



CEANOZOIC	
QUATERNARY	<p>Q Qha Holocene alluvium, swamp and marsh deposits (Qha).</p> <p>Qggg Pleistocene glacial deposits, usually bouldery (Qggg).</p>
PALEOZOIC	<p>COsu Undifferentiated shallow marine - non-marine siliciclastic conglomerate - sandstone sequence - Owen Group and correlatives (CO), upper unit of generally pink sandstone and granite-pebble conglomerate with subordinate siltstone. Clasts of chert common. Some trace fossils. Upper Owen Sandstone and correlatives (COsu).</p> <p>COsl Unit of grey sandstone, siltstone and conglomerate with possible minor limestone (COsl).</p> <p>COsc Unit of coarser pebble-cobble conglomerate (COsc).</p> <p>COom Pebble-cobble to cobble-boulder conglomerate, thick-bedded to massive, with minor sandstone lenses. Middle Owen Conglomerate and correlatives (COom).</p> <p>COms Unit of interbedded conglomerate and sandstone (COms).</p> <p>COmn Interbedded micaceous sandstone, siltstone and siliciclastic pebble conglomerate. Mostly grey in colour. Marine fossils in places. Newton Creek Sandstone and correlatives (COmn).</p> <p>COms Unit of dominantly siltstone and shale (COms).</p> <p>COcl Pebble-cobble to cobble-boulder conglomerate, thick-bedded to massive, with minor sandstone lenses. Lower Owen Conglomerate and correlatives (COcl).</p> <p>COvc Volcanic conglomerate, breccia and sandstone, usually at base of sequence. Includes corals of Jules Conglomerate (COvc).</p>
	<p>Cdti Interbedded volcanoclastic and volcanic rocks, typically quartz-feldspar-phryic (Cdti).</p> <p>Cdvc Dominantly volcanoclastic conglomerate and sandstone (Cdvc).</p> <p>Cdli Felsic lava and lava breccia, typically quartz-feldspar-phryic (Cdli).</p> <p>Cdmi Mainly crystalline volcanoclastic sandstone and breccia, typically banded pink and green, quartz-feldspar-phryic, with minor siltstone and conglomerate (Mt Julia Member or Middle Tyndall Group) (Cdmi).</p>

PALEOZOIC	
CAMBRIAN	<p>Cdtp Interbedded volcanic and volcanoclastic rocks and intrusive porphyries, typically quartz-feldspar-phryic (Cdtp).</p> <p>Cdtpi Felsic porphyry, typically quartz-feldspar-phryic, includes extrusive and intrusive bodies (Cdtpi).</p> <p>Cdtpv Mainly intrusive quartz-feldspar porphyry (Cdtpv).</p> <p>Cdtpc Vitriclastic cherty mudstone (Cdtpc).</p> <p>Cdtpv Dominantly volcanoclastic rocks, typically quartz-feldspar-phryic (Cdtpv).</p> <p>Cdtpc Siliciclastic conglomerate and sandstone with interbedded micaceous siltstone and minor volcanoclastic rocks. Stich Range Beds (Cdtpc).</p> <p>Cdtpv Pebble-cobble conglomerate unit (Cdtpv).</p> <p>Cdtpv Volcanic sandstone unit (Cdtpv).</p>
CAMBRIAN	<p>Cdvt Dominantly felsic-phryic volcanic and volcanoclastic rocks (Cdvt).</p> <p>Cdvti Mainly felsic volcanoclastic and pyroclastic rocks, dominantly felsic-phryic, including pumice-bearing units (Cdvti).</p> <p>Cdvti Block and ash flow breccia with lithic clasts and pumice fragments (Cdvti).</p> <p>Cdvti Shale-siltstone-sandstone units (Cdvti).</p> <p>Cdvti Felsic lava, typically felsic-phryic rhyolite to dacite (Cdvti).</p> <p>Cdvti Feldspar-quartz porphyry, typically with spherulitic groundmass (Cdvti).</p> <p>Cdvti Basalt, commonly chlorite-altered (Cdvti).</p> <p>Cdvti Interbedded volcanoclastic sandstone, breccia, siltstone, mudstone and conglomerate, with minor andesitic to basaltic volcanics and intrusive - extrusive porphyries. Includes parts of White Spur Formation, Hercules hanging wall sequence, lower Dundas Group and lower Muskis Group (Pdvti).</p>

MESOPROTEROZOIC	
DEVONIAN	<p>Pt Metamorphic rocks, dominantly metaquartzite and metapelite (Pt). Dominantly quartzite (Pt).</p> <p>Pt Dominantly phyllite (Pt).</p> <p>Ptp Interlayered phyllite and quartzite (Ptp).</p>
PALEOZOIC	<p>DI Lamprophyre (DI).</p> <p>Cgr Granite (Cgr).</p> <p>Cbc Basaltic dykes, typically chlorite-altered (Cbc).</p> <p>Cgp Gabbro (Cgp).</p> <p>Cdtp Felsic porphyry, typically quartz-feldspar-phryic, includes extrusive and intrusive bodies (Cdtp).</p> <p>Cdtpi Mainly intrusive quartz-feldspar porphyry (Cdtpi).</p> <p>Cdts Feldspar-quartz porphyry, typically with spherulitic groundmass (Cdts).</p>

CONTACTS	
—	Geological contact.
- - - - -	Geological contact - inferred.
.....	Limit of mapping of sub-unit within undifferentiated rock unit.
FAULTS	
---	Fault.
- - - - -	Fault - inferred.
.....	Fault - concealed.
.....	Normal fault (downthrown side indicated) - concealed.
LINEARS	
—	Axial surface trace of major antiform.
—	Axial surface trace of major synform.
.....	Moraine ridge crest.

SOURCE DIAGRAM		
A.E.	C.	D.
B.E.		

Highly detailed (eg. more detailed than 1:25 000 scale mapping).
 Detailed systematic (eg 1:25 000 map or equivalent detail).
 Regional systematic (eg 1:50 000, 1:63 360 map or equivalent detail).
 Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
 Reconnaissance mapping with sparse ground traverses.
 Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by K.D. Corbett, B.Sc (Hons) Ph.D., A.W. McNeill, B.Sc (Hons), and J.C. Jackson, B.Sc (Hons), 1995 from the following sources (see source diagram):
 A. McNeill, A.W. 1987. Geology of the Mt Murchison area. Map 4. Mt Read Volcanics Project. Department of Mines, Tasmania.
 B. Corbett, K.D. and Jackson, J.C. 1987. Geology of the Tyndall Range area. Map 5. Mt Read Volcanics Project. Department of Mines, Tasmania.
 C. Corbett, K.D. and McNeill, A.W. 1986. Geology of the Rosebery - Mt Block area. Map 2. Mt Read Volcanics Project. Department of Mines, Tasmania.
 D. Corbett, K.D. and McNeill, A.W. 1988. Geological Compilation Map of the Mt Read Volcanics, Hellier to South Devon Peak. Map 6. Mt Read Volcanics Project. Department of Mines, Tasmania.
 Updated by:
 E. Corbett, K.D. 2004. Updating and revision of the 1:25 000 scale series geological maps covering the Mt Read Volcanics both in western and northwestern Tasmania. Tasmanian Geological Survey Record 2004/03. Mineral Resources Tasmania.

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REFERENCE THIS MAP AS:
 CORBETT, K.D., McNEILL, A.W. and JACKSON, J.C. (compilers)
 2003. Digital Geological Atlas 1:25 000 Series. Sheet 3836 Selina.
 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
 GDA94 - MGA Zone 55. Contour Interval: 20 metres.

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