Glossary

Acidic	Relating to igneous rocks containing over 63 per cent silica Hillside bench cut in solid rock and formed in periglacial
Altiplanation terrace	conditions by processes involving solifluction and mass movement
Argillaceous	Relating to sediment composed of clay sized particles
Autoclastic breccia	A rock formed by mechanical crushing in situ
	Fine-grained, dark coloured igneous rock, usually extrusive,
Basalt	composed mainly of plagioclase in the labradorite to
	bytownite range and pyroxene
Base metal	Common chemically active metal; for example, lead, copper,
	zinc
Basic	Relating to igneous rocks with less than 52 per cent of silica
Benthonic	Relating to bottom-dwelling marine life
	Sulphide of copper and iron $(Cu_5 FeS_4)$ with iridescent
Bornite	tarnish (Peacock Ore)
	Clay Glacial deposit consisting of unsorted boulders and
Boulder	pebbles in clay matrix. Synonymous with till
	Solitary marine invertebrate characterised by having two
Brachiopod	symmetrical but dissimilar shells or valves
	A coarse-grained elastic rock composed of angular rock
Breccia	fragments
Breccia pipe	Roughly cylindrical body of intrusive breccia
Caladanian aragany	Name used for the orogenic belt (the Caledonides)
Caledonian orogeny	stretching from Ireland through Britain to Scandinavia. Dated
	as end-Silurian but also used to include earlier pulses
Chalcopyrite	Bright brass-yellow ore mineral of copper (CuFeS ₂)
Chronostratigraphy	Branch of stratigraphy which relates strata to time
	Fissile structure in a rock produced by deformation or
Cleavage	metamorphism which enables it to split into thin laminae
	along secondary aligned fractures
Comagmatic	Related to igneous rocks interpreted as having been derived
	from a common parent-magma
	Sedimentary rock deposited from a contour-following bottom
Contourite	current. Usually recognised as a layer of relatively
	coarse-grained sediment in marine muds or silts
Dolerite	Medium-grained, igneous intrusive rock of similar
Dolente	composition to basalt
	Low, oval hill or ridge of glacial till built under the margin of
Drumlin	the ice and shaped by its flow so that the longer axis is
	parallel with the direction of movement of the ice
Epiclastic	Related to a rock formed by the breakdown and
	consolidation of preexisting rocks
Fluvioglacial	Related to the deposits produced by meltwater streams
	flowing from a glacier
Fold	Bend of a planar structure in rocks, for example, bedding
	planes or cleavage
Fold axis	Line on a map which traces the crest or trough of a fold
Galena	Bluish grey ore mineral of lead (PbS)

Geosyncline	Large-scale downwarp in the surface of the earth in which thousands of metres of sedimentary and volcanic rocks accumulate
Graptolites	Extinct group of colonial marine animals with a corneous skeleton. In <i>Dictyonema</i> the colony formed a conical net
Greenschist facies	Low grade regional metamorphism corresponding to a temperature range of 300 to 500°C An impure sandstone with more than 15 per cent interstitial
Greywacke	matrix consisting of mica, chlorite and quartz. Grains include quartz, feldspar and lithic rock fragments
Head	Deposit consisting of locally derived unsorted material formed by solifluction usually under periglacial conditions Break in continuity of the stratigraphic record either by
Hiatus	erosion or non-deposition, and the time-value associated with this period
Hyaloclastite	A deposit formed by the rapid chilling of a lava or magma where it flows into water or saturated sediment causing it to shatter into small angular fragments
Hydrothermal alteration	The alteration of rocks or minerals by the action of hot water circulating underground
Hyolithid	Extinct group of molluscs with a narrowly conical lidded shell
Intermediate	Relating to igneous rocks containing 52 to 63 per cent silica
Intrusive breccia	Heterogeneous mixture of angular fragments which has been mobilised and intruded into its present position
	Fragments between 2 and 64 mm in diameter ejected by a
Lapilli	volcanic eruption
