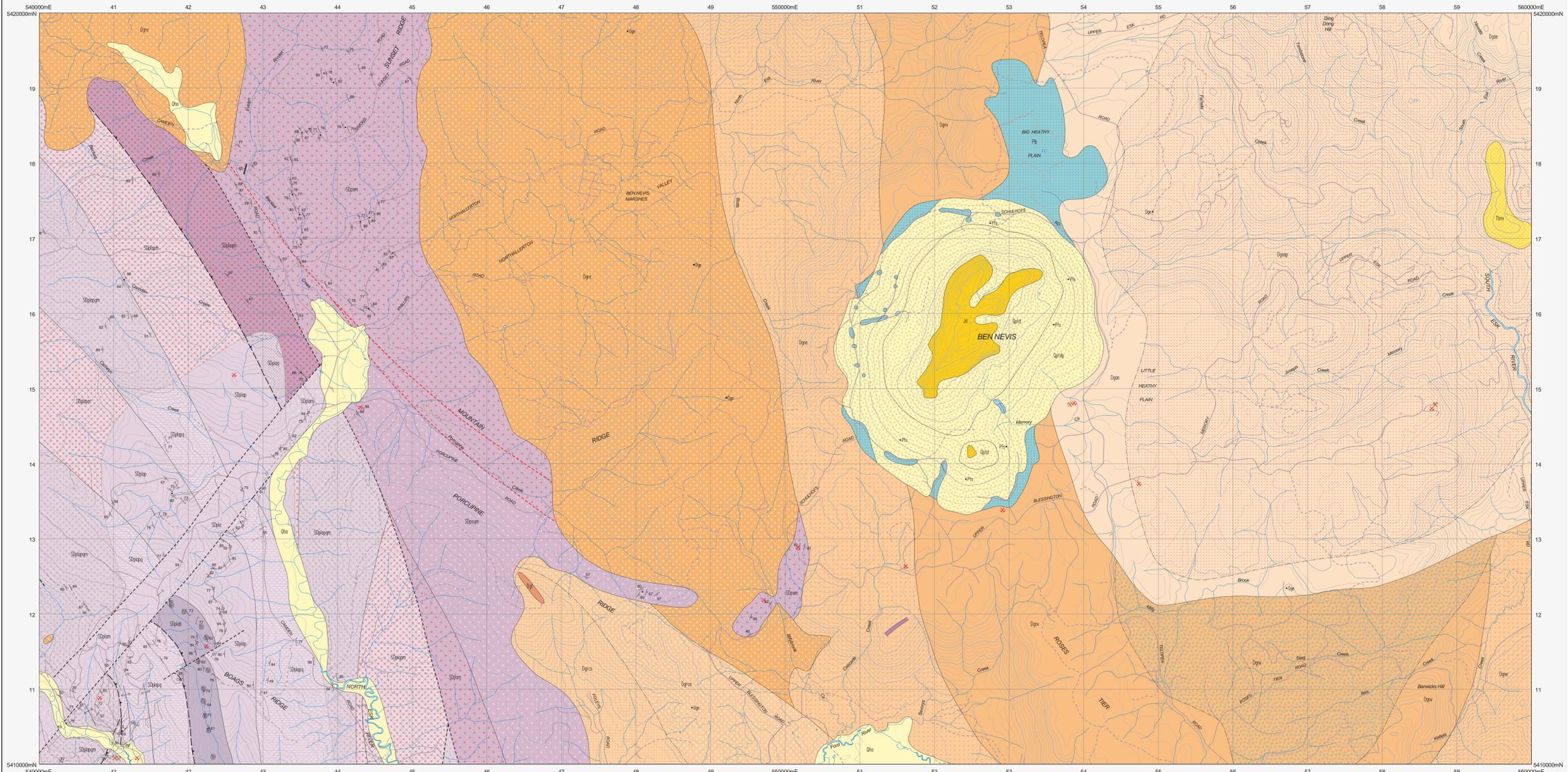
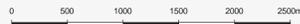


BEN NEVIS

Scale: 1:25 000



PERMIAN	PALEOZOIC	PALEOGENE-NEOGENE	QUATERNARY
<p>Pf Poorly sorted pebbly mudstone, sandstone and minor conglomerate marine fossils present in places (Pfb).</p> <p>Pt Dominantly well sorted quartz sandstone, usually cross-bedded and commonly with interbedded and interstratified carbonaceous shale lesser conglomerate and rare coal (Ptc).</p> <p>Pum Mudstone siltstone and poorly sorted sandstone. Uncommon marine fossils (Pum).</p>	<p>S0pam Dominantly fine-grained turbiditic quartz-rich sandstone, with some interbedded siltstone. Contains vascular plant fossil fragments, contact metamorphosed by granitic intrusion (S0pam).</p> <p>S0pam Medium- to fine-grained turbiditic quartz-rich sandstone with interbedded argillaceous siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>S0pam Fine- to medium-grained quartz-rich sandstone unit with S0pam interbedded thin-bedded siltstone and fine-grained quartz-rich sandstone with S0pam, contact metamorphosed by granitic intrusion (S0pam).</p> <p>S0pam Commonly thin-bedded siltstone with minor quartz-rich sandstone (S0pam), contact metamorphosed by granitic intrusion (S0pam).</p> <p>S0pam Fine- to medium-grained quartz-rich sandstone unit with S0pam interbedded thin-bedded siltstone and fine-grained quartz-rich sandstone with S0pam, contact metamorphosed by granitic intrusion (S0pam).</p> <p>S0pam Dry and block stone with granitic fossils of upper age and interbedded turbiditic siltstone unit with S0pam (S0pam).</p> <p>S0pam Coarse, S0pam, S0pam, S0pam, S0pam, S0pam, S0pam, S0pam - possible correlates of Lone Star Sandstone.</p>	<p>Oha Stream alluvium, swamp and marsh deposits (Oha).</p> <p>Opa Older alluvium of river terraces (Opa).</p> <p>Oplb Talus consisting dominantly of dolerite boulders (Oplb). Talus consisting dominantly of dolerite and subordinate Lower Permian rocks (Oplb).</p> <p>Oplc Talus consisting dominantly of dolerite boulders (Oplc).</p> <p>Tbnx Olivine nephelinite with hercynite nodules (Tbnx).</p>	<p>Uc Uncertainty.</p>

