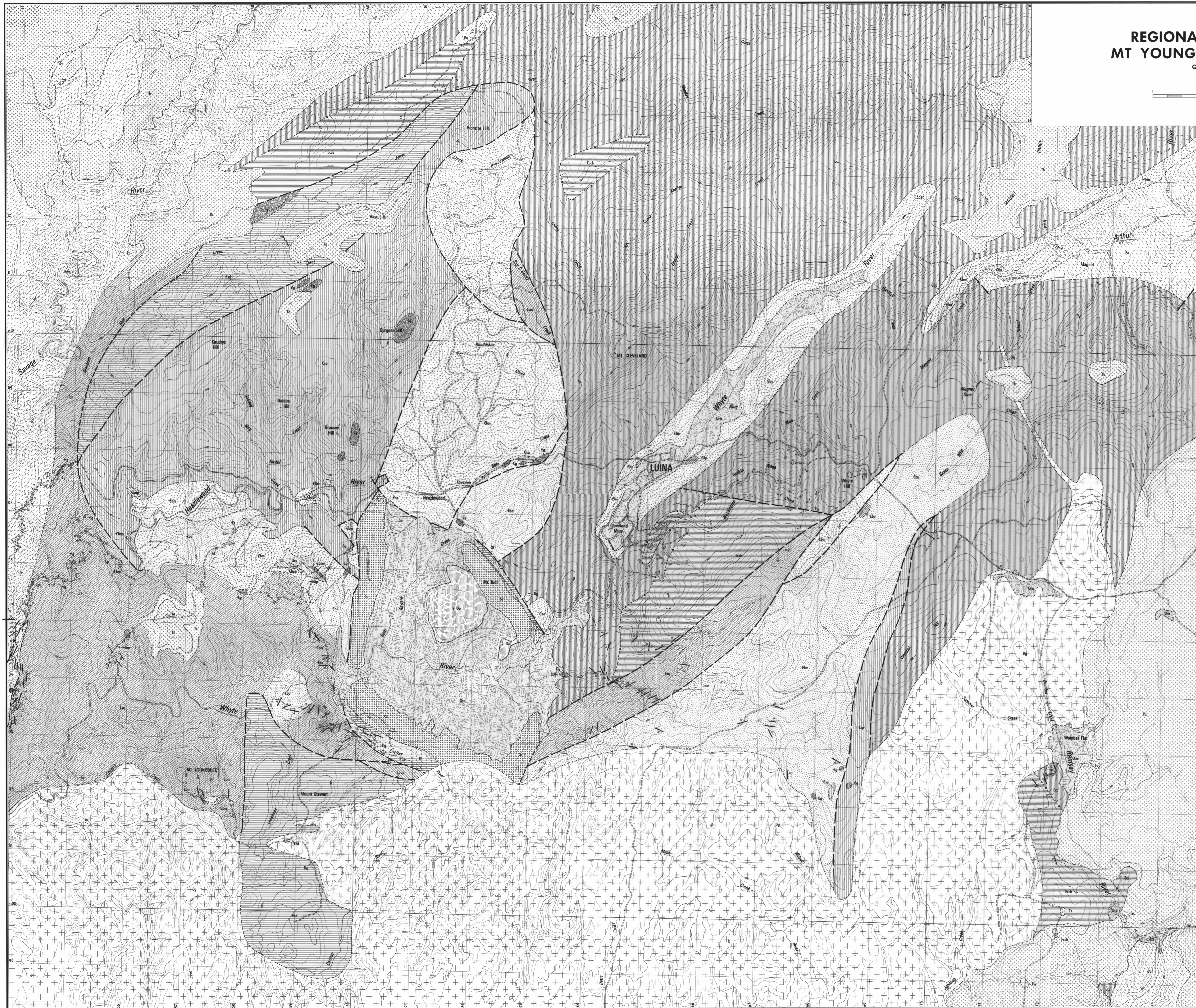
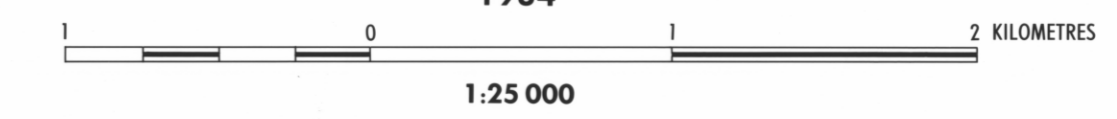


