



PERIOD	SUBPERIOD	CORRELATES OF TYNDALE GROUP	CORRELATES OF TYNDALE GROUP	
			WESTERN VOLCANIC SEDIMENTARY SEQUENCE	MOUNT HEAD VOLCANICS
CENOZOIC	QUATERNARY	HOLOCENE	Qha	Stream alluvium, swamp and marsh deposits (Qha). Alluvial gravel deposits (Qhag).
			Qhag	
			Qhac	Talus of unspecified type (Qhac).
	PLEISTOCENE	Qpht		
		Qhoe	Older alluvium, marsh deposits and elluvium (Qhoe).	
		Qpmt	Mainly till deposits - unweathered or slightly weathered (Deposits of Marginal Glaciation - 13 000 - 100 000 years before present) (Qpmt).	
		Qpgr	Pleistocene glacial deposits (Qpgr).	
	PERMIAN	UNCONFORMITY	Pufz	Dark grey, poorly sorted, often bioturbated but essentially infossiliferous siltstone and minor sandstone (Pufz).
			Puwz	Poorly sorted, fossiliferous pebbly conglomeratic sandstone (Puwz).
		ELDON GROUP	SDb	Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Bull Shale and correlative) (SDb).
SDi			Generally pale grey, fine-grained quartz sandstone with subordinate interbedded greenish grey siltstone (Florence Quartzite) (SDi).	
SDac			Greenish grey and bluish grey laminated siltstone and minor interbedded fine grained quartz sandstone (Austral Creek Siltstone and correlative) (SDac).	
SDak			Pale grey to white generally fine-grained quartz sandstone (Keel Quartzite and correlative) (SDak).	
SDaa			Siltstone and shale (Amber State and correlative) (SDaa).	
SDc	Generally pale grey and in part pink, commonly current-bedded, fine- to coarse-grained quartz sandstone with common pebbly conglomerate layers and minor interbedded pale green mudstone and siltstone (Crilly Quartzite and correlative) (SDc).			
PALEOZOIC	CROCOVICIAN	CI	Dark grey carbonate rocks, calcareous mudstone, minor quartz sandstone and black clay weathering products in part fossiliferous (correlative of Gordon Limestone) (CI).	
		Osm	Grey to pink, commonly cross-bedded quartz sandstone coarse and pebbly towards base and with tabular trace fossils in upper part (correlative of Moina Sandstone and Pioneer Beds) (Osm).	
	GORDON SUPERGROUP	Ocz	Purple massive to well-bedded, siliceous, mostly cobble-boulder conglomerate with minor interbedded sandstone, siltstone and red mudstone (Mt. Zeehan Conglomerate). Conglomerate clasts: ferruginous quartz sandstone 61%, quartzite 26%, vein quartz 11%, chert 2% (COcz).	
		COcpw	White massive siliceous pebble-cobble conglomerate on Professor Range. Clast composition: quartzite (64%), vein quartz (15%), chert (14%) (COcpw).	
		COcps	Pink interbedded quartz sandstone, pebbly sandstone and sandy pebble-cobble conglomerate on Professor Range. Clast composition: quartzite (69%), chert (24%), vein quartz (7%), quartz sandstone (3%) (COcps).	
	CAMBRIAN	FURNISHIAN	COMs	Marine sandstone-siltstone-conglomerate sequence, siliceous to polymict, marine fossils in places, includes correlative of upper Dundas Group and Rosebery Group (COMs).
			COMsc	Pebble to boulder grade conglomerate with interbedded pebbly sandstone and lithicwacke (Misery Conglomerate) (COMsc).
		OWEN GROUP AND CORRELATES	COMsq	Micaceous quartzwacke sandstone-siltstone-conglomerate sequence (COMsq).
			COMsp	Pebble to boulder grade conglomerate units, mainly siliceous (COMsp).
			COMsc	

