

## Areas of Geological Interest in County Donegal

Site Name	Townland(s) District	Description
Aghlem Bridge	Aghlem, Leghawny	Evaporites on the south east side of Lough Eske.
Ards Point	Creelough	This is the best and most completely exposed section through the Ards Transition Member.
Ardsbeg	Ards Beg / Falcarragh	A ductile thrust fully exposed and easy of access. Stratigraphy belongs to the Appin Group of the Dalradian Supergroup.
Ballycramsey	Drung (Ed Malin), Ballycramsy / Malin Head, Inishowen	Deformed schist which contains beach cobbles, indicating ice limits.
Ballymacstocker and Bay	Croaghross / Portsalon, Fanad Head, Lough Swilly	Non Dalradian clasts of possibly Devonian Age. Also beach and dune system.
Ballyness Bay	Falcarragh, Meenlaragh	Ballyness Bay is an estuarine inlet at Gortahork, at the mouth of Glenna River. It is almost completely drained at low tide, when sandy mudflats are exposed. Fold is also exposed in rocks to the south of the pier.
Ballyshannon	Knader / Ballyshannon	Small quarry with stratigraphical unconformity
Barnes Beg Gap	Barnes Upper	Contact zone - granite/Dalradian. Historically important site 1800's. Possible wollastonite mineral
Barnesmore Gap	Friarsbush, Tawnawully Mountains and West side of Belshade Lough	Secondary Uranium minerals, lateral moraines and other structures related to igneous intrusions

Bloody Foreland	Knockfola / Altnapeaste, Meenlagha, Bloody Foreland	Bloody Foreland presents numerous geological characteristics: chemical weathering on granite, a gravel beach from the Holocene period (10.000y) and series of moraines and boulders which record successive ice blocks.
Breesy Hill	Carricknahorna / Breesy Hill	Spectacular example of migmatised metabasite of the Sliswood Division
Brockagh (East of Creeslough)	Brockagh	Part of the Donegal granite contact zone showing intrusive relationships and a wide variety of rock types incorporated as xenoliths.
Bundoran Bay	Magheracar, Drumacrin, Finner / Bundoran	Abundant fossils in the Bundoran Shale formation (4km coastal stretch) and exposure of the top of Ballyshannon Limestone
Burnfoot Spread	Inch Level (Ed Burt, Ed Inch Island, Ed Fahan) / Burnfoot, Inch Level	A pristine example of a large bay fjord head delta complex sited on the eastern margin of Lough Swilly, covering about 4-5 Km <sup>2</sup> .
Carndonagh	Carndonagh / Inishowen	Fan and erosional meltwater channels linked to the ice withdrawal from the Ballycramsey ice limit in Trawbreaga bay. There is also an infiltration gallery on the raised beach north of Carndonagh.
Carrowtrasna	Carrowtrasna (Ed Gartan) (NE of Glenveagh National Park)	1.5m thick band of talc interbanded with mica schist and quartzite of the Loughros Formation/Upper Falcarragh Pelites.
Clogheracullion [U]	W of Kingarow / NE of Gubbin Hill, SW of Lough Muck, Fintown	"Main Radiometric Zone" in the Donegal granite with uraninite in bog.
Clooney	Cashelgolan / Clooney, Portnoo	The site comprises Ardara granite and represents the main outer contact and northern aureole

Corvish	North of Carndonagh	The site illustrates marine muds with glacial advances in between. The site is important as it provided age information
Croaghan Head, Fanad	Croaghan / Milford - Letterkenny	Port Askaig Tillite with sedimentary structures are well demonstrated.
Crohy [talc]	Crohy / Crohy Head (South of Maghery Bay)	The cliff face has shown steatite veins (talc) in Dalradian black schists. It was mined intermittently from late 19th - mid 20th Century.
Doagh Isle	Lagacurry	Argyll Group Dalradian rocks with exceptional preservation of tectonic features in Greenschist facies metamorphic rocks
Donegal Bay	Donegal	Cliffs, drowned drumlins, dunes, salt marshes
Doorin Point to Mountcharles	Raneely, Point, Tullinlagan, Rock, Drumaneary, Salthill Demesne, Hall Demesne / Doorin Point, Mountcharles	Low cliffs, platforms, erosion features
Dooros Point	Dunfanaghy	Falcarragh Pelite with structures
Dunagree Point		Rocky Ridges with pocket beaches of sand resulting from glaciation followed by submergence and the inwashing of sand from the sea floor.
Dunfanaghy	Dunfanaghy	A ductile thrust, fully exposed and very accessible. Sessiagh-Clonmass Formation pelites overlie Ards Quartzite (all Appin Group rocks of the Dalradian supergroup).
Dunlewy	Dunlewy	A granite contact zone occurs with a disused marble quarry. This has well-developed metamorphic minerals and deformational features and would be a good teaching resource site.

