

| CENOZOIC            | QUATERNARY |   |
|---------------------|------------|---|
|                     | HOLOCENE   | PLISTOCENE  |
|                     | Qha        | Recent landslide talus and debris flows (Qha).  |
|                     | Qhs        | Stream alluvium, swamp and marsh deposits (Qhs).  |
| PALEOGENE - NEOGENE | Tb         | Basalt (Tb); alkali basalt (Tba); basaltic (Tbb); basaltic (Tbh); olivine nephelinitic (Tbn); transitional olivine basalt (Tbt); tholeiitic basalt (Tbt).                 |
|                     | Tbat       | Crystal rich basaltic breccia, conglomerate and sandstone (Tbat).   |
|                     | Tgs        | Interbedded siliceous gravel, quartz sand and clay (Tgs).   |
|                     |            | Unconformity.   |
| PALEOZOIC           | Pip        | Fresh-water, thin-bedded cross-bedded fine-grained sandstone, siltstone and carbonaceous shale (Proterozoic Coal Measures) (Pip).   |
|                     | Pli        | Grey, poorly bedded siltstone, mudstone and fine-grained sandstone, locally micaceous or pyritic with marine fossils near the top (correlates of Inglis Siltstone) (Pli). |
|                     | Ppw        | Interbedded dimictic (including siltite), pebbly mudstone and laminated mudstone (rhythmic), with minor conglomerate and sandstone (correlate of Wyriyang Tillite) (Ppw). |
|                     |            | Angular unconformity.   |

| MESOPROTEROZOIC - NEOPROTEROZOIC | DONAH FORMATION |   |
|----------------------------------|-----------------|---|
|                                  | Po              | Pom   |
|                                  | Po              | Dominantly quartzwacke turbidite (Donah Formation) (Po).  |
|                                  | Pom             | Dominantly greywacke and pelitic siltstone/mudstone (possible correlate of upper Donah Formation) (Pom).                                    |
|                                  | Pqtz            | Quartzite and quartz-mica schist with lesser phyllite (Pqtz).   |
|                                  | Pphl            | Phyllite, pelitic schist and lesser quartz-muscovite schist (Pphl).   |
|                                  | Ppms            | Muscovite schist with lesser chlorite schist, quartz-mica schist, and phyllite (Ppms).  |
|                                  | Pmsc            | Muscovite schist with lesser chlorite schist, quartz-mica schist, and phyllite (Pmsc).  |
|                                  | Pchl            | Chlorite schist and mica-schist, with lesser quartz-mica schist, and phyllite (Pchl).   |
|                                  | Pdol            | Dolomite (unit within Pdl) (Pdol).  |
|                                  | Pdolm           | Hematite-ilmenite-gyrite gossan of Keith River Gossan Zone (mappable unit within Pacm) (Pdolm).   |
|                                  | Pacm            | Dolomite and magnesite-dolomite (Pacm).   |
|                                  | Pacm            | Dominantly mudstone, phyllite, mudstone, siltstone, quartzite, dolomitic sediments and minor quartz-mica schists (Pacm).                    |
|                                  | Pasp            | Chloritic schist with minor phyllite, dolomite and magnesite (Pac); phyllite and pelitic schists (Psp) indicated.                           |
|                                  | Pap             | Phyllite with minor pelitic schist, foliated quartzite and dolomite, rare conglomerate (Pap).   |
|                                  | Papd            | Dolomite and magnesite-dolomite (within unit Pap) (Papd).   |
|                                  | Pqz             | Well bedded, cross-bedded, mostly medium to coarse-grained orthoquartzite (Jacob Quartzite) (Pqz).  |
|                                  | Pqc             | Interbedded, black, dark grey and green, commonly pyritic, laminated siltstone and mudstone, with rare sandstone (Cowieie Siltstone) (Pqc). |

| IGNEOUS ROCKS |  |
|---------------|--|
| Pmd           | Undifferentiated dolerite dykes (Pmd).   |
| Pmdt          | Tholeiitic dolerite dykes (Pmdt).        |
| Pmds          | Cr-spinel bearing dolerite dykes (Pmds). |
| Paa           | Amphibolite (Paa).                       |
| Paas          | Cr-spinel bearing amphibolite (Paas).    |

| CONTACTS  |   |
|-----------|---|
| —         | Geological contact.   |
| - - - - - | Geological contact - inferred.                                  |
| - - - - - | Geological contact - inferred from magnetic data.               |
| - - - - - | Geological contact - inferred from radiometric data.            |
| - - - - - | Transitional geological contact.                                |
| - - - - - | Metamorphic contact.  |
| - - - - - | Limit of mapping of sub-unit within undifferentiated rock unit. |
| - - - - - | Limit of detailed mapping.                                      |

