion Strath 3: [Strath Marble Quarries](#)**

**Aspects covered:** details of the Cambro-Ordovician Durness Group dolostones and marbles; historic development of quarrying activity; the abandoned Suardal/Kilchrist quarries and narrow-gauge rail system; roadside abandoned quarry at Cnoc Slapin; the active Torrin Quarry.

[NG 6171 2070]

[NG 6210 2013]

[NG 6218 2015]

[NG 6218 2015]

[NG 6218 2015]

[NG 6186 1978]

[NG 6185 1979]

[NG 6192 1977]

[NG 6192 1977]

[NG 6198 2074]

[NG 6198 2074]

[NG 6198 2074]

[NG 6414 2363]

[NG 6414 2363]

[NG 5733 2131]

[NG 5936 2013]

[NG 5839 2011]

**Excursion Strath 4: [Beinn an Dubhaich](#)**

**Aspects covered:** Holocene raised marine deposits at Camas Malag; the Paleocene Beinn an Dubhaich Granite of the Eastern Red Hills Intrusive Centre; Cambro-Ordovician Durness Group dolostones, locally thermally metamorphosed to produce marbles; dykes of the Paleocene regional swarm; Triassic and Lower Jurassic sedimentary rocks; Cambrian sandstones (quartzites); Torridonian sandstones; a gabbro macro-dyke; a layered

picrite dyke.

[NG 5837 1863]

[NG 5826 1926]

[NG 5825 1885]

[NG 5847 1842]

[NG 5847 1842]

[NG 5837 1863]

[NG 5837 1863]

[NG 6027 1814]

[NG 6060 1821]

[NG 5963 1745]

[NG 5850 1628]

**Excursion Strath 5: [Strathaird](#)**

**Aspects covered:** Middle and Upper Jurassic sedimentary rocks; Paleocene plateau lavas; Paleocene basic and xenolithic ultrabasic dykes; late glacial (Pleistocene) to post-glacial (Holocene) landslips.

[NG 5158 1361]

[NG 5129 1254]

[NG 5129 1254]

[NG 5161 1371]

[NG 5170 1410]

[NG 5170 1477]

[NG 5164 1470]



[NG 5165 1467]

[NG 5183 1434]

[NG 5170 1477]

[NG 5172 1483]

[NG 5204 1548]

[NG 5206 1618]

[NG 5193 1655]

[NG 5279 1576]

[NG 5239 1533]

#### **Excursion Strath 6: [Creag Strollamus](#)**

**Aspects covered:** the Paleocene Broadford Gabbro; Cambro-Ordovician Durness Group dolostones; Torridonian sedimentary rocks; hydrothermally-altered Paleocene plateau lavas and conglomerates; granite and micro-granite of the Paleocene Eastern Red Hills Intrusive Centre; Upper Cretaceous flint-bearing limestones.

[NG 6008 2664]

[NG 6172 2612]

[NG 6127 2601]

[NG 6108 2557]

[NG 6096 2580]

[NG 6091 2590]

[NG 6069 2607]

[NG 6059 2598]

[NG 6045 2588]

[NG 6023 2599]

[NG 5964 2613]

#### **Excursion Strath 7: [Strollamus to Torrin](#)**

**Aspects covered:** Paleocene granites of the Eastern Red Hills Intrusive Centre; hydrothermally-altered Paleocene plateau lavas and conglomerates; Lower and Middle Jurassic sedimentary strata; Upper Cretaceous flint-bearing limestones; gneiss of the Lewisian Gneiss Complex; Cambro-Ordovician dolostones; a fault between Cambro-Ordovician and Jurassic strata

[NG 6030 2667]

[NG 6008 2664]

[NG 5936 2646]

[NG 5964 2613]

[NG 6023 2599]

[NG 5910 2589]

[NG 5911 2468]

[NG 5855 2417]

[NG 5757 2278]

[NG 5771 2132]

