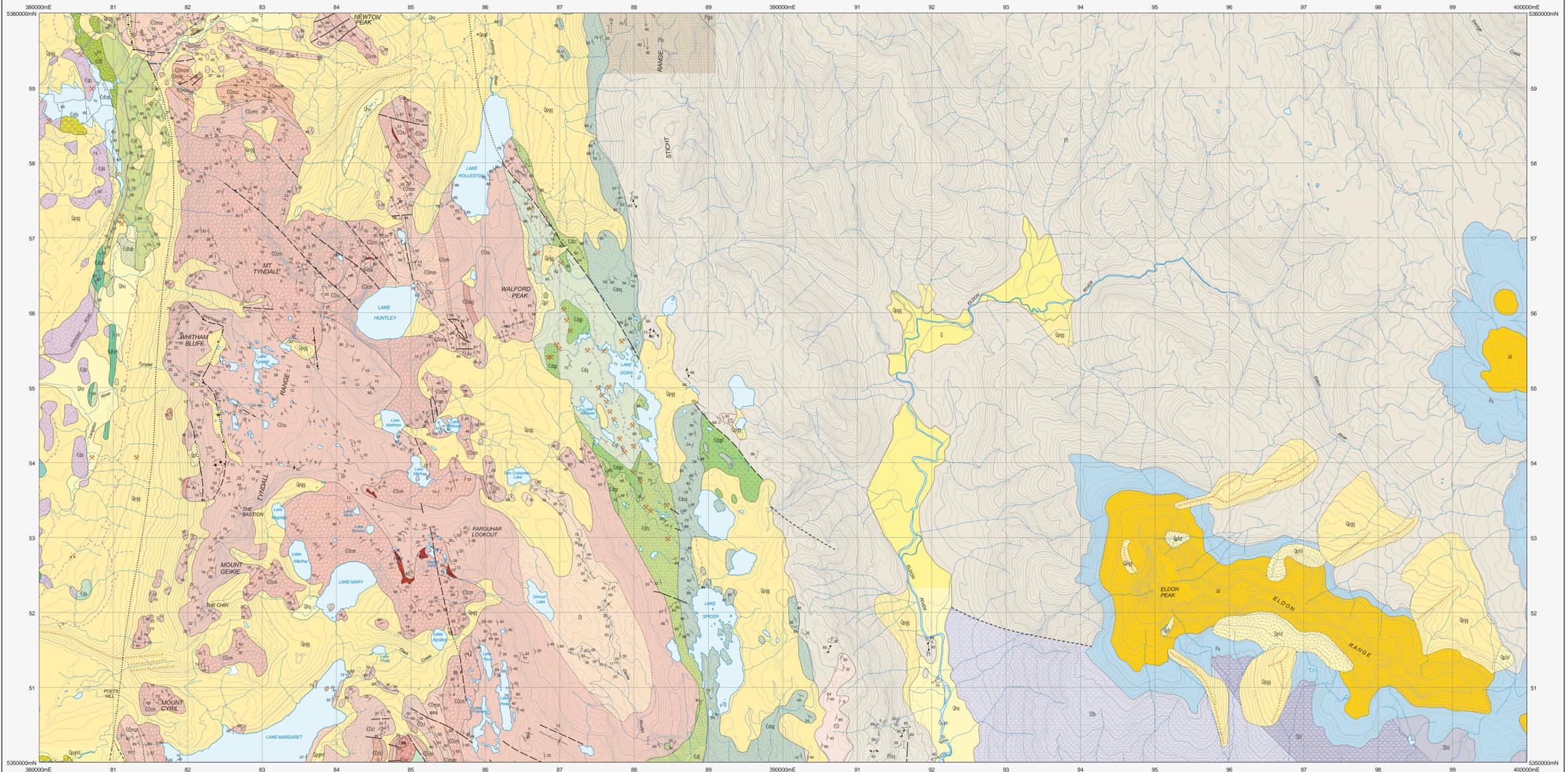


TYNDALL

Scale: 1:25 000



PERIOD	GROUP	UNIT	SYMBOL	DESCRIPTION		
					AGE	
QUATERNARY	HOLOCENE	Qha	Aluvium, swamp and marsh deposits (Qha).			
		Qp1	Talus and scree deposits (Qp1). Talus derived from dolerite (Qp1d).			
		Qp2	Glacial deposits, usually bouldery (Qp2), including local occurrence of dolerite derived erratics at 58089mE, 53597mN (Qp2d).			
		Qp3	Mainly ill deposits - unweathered or slightly weathered (Qp3m). Deposits of Margate Glaciation (15000 - 100000 yrs).			
		PERMIAN	UNDIFFERENTIATED SEDIMENTARY ROCKS (Pu)	Pu	Undifferentiated sedimentary rocks (Pu).	
				SDa	Mudstone, siltstone, minor fine-grained sandstone and rare limestone (correlate of the Formation) (SDa).	
				SDb	Fine-grained quartz sandstone with minor siltstone and mudstone (correlate of the Formation) (SDb).	
				SDc	Mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of the Formation) (SDc).	
				SDd	Mainly mudstone and siltstone with minor sandstone and rare limestone (correlate of the Formation) (SDd).	
		TRIASSIC	LIMESTONE WITH MINOR SILTSTONE AND SANDSTONE (L)	L	Limestone with minor siltstone and sandstone (L).	
OWEN GROUP	COsu			Upper unit of mostly pink sandstone and granite-pebble conglomerate with subordinate siltstone. Clasts of chert common. Upper Owen Sandstone and correlative (COsu).		
	COsu2			Units of grey sandstone, siltstone and conglomerate (COsu2).		
COsu3	Units of coarse pebble-conglomerate (COsu3).					
COsu4	Bedded hematite and hematitic sandstone, developed as basal facies on erosion surfaces in some areas (COsu4).					
COsu5	Pebble-cobble to cobble-boulder conglomerate, thick-bedded to massive, with minor sandstone lenses. Middle Owen Conglomerate and correlative (COsu5).					
COsu6	Unit of interbedded conglomerate and sandstone (COsu6).					
COsu7	Mainly thin-bedded pink sandstone and pebbly sandstone with bands of pebble conglomerate, minor siltstone (correlate of Middle Owen Sandstone) (COsu7).					
COsu8	Interbedded micaceous sandstone, siltstone and siliclastic pebble conglomerate, mostly grey in colour. Marine facies in places. Newton Creek Sandstone and correlative (COsu8).					
COsu9	Dominantly siltstone and shale (COsu9).					
CAMBRIAN	MOUNT READ VOLCANIC COMPLEX	COsa	Impure limestone and calcareous sandstone (COsa).			
		COsb	Unit of pebble conglomerate (COsb).			