DEVONIAN	DEVONIAN/JURASSIC	IGNEOUS ROCKS
<p>Dgca Medium- to coarse-grained, dominantly equigranular, leucocratic biotite syenogranite/monzogranite with pale pink feldspar (Dgca) (Central phase of Tomstone Creek Granite, I-type).</p> <p>Dgcp Fine- to coarse-grained, sparsely to moderately porphyritic (quartz and K-feldspar) biotite-sillite feldspar granite/syenogranite (Dgcp) (margin phase of Tomstone Creek Granite, I-type).</p> <p>Dgrv Medium- to coarse-grained, variably equigranular, serotite or sparsely porphyritic (K-feldspar phenocrysts to 30mm), biotite and hornblende monzogranite/porphyroite (Dgrv), variety with very abundant fine- to coarse-grained quartz-biotite enclaves (Dgrv) (Dgrv, Dgrc, Heparth Road Granite, I-type).</p> <p>Dgna Coarse- to very coarse-grained, equigranular biotite +/- hornblende monzogranite/monzonite (Dgna) (Russell Road Granite, I-type).</p> <p>Dgrcs Coarse-grained equigranular to serotite (K-feldspar), biotite-hornblende granodiorite (Dgrcs); very coarse-grained (>30mm) variety (Dgrcs) (Dgrcs, Dgrca - Upper Bessington pluton, I-type).</p> <p>Dgrs Medium- to coarse-grained, equigranular, biotite-hornblende granodiorite (Dgrs) (Porcupine Creek Granodiorite in east and Diddams Granodiorite in west, I-type).</p>	<p>Tbnx Olivine nephelinite with hercynite nodules (Tbnx). Ar-Ar radiometric age 17.5 +/- 0.2 and 16.1 +/- 0.2 Ma from apatite 559532mE 5417820mN and basaltic 559539mE 5417312mN respectively.</p> <p>Jd Dolerite (Jd).</p> <p>Dd Dolerite (Dd).</p>	<p>MINOR GRANITIC INTRUSIONS</p> <p>Dgf Quartz-feldspar porphyry (Dgf).</p> <p>Dge Aplitic granite (Dge).</p>

- Geological boundary - position accurate or approximate.
- Transitional geological boundary - position approximate.
- Fault - inferred.
- Normal fault (downthrown side indicated) - position accurate or approximate.
- Normal fault (downthrown side indicated) - inferred.
- Thrust fault (teeth on upper plate) - position accurate or approximate.
- Metamorphic boundary - position approximate.
- Axial surface of major anticline.
- Limit of mapping of sub-unit within undifferentiated rock unit.

- Strike and dip of bedding: right way up; overturned; facing unknown.
- Strike and dip of vertical bedding, facing unknown.
- Strike and dip of cleavage of unspecified type and relative age; vertical.
- Strike and dip of outcrop-scale fault of unspecified relative age; type unspecified.
- Strike of outcrop-scale fault, relative local age D1, downthrown side indicated.
- Trend and plunge of minor fold hinge line, unspecified relative age.
- Trend and plunge of kink-fold hinge line, with dip and dip direction of axial surface, and sense of displacement viewed down-plunge: sinistral.
- Trend of paleoaccrual lineation, polarity unknown.
- Notable small fault or log occurrence, with rock type indicated.
- Notable small outcrop, with rock type indicated.
- Field station for adjacent readings on the map.
- Fossil location.
- Mineral deposit location - hardrock.
- Data derived from Mineral Resources Tasmania DEPOSITs database. Data point position has not been verified in every case.

Compiled by M.P. McLennaghan, B.Sc. (Hons), Ph.D., 2005 from the following sources (see responsibility diagram):

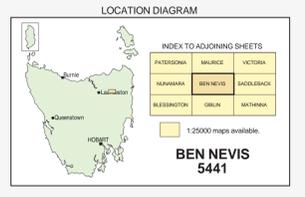
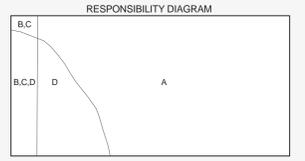
A. MCLENNAGHAN M.P., EVERARD, J.L., GOSCOMBE B.D., FINDLAY R.H., CALVER C.R. 1993. Geological Atlas 1:50 000 Series, Sheet 40 (84153), Tasmania Department of Mines.

B. LONGMAN M.J., MATTHEWS W.L., ROWE S.M. 1964. Geological Atlas 1:63 300 Series, Sheet 20 (83353), Tasmania Department of Mines.

C. M.P. McLennaghan and D.B. Seymour, 2005. Additional mapping.

Updated by:

D. D.C. Green, 2011. 1:25 000 scale geological mapping and interpretation of airborne geophysical data as part of the Tailcapture project.



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GREEN, D.C. 2011. Digital Geological Atlas 1:25 000 Scale Series, Sheet 5441, Ben Nevis, Mineral Resources Tasmania.

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Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.
GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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