



PERIOD	UNIT	DESCRIPTION
CEANOZOIC	Qha	Stream alluvium, swamp and marsh deposits (Qha).
	Qph	Talus (Qph), composed dominantly of dolerite (Qphd).
	Qhoe	Older alluvium, marsh deposits and alluvium (Qhoe).
PLEISTOCENE	Qppg	Pleistocene glacial and glaciene deposits (Qppg), fluvial and lacustrine deposits (Qppg).
	Tc	Ironstone capping developed on massive serpentinite (Tc).
PALEOZOIC	P	Undifferentiated Permian-Carboniferous sedimentary rocks (P). Tuffs and associated glauconite rocks (correlate of Wynyard Tuff) (Pt).
	SDb	Grey or greenish grey interbedded laminated mudstone, siltstone and minor fine-grained quartz sandstone (Bell Shale) (SDb). Generally pale grey fine-grained quartz sandstone with subordinate interbedded greenish grey siltstone (Florence Quartzite and correlative) (SDf).
DEVONIAN	SDa	Greenish-grey and bluish-grey laminated siltstone and minor interbedded fine-grained quartz sandstone (Austral Creek Siltstone correlative) (SDa).
	SDak	Pale grey to white, generally fine-grained quartz sandstone (Keel Quartzite and correlative) (SDak).
SILURIAN	SDas	Siltstone and shale - correlative of Amber Shale (SDas).
	SDc	Generally pale grey and in part pink, commonly current-bedded, fine to coarse-grained quartz sandstone with common pebble conglomerate layers and minor interbedded pale green mudstone and siltstone (Crotty Quartzite and correlative) (SDc).
ORDOVICIAN	Oi	Dark grey carbonate rocks, calcareous mudstone, minor quartz sandstone and black clay weathering products, in part fossiliferous (Gordon Limestone) (Oi).
	Oam	Pale grey to pink commonly cross-bedded quartz sandstone, coarse and pebbly toward base and with tubular trace fossils in horizons of upper sequences (correlate of Moira Sandstone) (Oam).
PALEOZOIC	COms	Mainly sandstone-siltstone-conglomerate sequences, siltstone to polymict, with Late Cambrian basins in places. Includes Upper Dundas and Rosebery Group. (Correlates of Owen Group) (COms).
	COmsh	Dominantly interbedded sandstone and siltstone (COmsh).
	COmsh	Conglomerate, pebble to boulder grade, with interbedded pebbly sandstone and siltstone (COmsh).
	COmspc	Mainly siltstone and mudstone with some interbedded sandstone (COmspc).
	COmspc	Polymict conglomerate, typically calcareous, with fucate in places (COmspc).
	COmsd	Dolomitic mudstone, siltstone and sandstone, with some volcaniclastic conglomerate and sandstone in places (COmsd).
	COmsq	Micaceous quartzite sandstone-siltstone-conglomerate sequence (correlate of Silt Quartzite) (COmsq).
	COmsq	Unit of dominantly siltstone and mudstone (COmsq).
	COmsv	Felsic volcaniclastic sandstone and breccia units (COmsv).
	COmsa	Andesite lava (COmsa).

PERIOD	UNIT	DESCRIPTION
PALEOZOIC	Cdt	Volcaniclastic to polymict sandstone-siltstone-mudstone-conglomerate-breccia sequences, typically quartz-feldspar-phyric, with minor felsic to andesitic lavas and late Middle Cambrian fossils in places. Includes parts of lower Dundas Group, most of Huskisson Group (correlate of Tyndall Group) (Cdt).
	Cdts	Dominantly volcaniclastic sandstone, typically felsic with interbedded siltstone and minor conglomerate (Cdts).
	Cdsh	Mainly interbedded mudstone and siltstone (Cdsh).
	Cdsh	Andesite to basaltic volcanics, highly altered in part (includes Curlew-Davis volcanics) (Cdsh).
	Cdsh	Dominantly conglomerate, volcaniclastic to polymict, with interbedded sandstone (Cdsh).
	Cdsh	Dominantly chert-rich conglomerate and pebbly sandstone, with interbeds of volcaniclastic sandstone (Razorback Conglomerate and correlative) (Cdsh).
	Cdsh	Felsic lava, typically quartz-feldspar-phyric, commonly flow-banded and autobrecciated (Cdsh).
	Cdsh	Mainly crystal-rich volcaniclastic sandstone and breccia, typically banded pink and green, quartz-feldspar-phyric, with minor siltstone and conglomerate (Mt Julia Member or Middle Tyndall Group) (Cdm).
	Cdv	Dominantly felsic-phyric volcanic and volcaniclastic rocks (Cdv).
	Cdv	Feldspar-quartz porphyry, typically with spherulitic groundmass, intrusive to partly extrusive (Cdv).
NEOPROTEROZOIC	Cdb	Mainly felsic volcaniclastic and pyroclastic rocks, dominantly felsic-phyric, including pumice-bearing units (Cdb).
	Cdb	Pumice-bearing volcaniclastic rocks, usually with eutaxitic texture (Cdb).
	Cdb	Litic breccia (Cdb).
	Cdv	Crystal-rich luffaceous sandstone, well-bedded in places (Cdv).
	Cdv	Fine-grained vitriclastic mudstone (Cdv).
	Cdv	Felsic lava typically felsic + quartz-phyric, rhyolitic to dyalitic (Cdv).
	Cdv	Siltstone-sandstone-shale unit (Cdv).
	Cdv	Undifferentiated Oonah Formation. Dominantly quartzite turbidites (Pb). Mafic vascular lava (Pb).
	Cdv	Quartzite with siliceous siltstone and pelite (K-Ar age 684 ± 10Ma) (Correlative of Oonah Formation) (Pb) showing metamorphic transition (Pb) into fine-grained mica + chlorite schist (Pbc).
	Cdv	Unconformity.