Dunmore Breccia Pipe	Portnoo	Appinite and breccia pipe
Edergole	Edergole	A unique site at the north end of Lough Eske presenting an alluvial fan in an extensional basin (Ivorian age: 353.8-349.5Ma)
Errigal Mountain	Gweedore	Physical weathering, mass wasting; fossil rock glaciers and talus foot debris complexes on mountain flanks down to 150m
Fahan Pier	Figary, Inishowen	Excellent teaching outcrop at which structure and deformation can be demonstrated in Fahan slates.
Fairies Bridge	Bundoran	Sea-arches exposed north of Aughrus Point, just north of Bundoran.
Falcarragh Flat		Flat area of coarse grained gravels related to a glacial efflux into standing water.
Fanad		Areal scouring landscapes
Fanad Granite & fanad Head	Fanad Head	Intrusion breccias and appinite. Also emerged beaches at Fanad Head (Ballyhiernan Bay). Many of the beaches of northwest Ireland are backed by machair, low-lying calcareous sand terrain similar to that of the Hebrides and western Scotland, but this is less common south of Clew Bay (Devoy).
Fintown [U: main radiometric zone]	Roadside exposure Clogheracullion to Lough Agarvy	Pitchblende vein at Croherle
Five Finger Strand	Culoort	Sand and gravel beach, sand cliffs, parabolic dunes
Glenaboghill [Zn, Pb]	[aka Fintown]	Veins in Dalradian calcareous schists, marble and quartzite. Mined in the early 1800s.
Glencrow Delta	Glencrow	Icd pushed delta complex
Glentogher [Pb, Ag, Au]	Inishowen, near Carndonagh	Stratabound mineralisation in quartzite (Galena contains silver, pyrite contains gold). Mined in the 19th Century.
Glinsk, NW Fanad	Carrownageeragh	Contact aureole
Gweedore Moraines		Moraines

Horn Head (Micky's hole)	Dunfanaghy	Site contains the best exposed example of a ductile thrust in the islands of Ireland and Britain – possibly also in Europe as a whole. Stratigraphically the rocks belong to the Appin Group of the Dalradian with (inverted) Ards Pelite over normally disposed Ards Quartzite.
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Inishfree Bay		Storm beaches, longshore drift
Inishowen Head		A bold headland on schists and quartzites, rising 136 m above sea level with long coastal slopes descending to rocky cliffs
Inishtrahull		Ireland's oldest rocks (Rhinns complex)
Inver Dyke/ Parkmore Dyke	Inver	Large xenoliths - windows into the upper mantle of the Earth
Keeldrum [Pb, Ba]	Gortahork	Old mine workings/buildings with two lode zones in Ards quartzite, mined in the 19th Century for Zinc and Lead
Kildoney Point	Kildowey Glebe	Interesting and clearly visible deltaic sedimentary structures in Upper Calp sandstones.
Kilkenny Breccia Pipe	Kilkenny, Gortnasillagh	An intrusive dyke exposed at the surface. Explosion breccia.
Kilrean	Kilrean	Minerals of the Ardara Appanite suite: asbestos; chrysotile.
Kiltyfannad Lough	Lougheraherk	This area represents one of the best exposed sections through the Port Askaig Tillite and forms the reference locality for Donegal, important for stratigraphy.
Kinnoge Bay (Armada Bay)	Kinnagoe	Beach and Dune System
Knader Lough		Precambrian metagabbro (c. 580Ma) with well preserved igneous texture
Knockalla		Devonian rocks against Leenan fault: non- Dalradian clasts

Knocknafolla (Bloody Foreland)	Knockfolla / Meenlagha, Bloody Foreland	Deep chemical weathering of rotted granite
Lackagh Bridge	On the road between Carrigart and Cresslough	Main Donegal Granite, also Granite/Dalradian contact
Lagh Hill	Culdaff	This site contains excellent examples of conglomerates within the Southern Highland Group. Important information on provenance.
Laghy Quarries	Laghy	Basal Ballyshannon Limestone
Largymore Coastal section	Killybegs	Trace fossils and other fossils (macro and microfauna)
Lough Boyle (formerly Ballykillowen Hill)	Meenacaragh	The site includes the contact zone (Lough Derg Slide) between the Lough Derg Inlier of the Sliswood Division to the South and Dalradian rocks
Lough Columbkille	Cashelard	Minerals: potash feldspar; perthite, actinolite
Lough Eske	Burns Mountain, Friary, Tawnyvorgal	Lower Carboniferous section
Lough Finn		Areally scoured landscape.
Lough Finn Lateral Moraine		Lateral moraines. Scientifically important because it records a late phase of ice sheet decay as the Donegal ice cap decayed.
Lough Greenan	Glen, Termor, Millford	Scheelite/tungsten mineralisation
Lough Keel	Gweedore	Fan
Lough Lareen	Doobally	Schist
Lough Nacung, Dunlewy	Gweedore	Paternoster lakes (Dunlewy Lough, Lough Nacung Upper and Lough Nacung Lower)
Lough Swilly		Long wide fjord
Loughros More Bay		Estuarine environment
Maghera Strand		Inwashed sandflat, sill, quartzites
Malin Bay/ Skelpoonagh Bay	Malin Beg, Malin More,	This area provides exceptional exposures through a fold system within the

