




 Tasmanian Government
 Department of State Growth
 MINERAL RESOURCES TASMANIA

GEOLOGY OF TASMANIA

SCALE 1:500 000

Grid: GDM4 - MGA Zone 55

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Reference this map as:
 Brown et al. 2024
 Geology of Tasmania, Edition 2024.1
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 Mineral Resources Tasmania.

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LEGEND

PERIOD	UNIT	DESCRIPTION	
CENOZOIC	QUATERNARY	Qh	Sand, gravel, and mud of alluvial, lacustrine and fluvial origin (Qh).
		Qgl	Glacial and interglacial deposits (Qgl). Talus (Qgl).
		Qd	Predominantly glacial deposits (Qd).
		Qc	Coastal sand and gravel (Qc).
		Ql	Limestone (Ql).
	TERTIARY	T1	Non-marine sequences of sand, gravel, silt, clay and pebbles (T1); basalt (mollic to alkali) and related igneous rocks (T1); marine limestone (T1).
		T2	Basalt (T2).
		T3	Erosional surface.
		T4	Erosional surface.
		T5	Erosional surface.
MESOZOIC	TRIASSIC	Tr1	Fluvio-lacustrine sequences of sandstone, siltstone and mudstone (Tr1). Coal measures (Tr1).
		Tr2	Dominantly siliceous sandstone with felsic volcanics (Tr2).
		Tr3	Dominantly quartz sandstone (Tr3).
		Tr4	Fragmantar sandstone with coal measures (Tr4).
		Tr5	Upper glauconitic sequences of pebbly mudstone, pebbly sandstone and limestone (Tr5).
	PERMIAN	P1	Fragmantar and gneiss sandstone and mudstone with some coal measures (P1).
		P2	Lower glauconitic sequences of mudstone, pebbly sandstone, pebbly sandstone, minor limestone and limestone of shale (P2).
		P3	Erosional surface.
		P4	Terrigenous carbon-clay deposits (Dc; Eugenia beds).
		P5	Angular unconformity.
PALEOZOIC	DEVONIAN	SD1	Siltstone, shale and fine-grained sandstone and minor limestone (SD1).
		SD2	Shallow marine quartz sandstone (SD2).
		SD3	Siltstone, shale and minor quartz sandstone (SD3).
		SD4	Shallow marine quartz sandstone (SD4).
		SD5	Shallow marine limestone. Siltstone in some areas (Devon Group) (SD5).
	SILURIAN	SL1	Dominantly siliceous conglomerate and sandstone (SL1).
		SL2	Marine sandstone, siltstone and conglomerate (SL2).
		SL3	Siltstone conglomerate and sandstone (SL3).
		SL4	Angular unconformity in some areas, apparent conformity in others.
		SL5	Angular unconformity in some areas, apparent conformity in others.
NEOZOIC	CARBONIFEROUS	CC1	Dominantly felsic volcanics (CC1) with some felsic lava (CC1) (Fynbos Group and composites).
		CC2	Dominantly andesitic volcanics and intrusives (CC2).
		CC3	Sedimentary sequences, with minor volcanics in places (CC3).
		CC4	Basaltic to andesitic volcanics, schistose in part (CC4).
		CC5	Felsic volcanoclastic sequences with minor lava (CC5).
	PENINSULAR	PC1	Felsic to intermediate calc-alkaline volcanics (PC1).
		PC2	Siliceous sandstone and conglomerate (PC2).
		PC3	Angular unconformity in some areas, apparent conformity in others.
		PC4	Ultramafic and basaltic sequences (PC4).
		PC5	Turbiditic mafic volcanics, red mudstone and chert (PC5) (Luna Group and composites).
MESOZOIC	CRETACEOUS	Cr1	Quartz siltstone and shale (Cr1).
		Cr2	Shallow marine dolomite and limestone (Cr2).
		Cr3	Dolomite, oolite and mudstone (Cr3).
		Cr4	Turbiditic, mafic-volcanic sandstone and mudstone (Cr4).
		Cr5	Shallow marine dolomite (Cr5).
	TRIASSIC	Tr1	Shallow marine dolomite, chert, shale and limestone (Tr1).
		Tr2	Sandstone and conglomerate (Tr2).
		Tr3	Low-angle unconformity.
		Tr4	Quartzite, siltstone, dolomite, conglomerate and black slate (Tr4).
		Tr5	Quartzite, siltstone, dolomite, conglomerate and black slate (Tr5).
MESOZOIC	TRIASSIC	Tr1	Siltstone, mudstone, slate and phyllite (Tr1).
		Tr2	Siltstone and dolomite (Tr2).
		Tr3	Orthoquartzite (Tr3).
		Tr4	Quartz-rich siltstone, conglomerate and black slate (Tr4).
		Tr5	Quartz-rich siltstone, conglomerate and black slate (Tr5).
	DEVONIAN	D1	Lampyrite (at Vane Bay) (D1).
		D2	Dolomite dykes (D2).
		D3	Unfossiliferous granitic rocks (D3).
		D4	Dominantly orthoquartzite, gneiss, schistose quartzite, schist, phyllite and minor amphibolite (D4).
		D5	Dominantly orthoquartzite, gneiss, schistose quartzite, schist, phyllite and minor amphibolite (D5).
MESOZOIC	TRIASSIC	T1	Basalt (mollic to alkali) and related volcanoclastic rocks (T1).
		T2	Schistose to felsic lava, dykes and porphyry (T2).
		T3	Basaltic to andesitic volcanics, schistose in part (T3).
		T4	Basaltic to andesitic volcanics, schistose in part (T4).
		T5	Dominantly andesitic volcanics (T5).
	PALEOZOIC	P1	Felsic to intermediate calc-alkaline volcanics (P1).
		P2	Quartz-feldspar porphyry (P2).
		P3	Granite (P3).
		P4	Gabbroic rocks (P4).
		P5	Tholeiitic basalt (P5).
MESOZOIC	TRIASSIC	T1	Tholeiitic dolerite (T1).
		T2	Granitic rocks (T2).
		T3	Tholeiitic dolerite dykes (T3).
		T4	Alkali basalt and dolerite (T4).
		T5	Amphibolite (T5).
	PALEOZOIC	P1	Tholeiitic basalt (P1).
		P2	Granitic rocks (P2).
		P3	Tholeiitic dolerite dykes (P3).
		P4	Alkali basalt and dolerite (P4).
		P5	Amphibolite (P5).