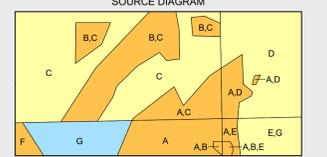
  

| FAULTS    |  |
|-----------|--|
| - - - - - | Fault.   |
| - - - - - | Fault - inferred.  |
| - - - - - | Fault - concealed.   |
| - - - - - | Normal fault (downthrown side indicated).                                  |
| - - - - - | Normal fault (downthrown side indicated) - concealed.                      |
| - - - - - | Subsurface geological boundary projected to surface.                       |
| - - - - - | Lineament - visible in magnetic data.                                      |
| - - - - - | Magnetic gradient or lineament (direction towards lower values indicated). |

| LINEARS   |  |
|-----------|--|
| - - - - - | Subsurface geological boundary projected to surface.                       |
| - - - - - | Lineament - visible in magnetic data.                                      |
| - - - - - | Magnetic gradient or lineament (direction towards lower values indicated). |

|   |  |
|---|--|
| + | Strike and dip of bedding - right way up; horizontal.  |
| + | Strike and dip of bedding, facing unknown - dipping; vertical.   |
| + | Strike and dip of compositional layering.  |
| + | Generalised palaeocurrent direction, showing sense of movement.  |
| + | Strike and dip of cleavage of unspecified type and relative age; parallel to bedding, facing unknown.  |
| + | Strike and dip of crenulation cleavage - dipping.  |
| + | Strike and dip of cleavage, dipping, relative local age S <sub>1</sub> ; S <sub>2</sub> ; S <sub>3</sub> .   |
| + | Strike and dip of metamorphic foliation other than cleavage - dipping; vertical; relative local age S <sub>1</sub> .   |
| + | Strike and dip of metamorphic foliation other than cleavage, parallel to bedding, facing unknown; parallel to compositional layering.  |
| + | Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified; vertical.   |
| + | Strike and dip of dominant joint set.  |
| + | Trend and plunge of lineation of unspecified type; crenulation lineation.  |
| + | Trend and plunge of bedding/synformal cleavage intersection lineation (L.I.).  |
| + | Trend and plunge of lineation L <sub>1</sub> formed by intersection of cleavage or foliation of relative local age S <sub>1</sub> with older cleavage or foliation.                                      |
| + | Trend and plunge of minor fold hinge line, unspecified relative age; with dip and dip direction of axial surface; with vertical axial surface.   |
| + | Trend and plunge of horizontal minor fold hinge line, unspecified relative age; symmetrical; recumbent minor fold.   |
| + | Trend and plunge of kink-fold hinge line, sense of displacement unknown; with dip and dip direction of axial surface; displacement viewed down-plunge; axial surface orientations may be shown as above. |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>1</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>2</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>3</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>4</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>5</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>6</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>7</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>8</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>9</sub> , with dip and dip direction of axial surface.  |
| + | Trend and plunge of minor fold hinge line, relative local age F <sub>10</sub> , with dip and dip direction of axial surface.   |
| + | Field station for adjacent readings on the map.  |
| + | Notable small outcrop with rock unit indicated.  |
| + | Notable small float or lag occurrence with rock unit indicated.  |
| + | Macrofossil location.  |
| + | Microfossil location.  |
| + | Mineral deposit location - hardrock.   |
| + | Mineral deposit location - alluvial/alluvial.  |
| + | Construction material/industrial mineral/gastone location.   |



Compiled by G.V. Cumming, B.Sc.(Hons) and C.J. Jackman, B.Sc.(Hons), 2018 from the following sources (see source diagram):

A. G. V. Cumming, new field mapping 2017.

B. C. J. Jackman, new field mapping 2017.

C. FERRARD, J.L., SEYMOUR, D.B., BROWN, A.V. and CALVER, C.R. 1996. Geological Atlas 1:50 000 Series, Sheet 27 (7915N), Tasmania Department of Mines.

D. GEE, R.D., CULLINE, A.B. and BRAVO, A.P. 1987. Geological Atlas 1:63 360 Series, Sheet 28 (8015N), Tasmania Department of Mines.

E. BAILLIE, P.W., WILLIAMS, P.R., SEYMOUR, D.B., LENNOX, P.G. and GREEN, G.R. 1996. Geological Atlas 1:50 000 Series, Sheet 36 (8015S), St. Valentines, Tasmania Department of Mines.

F. J. L. Everard, new field mapping 2017.

G. J. L. Everard, interpretation of airborne magnetics and radiometrics, 200m line spacing, from MRT (WTRMF), 2001.

REFERENCE THIS MAP AS:  
CUMMING, G.V. and JACKMAN, C.J. (compilers) 2018. Digital Geological Atlas 1:25 000 Scale Series, Sheet 3643 Keith, 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.



While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any person whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data. Crown copyright reserved.