		COsc	Pebble-cobble to cobble-boulder conglomerate, generally thick-bedded to massive with minor sandstone lenses, white to pink in colour. Lower Owen Conglomerate and correlative (COsc).			
		COsd	Unit of pink sandstone and pebbly sandstone (COsd).			
		COse	Thick-bedded to massive cobble-boulder conglomerate units. Erosional unconformity at base in some areas (COse).			
		COsf	Volcaniclastic conglomerate, breccia and sandstone, usually at base of sequence, includes correlative of Lake Conglomerate (COsf).			
		MESOPROTEROZOIC	SERIES CAMBRIAN	Edta	Interbedded volcaniclastic and volcanic rocks, typically quartz-feldspar-phryic (Edta).	
				Edtb	Dominantly volcaniclastic conglomerate and sandstone (Edtb).	
				Edtc	Felsic lava, usually quartz-feldspar-phryic (Edtc).	
				Edtd	Siltstone-shale units (Edtd).	
Edte	Andesitic breccia and volcaniclastic sandstone (Edte).					
Edtf	Andesitic lava, breccia and related intrusive rocks (Edtf).					
Edtg	Crystal-rich (quartz-feldspar) buffaceous sandstone (Yalande River Sequence) (Edtg).					
Edth	Interbedded volcanic and volcaniclastic rocks and intrusive porphyries, typically quartz-feldspar-phryic (Edth).					
Edti	Felsic porphyry, typically quartz-feldspar-phryic, includes extrusive and intrusive bodies (Edti).					
Edtj	Siliclastic conglomerate and sandstone with interbedded micaceous siltstone and minor volcaniclastic rocks (Sticht Range Beds) (Edtj).					
PALAEOZOIC	MOUNT READ VOLCANICS	Edk	Dominantly feldspar-phryic volcanic and volcaniclastic rocks (Edk).			
		Edl	Andesitic lava, breccia and related intrusive rocks (Edl).			
		Edm	Bedded siltstone-sandstone units (Edm).			
		Edn	Dominantly quartzite (Edn).			
		Edo	Interlayered phyllite and quartzite (Edo).			
		Edp	Fine-grained thickly foliated, phengitic quartzite and subordinate fine-grained massive quartzite. Non-garnetiferous and relatively low metamorphic grade (Edp).			
		Edq	Dolerite (Ed).			
		Edr	Quartz porphyry intrusive within Owen Group (Edr).			
		Eds	Quartz-feldspar +/- biotite porphyry, mostly intrusive but may be partly extrusive (Eds).			
		Edt	Felsic porphyry, typically quartz-feldspar-phryic, includes extrusive and intrusive bodies (Edt).			
Edu	Mainly intrusive quartz-feldspar porphyry (Edu).					
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Edv	Granite (Ed).					