#### **Excursion Strath 8: [Kilchrist to Torrin via Loch Eishort](#)**

**Aspects covered:** folded, metamorphosed Cambro-Ordovician Durness Group dolostones (marble); Paleocene dolerite dykes intruded into Durness Group dolostones; the Paleocene Beinn an Dubhaich Granite of the Eastern Red Hills Intrusive Centre; contact skarns; abandoned marble quarries; views of the Cambrian Loch Eriboll Sandstone Formation 'quartzites' on Sleat; Applecross Formation ('Torrisonian') sandstones within the Kishorn Thrust Sheet; Triassic Stornoway Formation conglomerates; [abandoned village of Borerraig]; Lower Jurassic Ardnish Formation sandstones, siltstones, mudstones and limestones; Lower Jurassic Pabay Shale Formation strata; a Paleocene gabbro intrusion; [abandoned village of Suisnish]; a Paleocene layered picrite dyke; (Lower Jurassic sedimentary rocks); ?Triassic Camas Malag Formation lacustrine deposits (rhythmites); (the Beinn an Dubhaich Granite of the Eastern Red Hills Intrusive Centre); Holocene raised marine deposits; the Torrin marble quarry.

[NG 6167 2008]

[NG 6191 1977]

[NG 5850 1628]

[NG 5877 1796]

[NG 5847 1842]

[NG 5847 1842]

[NG 5837 1863]

[NG 5837 1863]

[NG 5825 1885]

[NG 5826 1926]

#### **Excursion Strath 9: [Kilchrist](#)**

**Aspects covered:** Paleocene volcanoclastic and pyroclastic deposits; the Kilchrist Ring-dyke (mixed-magma intrusion); a rhyolite breccia; a rhyolite sheet; ignimbrites; the Paleocene Beinn na Caillich Granite of the Eastern Red Hills Intrusive Centre (coarse- and fine-grained facies); Cambro-Ordovician Durness Group dolostones and Lower Jurassic shales in a fault contact

[NG 6156 2081]

[NG 6098 2061]

[NG 6084 2083]

[NG 6027 2126]

[NG 6022 2154]

[NG 6000 2088]

[NG 5957 2084]

[NG 5843 2177]

[NG 5771 2132]

**Excursion Strath 10: [Spar Cave, Iasnakille](#)**

**Aspects covered:** Carbonate encrustations on the vertical walls of geos and within Spar Cave; cross-bedded shallow marine sandstones of the Middle Jurassic Drùm an Fhuarain Sandstone Member of the Bearreraig Sandstone Formation; Paleocene dolerite dykes of the NW-SE - trending regional swarm.

[NG 5379 1288]

**SW Skye**

**Excursion SW Skye 1: The Allt Geodh a' Ghàmhna and the Allt Mòr [The Allt Geodh a' Ghàmhna and the Allt Mòr](#)**

**Aspects covered:** Paleocene basaltic-mugearitic plateau lavas; clastic terrestrial sedimentary sequences interbedded with the lavas; lateritised tops of lavas; dykes of the Paleocene regional swarm; a complex fault zone, with brecciated, sheared and veined basaltic rocks.

[NG 3697 1970]

[NG 3788 1920]

[NG 3692 1970]

**Excursion SW Skye 2: [Preshal More and Preshal Beg](#)**

**Aspects covered:** architecture and internal characteristics of Paleocene plateau lavas and interbedded sedimentary units; architecture, internal subdivisions and emplacement characteristics of a valley-filling ('intra-canyon') basaltic lava.

[NG 3324 3070]

[NG 3324 3070]

[NG 3347 3002]

[NG 3322 2983]

[NG 3309 2795]

[NG 3317 2762]

[NG 3317 2979]

[NG 3262 2795]

[NG 3295 2788]

[NG 3256 2826]

[NG 3238 2920]

### **Excursion SW Skye 3: [Talisker Bay](#)**

**Aspects covered:** Large-scale architecture of Paleocene basaltic-mugearitic plateau lavas; small-scale internal characteristics of the lavas; lateritised tops of lavas; folded bands/banding within a mugearite lava; dykes of the Paleocene regional swarm; fault zones, with brecciated, sheared and veined basaltic rocks.

[NG 3111 2997]

[NG 3125 3073]

[NG 3101 3087]

[NG 3016 3109]

[NG 3020 3157]

[NG 3734 3100]

[NG 3893 2843]

### **Excursion SW Skye 4: [Oronsay, Loch Bracadale](#)**

**Aspects covered:** various features of the Paleocene volcanic sequence.

[NG 3133 3597]

## **West Skye**

### **Excursion West Skye 1: [Neist Point and Oisgill Bay](#)**

**Aspects covered:** the Paleocene Neist Point Sill and the Biod Bàn Sill – Middle Jurassic strata — thermal alteration (formation of hornfels) by sills – Paleocene plateau lavas of the Ramasaig Formation – dykes of the Paleocene regional swarm - landslip in Moonen Bay

[NG 1375 4759]

[NG 1316 4758]

[NG 1268 4683]

[NG 1291 4747]

[NG 1301 4768]

[NG 1301 4768]

[NG 1319 4886]

### **Excursion West Skye 2: [Claigan Coral Beach](#)**

**Aspects covered:** the Claigan coral beach – the Lampay tombolo – Paleocene plateau lavas – Paleocene sills of the Little Minch Sill Complex – Paleocene dykes of the regional swarm – views of the lava field of Dunvegan head at the northern end of Duirinish.