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NEOPROTEROZOIC	CAMBRIAN	CAMBRIAN SERIES 3	Cdt	Mainly volcanoclastic to polymict sandstone, breccia siltstone, mudstone and conglomerate, typically quartz-feldspar-phryic. Marine fossils in places. Minor andesitic to basaltic lavas in places (correlative of Tyndall Group) (Cdt).
			Cdab	Andesitic to basaltic lavas and breccias (Cdab).
	OWEN FORMATION	Cdsv	Interbedded volcanoclastic sandstone, breccia, siltstone, mudstone and conglomerate with minor andesitic to basaltic volcanics and intrusives - extrusive porphyry bodies. Includes sequences in Howards Road area (White Spur Formation), Henry Fault Wedge, and Langdon River - Volcanic River area (Cdsv).	
		Cdsv	Quartz-feldspar & biotite porphyry, mainly intrusive but may be partly extrusive (Cdsv).	
		Cdsvx	Mainly volcanoclastic sandstone and breccia and tuffaceous units, typically crystal-rich, with minor siltstone and mudstone (Cdsvx).	
		Cdsvs	Interbedded siltstone-sandstone-mudstone units (Cdsvs).	
		Cdsvc	Dominantly siliceous conglomerate and sandstone (Cdsvc).	
		Cdva	Andesitic to basaltic volcanics (Cdva).	
		Cdv	Dominantly feldspar-phryic volcanic and volcanoclastic rocks, with some andesitic to basaltic volcanics (Cdv).	
		Cdvt	Mainly felsic volcanoclastic and pyroclastic rocks (Cdvt).	
CAMBRIAN	CAMBRIAN SERIES 3	Cdvl	Felsic lava, typically feldspar & quartz-phryic, rhyolitic to dacitic (Cdvl).	
		Cdvs	Shale-siltstone-sandstone units (Cdvs).	
		Cdva	Andesitic volcanics, mostly lavas, breccias and possible intrusives (Anthony Road Andesite) (Cdva).	
Ep	Undifferentiated Onagh Formation. Dominantly quartzwacke turbidites (Ep).			

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PALAEOZOIC	CAMBRIAN	CAMBRIAN SERIES 3	Cdtp	Quartz-feldspar & biotite porphyry, mainly intrusive but may be partly extrusive (Cdtp).
			Cdgc	Gabbro (Cdgc).
	CAMBRIAN	CAMBRIAN SERIES 3	Cdcb	Basaltic dykes, typically chlorite-altered (Cdcb).
			Cam	Mainly massive serpentine with minor ultramafic rocks (Cam).
			Cdcp	Undifferentiated serpentinised layered pyroxene, peridotite, gabbro and basalt (Cdcp).
	CONTACTS	Geological contact	Geological contact - inferred	
		Limit of mapping of sub-unit within undifferentiated rock unit.		
	FAULTS	Fault	Fault - inferred	
		Fault - concealed		
		Thrust fault (teeth on upper plate)	Thrust fault (teeth on upper plate) - concealed	
Linears		Asial surface trace of major antiform		
LINEARS	Asial surface trace of major antiform	Asial surface trace of major synform		
	Moraine ridge crest	Lineational trend line, including bedding trace interpreted from aerial photographs		

INTRUSIVE ROCKS	CONTACTS	FAULTS	LINEARS
Cdtp	Geological contact	Fault	Asial surface trace of major antiform
Cdgc	Geological contact - inferred	Fault - inferred	Asial surface trace of major synform
Cdcb	Limit of mapping of sub-unit within undifferentiated rock unit.	Fault - concealed	Moraine ridge crest
Cam		Thrust fault (teeth on upper plate)	Lineational trend line, including bedding trace interpreted from aerial photographs
Cdcp		Thrust fault (teeth on upper plate) - concealed	

### SOURCE DIAGRAM

Compiled by M.P. McLennaghan, B.Sc.(Hons), Ph.D., 1997 from the following sources (see source diagram):

- A. BROWN, A.V., FINDLAY, R.H., GOSCOMBE, B.D., McLENNAGHAN, M.P. and SEYMOUR, D.B. 1994. Zealand Geological Atlas 1:50 000 Series, Sheet 50 (794S) 1994. Tasmania Department of Mines.
- B. CORBETT, K.D. 1969. Mt Road Volcanics Project 1:25 000 map series Map 3. Geology of the Henry River - Mt Road area, Tasmania Department of Mines.
- C. 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.
- D. TEAR, S. 2002. Annual report for EL62001 (Professor Creek) for the period 22 June 2001 to 22 June 2002. Northern Pacific Pty Ltd. (TCR 02-4757).

Updated as part of the Western Tasmanian Regional Minerals Program by:

- E. CORBETT, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Road Volcanics belt in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/3. Mineral Resources Tasmania.

### REFERENCE THIS MAP AS:

McLENNAGHAN, M.P. (compiler) 2003. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3635 Oceana. Mineral Resources Tasmania.

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### LOCATION DIAGRAM

INDEX TO ADJOINING SHEETS

BEEMERIK EAST (WEST 24 MAPS)	DUNDAS	SILVA
TYNALL	OCEANA	TYNALL
MULLANNA	PROFESSOR	SORANSTON

1:25 000 maps available.

## OCEANA 3635

Map generated: 06-JUN-2024