SYMBOL	DESCRIPTION
—	Geological boundary - position approximate.
- - - - -	Geological boundary - inferred.
- . - . - .	Fault - position approximate.
- - - - -	Fault - inferred.
- . - . - .	Fault - concealed, downthrown side indicated.
- - - - -	Fault - concealed, downthrown side indicated.
- . - . - .	Thrust fault - position approximate, teeth on upper plate.
- - - - -	Thrust fault - concealed, teeth on upper plate.
- . - . - .	Axial surface trace of major fold, synform.
- - - - -	Axial surface trace of major fold, antiform.
.....	Moraine ridge crests.

SYMBOL	DESCRIPTION
—	Dip of geological contact of unspecified type.
↘	Strike and dip of bedding - right way up; overturned, facing unknown.
↗	Strike of vertical bedding, facing unknown.
+	Horizontal bedding.
	Strike and dip of compositional layering.
↖	Strike and dip of cleavage of unspecified type and relative age; vertical.
↗	Strike and dip of cleavage or foliation, relative local age S1.
↘	Strike and dip of cleavage or foliation, relative local age S2.
↖	Strike and dip of cleavage or foliation, relative local age S3.
↗	Trend and plunge of minor fold hinge line, unspecified relative age.
↖	Trend and plunge of hinge line of unspecified relative age, minor antiform; minor synform.
↗	Trend of horizontal hinge line of minor antiform, unspecified relative age; synform.
↖	Strike and dip of dominant joint set; vertical.
+	Strike and dip of igneous banding or platy alignment.
+	Field station for adjacent readings on the map.
⊗	Macrofossil location.
⊗	Mineral deposit location - hardrock - data derived from Mineral Resources Tasmania DEPOSITS database. Data point location has not been verified in every case.

REFERENCE THIS MAP AS:
CORBETT, K.D. and SEYMOUR, D.B. (compilers) 2003. Digital Geological Atlas 1:25 000 Scale Series, Sheet 3835, Tyndall, Mineral Resources Tasmania.

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GDA84 - MGA Zone 55. Contour Interval: 20 metres.

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Compiled by K.D. Corbett, B.Sc.(Hons) Ph.D. and D.B. Seymour, B.Sc.(Hons) Ph.D. 1995 from the following sources (see responsibility diagram):

A CORBETT, K.D. and JACKSON, J.C. 1987. Geology of the Tyndall Range area. Map 5, Mt Read Volcanics Project, Department of Mines, Tasmania.

B CORBETT, K.D. 1988. Geology of the Henry River Mt Read area. Map 3, Mt Read Volcanics Project, Department of Mines, Tasmania.

C Air photo interpretation by D.B. Seymour with additional information from Mt Read Volcanics Project Maps 6.

D CORBETT, K.D., CALVER, C.R., EVERARD, J.L. and SEYMOUR, D.B. 1989. Geological Atlas 1:25 000 Series, Queensland. Department of Mines, Tasmania.

E R.D. Reid B.Sc. (Hons), Thesis, University of Tasmania. Geology of the Phoenix River area.

Updated by:
F K.D. Corbett, 2003 as part of the Western Tasmanian Regional Minerals Program.