	Glencolumbkille, Beefan	Dalradian supergroup.
Malin Flat	North of Malin	The Malin Flat records former higher postglacial sea levels and exhibits isolated fossil sea stacks and intervening swash gullies.
Malin Head	Malin Head, northern coast	Malin Head is a peninsula of quartzite and volcanic rocks that has been strongly glaciated.
Malin Head	Ardmalin	Raised beach deposits, cobbles, high energy wave climates
Melmore Rosguill/Lough	Carrigart	Melmore Migmatite
Mountcharles, Mountcharles Sandstone Mines, Mountcharles Sandstone quarry		Hand pump. Cream coloured dimension stone good for ornamental sculpture. Also Carboniferous Sandstone, with old stone mines and active extraction of stone in quarries.
Moville to Inishowen Head	Moville	The exposures of Southern Highland Group Dalradian rocks on the foreshore at Moville and for 2km to the NE provide exceptional preservation of sedimentary and tectonic features in low grade (Greenschist) metamorphic rocks. Valuable educational resource.
Muckish Mountain	Ballyboe Mountain	Disaggregated quartzite, of the Ards Quartzite Formation, has been quarried for glass sand. Also rock glaciers.
Muckros Head- Fintragh Bay	Largysillagh, Ballymoon	A coastal cliff and intertidal exposure of a wide range of rock types and sedimentary structures typical of many depositional environments are visible.
Mullagh Derg	Mullaghderg	Orbicular granite
Mulroy Bay	Carrowkeel, Millford	Fjord, salt marshes, intertidal mud
Naran Hill		Appinite
North margin of Donegal Bay		Drumlin landscapes.
Oughtdarnid		High-pressure metamorphism illustration
Owenator River	Gweedore	Boulder beds, fan, glacial mountain erosional inheritance
Poisoned Glen	Gweedore, Dunlewy Far	Meanders, glacial mountain erosional inheritance



Pollan Bay [Pb, Zn, Ba]		Mineralisation (lead, zinc, barium)
Pollet Great Arch	South of Fanad Head	Sea arch
Pollnalong, Rosguill	Derrycassan - Carrigart	Excellent, perfectly exposed, stratigraphic succession, some 300m thick, through upper part of Sessiagh – Clonmass Formation
Pollnapaste	Kincrum	Karst and cave
Quigley's Point	Carrowkeel	Alluvial gold
Quigley's Point (Lough Foyle)	Quigley's Point, Carrowkeel	There are several delta-like lobes at stream mouths along the coast, as at Quigley's Point
Rathlin O'Birne Island		Arch
River Finn		Paleo-terraces
Rosapenna & Rosapenna Peninsula	Rosapenna - Carrigart	Tombolo. The locality is also of crucial importance to Dalradian deformation history.
Rough Point Sill	Dunfanaghy	Metamorphic rock: metadolerite
Shalweg/Shalwy Moraine		Moraines on north margin of Donegal Bay.
Sheep Haven		Branched bay formed by glaciation, with quartzite rocky shores and sandy beaches. Also a site for research on actual and potential dune instability.
Sheshkinarone	Burtonport	Quartz-muscovite-beryl greisen zone in Rosses Granite. Outcrop near road damaged by blasting and irresponsible collecting of beryl.
Slieve League	Ballymore / Glencolumbkille	Quartzite megacliff, mass wasting and Carboniferous sandstone
Slievetooley		Slievetooley is mountainous cliffy coast (N facing cliff about 200 m), extending to the precipitous cliff of quartzite on Glen Head.
South Donegal	Numerous	Ribbed moraines
St John's Point, St. John's Peninsula, St. John's Point	Ballysaggart, Dunkineely, Point	The north coast is partly an escarpment cliff. The Point is cut in Lower Carboniferous Limestone and shows weathering features. A large wave moved

(McSwynes Bay to tip)		boulder may be the result of a tsunami. Also Ballyshannon formation, Limestone pavement and Tertiary dyke
Stralinchy	Stralinchy	Slieve Tooley Quartzite; Cranford Limestone
The Doon		Horseshoe-shaped bay and periglacial landscape features
The Pullauns	Brownhall Demense	Shallow developed river cave
The Rosses		Cnoc and Lochan landscape
Tory Island	Ardlarheen, West Town, East Town	Tory Island is granitic, with a quartzite tip at its eastern end. Tors.
Trabane, Malin Beg	Malin Beg	Glaciomarine sediments on NW coast, exposed in a stream cutting leading into the bay.
Trawbreaga Bay		Estuary formed by submergence of a lowland.
Tremone Bay	Culdaff	Port Askaig Tillite