[NG 2232 5497]

[NG 2234 5522]

**Excursion West Skye 3: [Idrigill Point and Macleod's Maidens](#)**

**Aspects covered:** Large-scale architecture of Paleocene basaltic-mugearitic plateau lavas; small-scale internal characteristics of the lavas; lateritised tops of lavas; dykes of the Paleocene regional swarm; fault zones.

[NG 2478 3630]

**Excursion West Skye 4: [Waternish](#)**

**Aspects covered:** Large-scale architecture of Paleocene basaltic-mugearitic plateau lavas; small-scale internal characteristics of the lavas; lateritised tops of lavas; dykes of the Paleocene regional swarm; fault zones.

[NG 2807 5123]

[NG 2249 6121]

[NG 2222 6126]

[NG 2331 6550]

**Excursion West Skye 5: [Dunvegan Head](#)**

**Aspects covered:** Large-scale architecture of Paleocene basaltic-mugearitic plateau lavas; small-scale internal characteristics of the lavas; lateritised tops of lavas; dykes of the Paleocene regional swarm; a major landslip.

[NG 1814 5473]

[NG 2054 4988]

[NG 1814 5473]

[NG 1800 5468]

[NG 1582 5494]

**Excursion West Skye 6: [Macleod's Tables, Duirinish](#)**

**Aspects covered:** Large-scale architecture of Paleocene basaltic-mugearitic plateau lavas; small-scale internal characteristics of the lavas; sedimentary units interbedded with the lavas

[NG 2315 4380]

**Excursion West Skye 7: [Ramasraig, Duirinish](#)**

**Aspects covered:** Large-scale architecture of Paleocene basaltic plateau lavas viewed in coastal cliffs (no access); small-scale internal characteristics of the lavas; lateritised tops of lavas.

[NG 1646 4913]

[NG 1597 4404]

[NG 1591 4408]

[NG 1582 4503]

## **North Skye**

### **Excursion North Skye 1: [Portree area](#)**

**Aspects covered:** Paleocene pyroclastic and volcanoclastic deposits; hyaloclastites; subaerial plateau lavas; pillowed lavas; Paleocene dolerite sills; Jurassic sedimentary rocks; Holocene landslips.

[NG 4923 4245]

[NG 4913 4250]

[NG 4933 4348]

[NG 5052 4469]

[NG 4973 4724]

[NG 5104 4749]

[NG 5149 4915]

### **Excursion North Skye 2: [Bearreraig Bay](#)**

**Aspects covered:** Middle Jurassic shallow marine sedimentary rocks of the Bearreraig Sandstone Formation; a Paleocene dolerite sill.

[NG 5185 5258]

[NG 5186 5245]

[NG 5166 5275]

[NG 5155 5254]

[NG 5151 5244]

[NG 5128 5239]

### **Excursion North Skye 3: [The Old Man of Storr and The Storr](#)**

**Aspects covered:** Paleocene lavas of the Beinn Edra Formation; Paleocene NW-SE -trending dykes of the regional swarm; landslipped material; moraines.

[NG 5009 5447]

[NG 5009 5447]

### **Excursion North Skye 4: [The Loch Cuithir diatomite deposits](#)**

[NG 4759 5962]

[NG 5161 6041]

[NG 5189 6048]

**Excursion North Skye 5: [Rubha nan Brathairean](#)**

**Aspects covered:** Middle Jurassic sedimentary rocks; Palaeocene dolerite sills.

[NG 5182 6252]

**Excursion North Skye 6: [The Kilt Rock and Valtos](#)**

**Aspects covered:** Paleocene olivine dolerite sills (including the Kilt Rock); the Middle Jurassic Valtos Sandstone Formation

[NG 5091 6554]

[NG 5115 6459]

