Chrono-lithostratigraphic Legend for Antarctic Surface Geology

Topographic features

- seasonal water
- ice
- ? outcrop of unknown rock type

Rocks of unassigned age

- ? sedimentary rocks
- ? volcanic rocks
- ? metamorphic rocks

SEDIMENTARY ROCKS

unconsolidated sediments (c), mudstone, siltstone, sandstone, conglomerate (s), limestone (l), volcanogenic sediments (j), mixed sediments and volcanic rocks (w),

IGNEOUS ROCKS

Volcanic rocks

- **Felsic** (f)
- **Intermediate** (a)
- **Mafic to ultramafic** (b)
- **Felsic to mafic** (v)

Intrusive rocks

- **Felsic** (g)
- **Intermediate** (h)
- **Mafic** (d)
- **Mafic to ultramafic** (u)

mixed intrusives (i)

METAMORPHIC ROCKS

- **Low-medium grade** (p)
  - metacarbonate (m)
  - siliciclastic (y)
  - hornfels (o)
  - volcanic rocks (t)
  - felsic to intermediate intrusive rocks (r)
  - mafic to ultramafic intrusive rocks (e)
- **High-grade**
  - metamorphics (n)
  - quartzite (q)
  - complexes (x)
- **Fault/shear rocks**
  - tectonics (z)

		Sedimentary	Volcanic: Felsic (f)	Volcanic: Intermediate (a)	Volcanic: Mafic to ultramafic (b)	Volcanic: Felsic to mafic (v)	Intrusive: Felsic (g)	Intrusive: Intermediate (h)	Intrusive: Mafic (d)	Intrusive: Mafic to ultramafic (u)	Low-medium grade (p)	High-grade	Fault/shear
Anthropocene													
Holocene (H)		Hc											
Quaternary (Q)	CENOZOIC (Cz)	Qc Qw	Czf	Cza	Qb Czb	Czv	Czg		Czd				
Neogene (G)	CENOZOIC (Cz)	Gj Czc						Ph					
Paleogene (P)	CENOZOIC (Cz)	Ps Czw					Pg		Pd				
Cretaceous (K)	MESOZOIC (Mz)	Ks Kj Kw KPs	Kf KPf	Ka	KPb	KCzv	Kg	Kh	Kd	Ku		Kn Kx	
Jurassic (J)	MESOZOIC (Mz)	Js JKs Jj JKj Jw JKw			Jb	Jv	Jg JKg Ji JCzi JCzg	Jh JCzh JKh	Jd JCzd JKd	Ju JCzu	Jt JKp JKo		
Triassic (T)	MESOZOIC (Mz)	Ts TJs					TJg				Mzp MzGp	Tn	Mz
Permian (Y)	PALEOZOIC (Pz)	Ys YTs					Yg	Yh				Yx YJx Yn YTx YTn	
Carboniferous (C)	PALEOZOIC (Pz)	CYs CTs					CYg				CTp	Cn	
Devonian (D)	PALEOZOIC (Pz)	Ds DTs DJw	Df			Dv	Dg DCg					Dn Dq	
Silurian (S)	PALEOZOIC (Pz)						SDg						
Ordovician (O)	PALEOZOIC (Pz)	ODs					Og						
Cambrian (E)	PALEOZOIC (Pz)	Es El Ej Ew EOs	Ef		Eb	EOv	Eg EOg EOi	EOh	Ed EOd		Ep EOp Et EOt Ey EDy Em EOy	En EOn EOx	
Neoproterozoic (N)	PROTEROZOIC (Rz)	Ns Nw NEs			Nb	NEv	Ng NEg NOg	NEh	Nd NEd		Np Nm NEp NEm NEe	Nn NEn NOn	
Mesoproterozoic (M)	PROTEROZOIC (Rz)	Ms Mw		Ma		Mv	Mg Mi	Mh	Md		Mp Mt Mm Me	Mn Mx MNn MNx	Mz
Paleoproterozoic (L)	PROTEROZOIC (Rz)						Lg LMg	Lh		Lu	Lp Ly Le	Ln LMn	
ARCHEAN (A)							Ag ALg				Am ALe	An Ax ALn ALq ARzx ALx	

PzTs — Pzg — Pzd — Pzp — Pzn PzGn PzTn Pzq — Rzg RzEg — Rzh — Rzd — Rzp — Rzn Rzx RzEn — RzO?

Note: Geological units which span multiple time periods have symbols showing the oldest and youngest time periods. e.g. Cambrian to Ordovician sedimentary rocks = EOs; Paleoproterozoic to Mesoproterozoic high grade metamorphics = LMn