NORTHEAST TASMANIA

SD1	Felsic volcanoclastic rocks (SD1).
SD2	Angular unconformity.
SD3	Turbiditic sandstone and siltstone (SD3).
SD4	Turbiditic sandstone and siltstone with some sandstone (SD4).
SD5	Turbiditic sandstone and siltstone and mudstone (SD5).
SD6	Faulted contacts.
OH	Phyllite slate and sandstone (OH).
OS	Turbiditic sandstone and slate (OS).

ARTHUR METAMORPHIC COMPLEX

Am	Chloritic schist, with minor dolomite and muscovite (Am).
Am1	Amphibolite (Am1).
Am2	Dominantly phyllite (Am2).

TYNNAN AND SIMILAR REGIONS

T1	Dominantly quartzite sequence (T1).
T2	Phyllite or schistose micaceous quartzite (T2).
T3	Game-bearing quartzite (T3).
T4	Dominantly gneissiferous dolerite pebbly rock, mainly phyllite (T4).
T5	Phyllite schist (T5).
T6	Game-bearing phyllite schist (T6).
T7	Dolomite (T7).
T8	Schistose conglomerate (T8).

IGNEOUS ROCKS

Th	Tholeiitic dolerite (Th).
Gr	Felsic lavas of Tynnan Group (Gr).
Ca	Basaltic to andesitic volcanics, schistose in part (Ca).
Ca1	Dominantly andesitic volcanics (Ca1).
Ca2	Felsic to intermediate calc-alkaline volcanics (Ca2).
Ca3	Quartz-feldspar porphyry (Ca3).
Gr	Granite (Gr).
G	Gabbroic rocks (G).
Cu	Ultramafic and basaltic sequences (Cu).
Cb	Tholeiitic basalt (Cb).
Tb	Tholeiitic basalt (Tb).
Gr	Granitic rocks (Gr).
Th	Tholeiitic dolerite dykes (Th).
Ab	Alkali basalt and dolerite (Ab).
Am	Amphibolite (Am).

NEOZOIC

Ge	Geological contact.
Li	Limit of mapping of sub-unit within an interformational rock unit.
F	Fault.
C	Concealed fault.