PERIOD	UNIT	DESCRIPTION
NEOPROTEROZOIC	Cdsv	Interbedded volcaniclastic sandstone, breccia, siltstone, mudstone and conglomerate, with minor andesite to basaltic volcanics and intrusive porphyries, includes parts of White Spur Formation, Hercules hanging wall sequence, lower Dundas Group and lower Huskisson Group (Cdsv).
	Cdsvhr	Mainly laminated siltstone and mudstone with minor sandstone (includes Hodge State, Hercules Shale, Jones Creek Shale) (Cdsvhr).
	Cdsv	Dominantly conglomerate volcaniclastic to polymict (includes Red Lead Conglomerate) (Cdsv).
	Cdsv	Mainly volcaniclastic sandstone, typically crystal-rich (quartz-feldspar), with some siltstone and mudstone (Cdsv).
	Cdbm	Massive to pillowed, aphyric basalt flows with interbedded breccia flows (Cdbm).
	Cdb	Low Ti tholeiitic and boninitic lavas (Cdb).
	Ccw	Basaltic lithicwacke, siltstone and red green mudstone, with minor basalt and mafic intrusive rocks (correlate of Cleveland-Warrah Association) (Ccw).
	Ccab	Areas of tholeiitic basalt lava (Ccab).
	Cdv	Undifferentiated Success Creek Group and Crimson Creek Formation rocks (Cdv). Dominantly mafic volcaniclastic lithicwacke with siltstone and carbonate beds (Crimson Creek Formation) (Cdv).
	Cdv	Interbedded volcaniclastic lithicwacke, siltstone and vitric-litic tuff. Tectonic affinity uncertain. Possible correlative of Crimson Creek Formation (Cdv).
MESOZOIC	Psv	Local more felsic unit with shales (Psv). Also small outcrops of laminated siltstone and lithicwacke (Psv).
	Psv	Shallow water quartz sandstone and siltstone with carbonate and chert beds (Psv). Dominantly laminated grey siliceous siltstone with minor quartz sandstone and conglomerate horizons (Psv).
	Psv	White well sorted quartz sandstone (Psv).
	Psv	Pink well sorted quartz sandstone (Psv).
	Psv	Red to purple hematitic siltstone (Psv).
	Psv	Possible stratigraphic horizons of sheared carbonaceous siltstone with phacoids of broken sandstone beds, forming tectonic intrusions into Psv and Psvt (Psv).
	Psv	Dominantly quartz sandstone with laminated grey siltstone and mudstone and locally pebbly sandstone and conglomerate, including a basal sequence with carbonate beds, thin luffaceous horizons and conglomerate beds (Psv).
	Psv	Unconformity.
	Psv	Undifferentiated Oonah Formation. Dominantly quartzite turbidites (Pb). Mafic vascular lava (Pb).
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PERIOD	UNIT	DESCRIPTION
MESOZOIC	Jd	Dolerite (Jd).
	Dgpp	Quartz porphyry (Dgpp).
	Dgpm	Red and/or white massive quartz bodies (Dgpm).
	Cdcb	Basaltic dykes, typically chlorite-altered (Cdcb).
	Cdcs	Feldspar-quartz porphyry, commonly spherulitic (Cdcs).
	Cgc	Gabbro, typically coarse-grained (Cgc).
	Cgp	Massive and multiple-intrusive two-pyroxene, granular textured gabbro (Cgp).
	Cspg	Serpentinized peridotite with intrusive gabbro (Cspg).
	Csp	Serpentinized orthopyroxene-rich peridotite (Csp).
	Csp	Serpentinized olivine-rich peridotite (Csp).
CONTACTS	Geological contact.	Geological contact - inferred.
	Geological contact - inferred.	Transitional geological contact.
	Transitional geological contact.	Limit of mapping of sub-unit within undifferentiated rock unit.
	Unconformity.	Unconformity.
	Fault - inferred.	Fault - inferred.
	Fault - inferred.	Fault - concealed.
	Fault - concealed.	Thrust fault (teeth on upper plate).
	Axial surface trace of major antiform.	Axial surface trace of major synform.
	Axial surface trace of major antiform.	Axial surface trace of major synform.
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SOURCE DIAGRAM

LOCATION DIAGRAM

Compiled by D.B. Seymour, B.Sc.(Hons), Ph.D. and 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., MACLENNAGHAN, M.P., and SEYMOUR, D.B. 1994. Zeehan, Geological Atlas 1:50,000 Series sheet 50 (7143). Tasmania Department of Mines.
- B. CORBETT, K.D. 1986. Map 3. Geology of the Henry River - Mt Read area. Mt Read Volcanics Project. Tasmania Department of Mines.
- C. Unpublished data, Pasminco Exploration.

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

- D. CORBETT, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics belt in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/03. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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Map generated: 06-JUN-2024