[NG 5136 6428]

**Excursion North Skye 7: [Staffin Slipway](#)**

**Aspects covered:** Middle Jurassic Duntulm Formation strata (Great Estuarine Group); a Paleocene dolerite sill

[NG 4916 6849]

**Excursion North Skye 8: [Flodigarry to Staffin](#)**

**Aspects covered:** Upper Jurassic marine strata of the Staffin Bay and Staffin Shale formations; landslips; a section through a landslipped block of Paleocene lavas; historic exploitation of diatomite deposits

[NG 4673 7063]

**Excursion North Skye 9: [The Quiraing](#)**

**Aspects covered:** Quaternary-Holocene landslips; Paleocene lavas; Paleocene dykes of the regional swarm

[NG 450 692]

**Excursion North Skye 10: [Rubha Hunish](#)**

**Aspects covered:** Paleocene sills intruded into (thermally metamorphosed) Middle Jurassic strata; coastal features (rock pillars/stacks, sea arches, geos)

[NG 4125 7625]

[NG 4148 7614]

[NG 4111 7653]

[NG 4102 7688]

**Excursion North Skye 11: [Duntulm](#)**

**Aspects covered:** Middle Jurassic estuarine strata of the Duntulm Formation (Great Estuarine Group); a Paleocene layered picrodolerite sill with melted inclusions of country-rock (buchites)

[NG 4102 7394]

[NG 4107 7383]

[NG 4087 7425]

[NG 4087 7439]

[NG 4087 7439]

#### **Excursion North Skye 12: [Bornesketaig](#)**

**Aspects covered:** a Paleocene columnar-jointed picrite sill – a Paleocene banded ultrabasic dyke (the 'Mystery Dyke') – (weathered) olivine dolerite (sill) intruded into Middle Jurassic Kilmaluag Formation strata – raised beach deposits of the Loch Chaluum Chille area.

[NG 3774 7181]

[NG 3717 7152]

[NG 3725 7160]

[NG 4016 7167]

[NG 3892 6949]

[NG 3771 6887]

[NG 3768 6878]

#### **Excursion North Skye 13: [Fairy Glen](#)**

**Aspects covered:** Landslipped masses of basalt lava on the western margin of the Paleocene lava field.

[NG 416 628]

### **Sleat**

#### **Excursion Sleat 1: [Point of Sleat](#)**

**Aspects covered:** Folded low-grade regional metamorphic rocks of the Aruisg Psammite Group (Late Proterozoic Moine Supergroup) within the Tarskavaig Thrust Sheet; sedimentary features within these strata; Paleocene dykes of the Skye Regional Dyke Swarm; back-to-back storm beaches/tombolo.

[NM 5671 9999]

[NM 5669 9975]

[NM 5623 9907]

#### **Excursion Sleat 2: [Sithean Mòr, Tarskavaig](#)**

**Aspects covered:** Mylonites; sedimentary structures in psammities of the Late Proterozoic Moine Supergroup.

[NG 5980 0827]



[NG 5972 0779]

### Excursion Sleat 3: [Teangue](#)

**Aspects covered:** the Lewisian Gneiss Complex (granite gneiss; amphibolite; serpentinite); mylonites of the Moine Thrust; Late Proterozoic Torridonian sedimentary rocks (Beinn na Seamraig Group).

[NG 6716 0868]

[NG 6737 1041]

[NG 6796 0983]

[NG 6796 0983]

[NG 7092 1253]

[NG 7051 1177]

[NG 6976 1261]

[NG 7029 1249]

[NG 7074 1202]

[NG 6825 1276]

[NG 6831 1184]

[NG 6834 1271]

### Excursion Sleat 4: [Ord](#)

**Aspects covered:** Various Lower Palaeozoic and Late Proterozoic ('Torridonian') clastic and chemical (carbonate) sedimentary lithologies in complex thrust relationships; present-day coralline seaweed (maërl)

deposits

[NG 6179 1313]

[NG 6262 1263]

[NG 6216 1389]

[NG 6209 1384]

[NG 6174 1364]

[NG 6168 1311]

[NG 6154 1309]

### Excursion Sleat 5: [Glen Arroch](#)

**Aspects covered:** Soft-sediment deformation structures, possibly seismically-induced, within Late Proterozoic ('Torridonian') sandstones of the Beinn na Seamraig Formation of the Sleat Group

[NG 75274 20786]

#### **Excursion Sleat 6: [North Sleat](#)**

**Aspects covered:** cross-stratification, ripples and soft-sediment deformation structures within non-marine clastic strata of the Late Proterozoic ('Torridonian') sequence within the Kishorn Thrust Sheet of the Moine Thrust Zone; a major overturned fold within the trust sheet.