	Autoclastic breccia produced by the fragmentation of the
Lava breccia	upper and lower crusts of a lava during now
Lithostratigraphy	That part of stratigraphy which deals with the nature and
Eurositaligraphy	composition of strata
Load cast	A sole mark or depression on the base of a bed caused by
	unequal settling and compaction of the overlying material
Magnetite	Ore mineral of iron (Fe304) Deposit formed by mass-movement of soil and rock debris
Mass-flow deposits (mud flow)	down a slope. May be triggered by earthquake or by
	oversaturation
	Dislodgement and downslope movement of soil and rock
Mass wasting	material under gravity. Includes processes such as
	solifluction, rock slides, soil creep and mass-flow
	Medium-grained intermediate igneous rock consisting of
Microdiorite	plagioclase in the oligoclase to andesine range. Other minerals may include augite, hornblende, biotite,
	hypersthene. Primary quartz is normally less than 5 per cent
Micrograpita	Medium-grained acid igneous rock containing quartz and foldener with some dark minerals which may include
Microgranite	feldspar with some dark minerals which may include hornblende and biotite
	Medium-grained intermediate igneous rock of similar
Microtonalite	composition to microdiorite but containing more than 10 per
	cent primary quartz
Molybdenite	Lead-grey flaky molybdenum mineral (MoS ₂)
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Moraine	Debris eroded and redeposited by a glacier consisting of unsorted unstratified till. Lateral and terminal moraines are the deposits at the side and end of a glacier respectively
Oolith	Round or oval accretionary particle in a sedimentary rock (0.25 to 2 mm in diameter)
Orogeny	Process of formation of mountains
Pericline	A fold in the form of a dome or basin
Deriglopial	Relating to the conditions and processes existing around the
Periglacial	margins of a glacier or ice-sheet
Phenocryst	Large conspicuous crystal in a porphyritic rock
Porphyry	An igneous rock of any composition containing phenocrysts
	in a fine-grained groundmass
	An ore deposit composed of a large body of rock containing
Porphyry copper	small quantities of disseminated chalcopyrite and other
Durito	sulphide mineral
Pyrite Pyrrhotite	Brass-yellow ore of iron known as 'fools gold' (FeS ₂) Silver-yellow magnetic form of iron sulphide
Quartz-microdiorite	A form of microdiorite with between 5 and 10 per cent quartz
	Impure sandstone containing more than 15 per cent detrital
	matrix (sericite and chlorite). Grains are mainly of quartz with
Quartz wacke	less than 10 per cent feldspar and less than 10 per cent of
	rock fragments
Rhodochrosite	Pink or reddish ore of manganese (MnCO ₃)
Solifluction	Downslope flow of waterlogged soil and other unsorted
Soundenor	material
Spessartine	Red-brown to yellowish manganese aluminium silicate
	(variety of garnet)
Sphalerite	Yellowish brown to dark brown zinc ore (ZnS)
	Sandstone with little detrital matrix (less than about 15 per
Subarkose	cent) with grains predominantly of feldspar with less
	abundant lithic clasts and quartz Sandstone with little detrital matrix (as in subarkose). Grains
Subgreywacke	consist of quartz, rock fragments and feldspar. The
	proportion of rock fragments exceeds that of feldspar
	Process whereby one part of the earth's crust descends
Subduction	beneath another
Subveleenie	Relating to intrusions and other phenomena in the basement
Subvolcanic	beneath a volcano
Till	Synonymous with boulder clay
	An extinct group of marine anthropods (class Trilobita) in
Trilobite	which the exoskeleton was divided longitudinally into three
- <i>"</i>	lobes (Figure 20)
Tuff	A rock formed by the consolidation of volcanic ash
Tuffite	A mixed rock consisting of >25 per cent pyroclastic and >25
	per cent epiclastic or detrital material The consolidated deposit of a turbidity current. These rocks
	are characterised by graded bedding, moderate sorting and
Turbidite	well developed sequence of bedding structures (Bouma
	cycle)
Xenolith	A foreign inclusion in an igneous rock
References	