DARWIN
PERTH
ADELAIDE
BRISBANE
SYDNEY
CANBERRA
MELBOURNE
HOBART

CENOZOIC UNITS (mainly unconsolidated deposits)

Quaternary

- Q — *Quaternary sediments, undivided*
- Qa — *Channel and flood plain alluvium; gravel, sand, silt, clay*
- Qb — *Volcanic rocks, predominantly mafic*
- Qd — *Dunes, sand plain with dunes*
- Qdc — *Coastal dunes, beach ridge, barrier beach, foredune and shoreface sands*
- Qe — *Estuarine, tidal delta deposits; coastal mud flats*
- Qi — *Carbonate sediments*
- Qk — *Calcrete*
- Qrc — *Colluvium and/or residual deposits; boulder, gravel, sand*
- Qrlb — *Black soil plains*
- Qsg — *Glacial sediments, moraine*
- Qsm — *Anthropogenic deposits; mining waste, salt pans*
- Qt — *Lake and swamp deposits; mud, silt, evaporites, limestone, minor sand*
- Qv — *Volcanics, undivided*

Cenozoic

- Czu — *Cenozoic sediments, undivided*
- Cza — *Alluvial deposits; typically incised by current drainage*
- Czb — *Volcanic rocks, predominantly mafic*
- Czc — *Consolidated siliclastic rocks*
- Cze — *Estuarine and delta deposits*
- Czf — *Felsic to intermediate volcanic rocks*
- Czg — *Felsic intrusive rocks*
- Czi — *Carbonate sediments*
- Czk — *Calcrete*
- Czl — *Laterite, ferruginous duricrust*
- Czq — *Spring deposits*
- Czs — *Sand plain*
- Czt — *Lake and swamp deposits*
- Czx — *Bauxite*
- Czz — *Silcrete*

- State Border
- Coast Line
- Fault
- Fault, concealed
- Shear zone
- Shear zone, concealed
- Capital city

SEDIMENTARY ROCKS AND LOW-GRADE METAMORPHIC ROCKS

mudstone, siltstone, sandstone, conglomerate (s), limestone (l), coal measures (o), volcanogenic sediments (j), mixed sediments and volcanic rocks (w)

IGNEOUS ROCKS

Volcanic rocks

	Felsic (r = metamorphosed)	Intermediate	Mafic to ultramafic (t = metamorphosed)	Felsic to mafic
Cretaceous	Kf	Ka	Kb	
Jurassic	Jf	Ja	Jb	
Triassic	-Rf	-Ra	-Rb	-Rv
Permian	Pf	Pa	Pb	Pv
Carboniferous	Cf	Ca	Cb	Cv
Devonian	Df	Da	Db	Dv
Silurian	Sf		Sb	
Ordovician	Of	Oa	Ob	
Cambrian	-Cf		-Cb	
Neoproterozoic	Nf	Na	Nb	
Mesoproterozoic	Mf	Ma	Mb	Mv
Palaeoproterozoic	Lf	La	Lb	
Archean	Af	Aa	Ab	Av

Intrusive rocks

	Felsic	Mafic (d) (t = metamorphosed)	Mafic to ultramafic (u) (e = metamorphosed)
Cretaceous	Kg	Kd	
Jurassic	Jg	Jd	
Triassic	-Rg	-Rd	
Permian	Pg	Pd	Pu
Carboniferous	Cg	Cd	
Devonian	Dg	Dd	
Silurian	Sg	Sd	Su
Ordovician	Og	Od	Ou
Cambrian	-Cg	-Cd	-Cu
Neoproterozoic	Ng	Nd	Nu
Mesoproterozoic	Mg	Md	Mu
Palaeoproterozoic	Lg	Ld	Lu
Archean	Ag	Ad	Au

METAMORPHIC ROCKS

	Low-medium grade (m = metacarbonate) (y = siliciclastic)	High-grade metamorphics and Complexes (n,x)	Fault/shear rocks
Cretaceous			
Jurassic			
Triassic			
Permian		Cn	Cz
Carboniferous		Dn	
Devonian			
Silurian	Sy		
Ordovician	Oy		
Cambrian	-Cy	-Cn	-Cz
Neoproterozoic	Ny	Nn	Nz
Mesoproterozoic	My	Mn	
Palaeoproterozoic	Ly	Ln	Lz
Archean	Ay	An	Az

	Mesozoic	Paleozoic	Proterozoic	Archean
Volcanic rocks	Mza	Pzv	-Pv	
Intrusive rocks	Mzg	Pzg	-Pg	Ag
Intrusive rocks	Mzd	Pzd	-Pd	Ad
Intrusive rocks		Pzu	-Pu	Au
Low-medium grade		Pzy	-Py	Ay
High-grade metamorphics and Complexes		Pzn	-Pn	An
Fault/shear rocks	Mzb	Pzz	-Pz	Az

Surface Geology of Australia

1:1 million scale digital geology data printed at 1:5 million scale

Australian Government
Geoscience Australia

Projection: Lambert Conic Conformal
Datum: GDA94
Central Meridian: 134°E, Standard Parallels: 18°S and 36°S

Scale 1:5,000,000

0 500 1,000 Km

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