[NG 75274 20786]

[NG 76268 22247]

#### **Excursion Sleat 7: [Tokavaig](#)**

**Aspects covered:** Late Proterozoic ('Torridonian') strata of the Kinloch Formation (Sleat Group) forming a plunging synform within the Kishorn Thrust Sheet - Cambrian clastic strata of the Eriboll Sandstone Formation within the Ord Window - structural elements (folds, faults) of the Moine Thrust Zone.

[NG 614 114]

### **Raasay**

#### **Excursion Raasay 1: [Brochel & North Raasay](#)**

**Aspects covered:** Late Proterozoic ('Torridonian') strata of the Diabaig and Applecross formations; lithologies of the Lewisian Gneiss Complex; three outcrops of post-Torridonian (Triassic?) carbonate-cemented breccias.

[NG 5846 4627]

[NG 5830 4653]

[NG 5889 4725]

[NG 5802 4726]

[NG 5802 4726]

[NG 5907 4748]

[NG 5912 4775]

[NG 5994 4800]

[NG 5908 5039]

[NG 5912 5019]

[NG 5969 4978]

#### **Excursion Raasay 2: [Screapadal – Druim an Aonaich](#)**

**Aspects covered:** Late Proterozoic ('Torridonian') strata of the Brochel Member of the Diabaig Formation; Lower Jurassic Ardnish Formation strata adjacent to the Screapadal Fault; Middle Jurassic Druim an Fhuarain Sandstone Member of the Bearreraig Sandstone Formation; Holocene landslips.

[NG 5788 4612]

[NG 5847 4627]

[NG 5812 4560]

[NG 5815 4547]

[NG 5811 4533]

[NG 5797 4445]

[NG 5842 4390]

[NG 5837 4239]

[NG 5831 4350]

### **Excursion Raasay 3: [Dùn Caan](#)**

**Aspects covered:** a sill-like Paleocene granite; sandstone of the Middle Jurassic Druim an Fhuarain Sandstone Member; sandstone of the Upper Cretaceous Morvern Greensand Formation; Paleocene basaltic lavas; a spectacular panorama of Raasay, Skye and the Scottish mainland

[NG 5761 3924]

[NG 5791 3950]

### **Excursion Raasay 4: [The Raasay Ironstone Mine](#)**

**Aspects covered:** stratigraphic development and environment of formation of the Lower Jurassic Raasay Ironstone Formation; discovery of the ironstone; development of the opencast site and mine(s); end of the mining activity; field aspects of the Raasay Ironstone Formation; features of the mining activity.

[NG 55802 36237]

[NG 55999 35430]

### **Excursion Raasay 5: [South East Raasay](#)**

**Aspects covered:** Triassic (New Red Sandstone) Stornoway Formation terrestrial conglomerates, sandstones and calcretes; Breakish Formation marine sandstones with concretions, limestones and siltstones; Lower Jurassic Ardnish Formation marine sandstones and siltstones; Lower Jurassic Scalpay Sandstone Member marine sandstones; Middle Jurassic Druim an Fhuarain Sandstone Member shallow marine cross-bedded sandstones; Pabay Shale Formation marine shales and siltstones with concretions; the Hallaig and Beinn na Leac landslips; Devensian till.

[NG 5998 3823]

[NG 5996 3795]

[NG 5983 3813]

[NG 5962 3809]

[NG 5954 3818]

[NG 5964 3778]

[NG 5850 3619]

**Excursion Raasay 6: [South West Raasay](#)**

**Aspects covered:** The disused mining plant at the (now disused) pier at East Suisnish; strata of the Lower Jurassic Ardnish Formation and the Pabay Shale Formation; the Raasay Granite sill; the contact between the Raasay Granite sill and the Pabay Shale Formation; the raised beach at Clachan; the Paleocene picrite Oskaig Sill.

[NG 5548 3418]

[NG 5557 3441]

[NG 5538 3428]

[NG 5536 3460]

[NG 5536 3460]

[NG 5520 3506]

[NG 5469 3635]

[NG 5452 3814]