# REGIONAL GEOLOGY OF THE MT YOUNGBUCK — MAGNET AREA

Geology and compilation by  
**A.V. BROWN B.Sc. (Hons)**  
1984



### REFERENCE

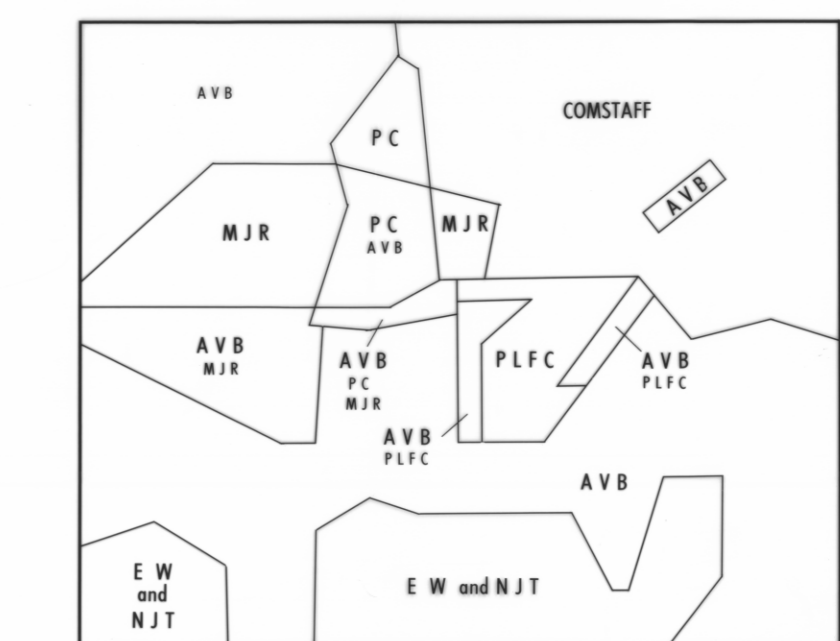
<b>QUATERNARY</b>	Qm	Marsh and swamp deposits; alluvium; river gravels.
	Qe	Erosional Break
<b>TERTIARY</b>	Ts	Sand, silt and volcanic breccia.
	Tt	Thalassic and alkali olivine basalt.
	Tc	Sediments and conglomerate; siltstone indicated (Tcs).
	Ts	Sediments
		Angular Unconformity
<b>DEVONIAN</b>	Ds	Siltstone, mudstone and calcareous siltstone (correlate of the Asher Formation).
<b>SILURIAN</b>	Ss	Quartz sandstone with minor mudstone and granule conglomerate (correlate of the Crofty Formation).
<b>ORDOVICIAN</b>	Or	Limestone and impure limestone with variable texture (correlate of the Gordon Limestone).
	Ou	Quartzite and minor mudstone.
		Erosional Break
<b>EOCAMBRIAN</b>	Ec	Volcaniclastic lithowacke, siltstone, mudstone and thalassic basalt (correlate of the Cresson Creek Formation). Areas of dominantly basalt indicated (Ecab).
		Angular Landscape Unconformity
<b>PRECAMBRIAN</b>	Pu	Indurated quartz sandstone, siltstone and mudstone (correlate of the Oonah Formation).
	Pw	Schistose quartz sandstone, siltstone and mudstone (correlate of the 'Whyte Schist').

### Igneous Rocks

<b>TERTIARY</b>	Tt	Thalassic and alkali olivine basalt.
<b>DEVONIAN</b>	Dg	Porphyritic fine to coarse-grained biotite granite/adamellite.
	Df	Fine to coarse-grained gabbro.
	Dm	Massive ultramafic cumulate.
<b>CAMBRIAN</b>	Cm	Massive and pillow agyritic basalt flows, commonly brecciated (low-titanium thalassic). Individual flows graded from coarse-grained base to pillow tops. Interbasalt sandstone and siltstone indicated (Cmss).
	Cp	Porphyritic (orthopyroxene + clinopyroxene), high-magnesian andesite, commonly with pillow and breccia flows. Associated coarse-grained pyroxenite (<math>\approx 1\%</math> Clap).
	Ct	Tonalite and associated rocks.
	Cs	Serpentinized, layered peridotite and pyroxenite. Serpentinic mélange indicated (Csmt).
	Cd	Serpentinized dunite with areas of interlayered pyroxene-bearing dunite.

- Geological boundary—position approximate
- Geological boundary—inferred
- Geological boundary—transitional
- Fault—position approximate
- Fault—inferred
- Strike and dip of bedding—facing known; vertical, facing known; overturned; facing unknown; vertical, facing unknown
- Strike and dip of compositional banding—in sedimentary rocks; in igneous rocks
- Strike and dip of cleavage of unspecified type or relative age; vertical
- Type of cleavage—slaty, crenulation
- Fold hinge, with plunge and dip of axial surface; vertical axial surface

### RESPONSIBILITY DIAGRAM



AVB 1:50 000 regional mapping  
 AVB Reconnaissance and/or traverse mapping  
 PFC Collins, P.F.C., 1983. Geology and Mineralization of the Cleveland Mine, Western Tasmania. Unpubl. Ph.D. Thesis, Univ. of Tas.  
 P.C. Crossman, P., 1980. The Volcanics of the Headwood River Complex. Unpubl. B.Sc. Thesis, Univ. of Tas.  
 Information supplied by Comstaff Pty Ltd on a scale of 1:50 000  
 M.J.R. Rubenach, M.J., 1973. The Tasmanian Ultramafic-Gabbro and Ophiolite Complex. Unpubl. B.Sc. (Hons.) Thesis, Univ. of Tas.  
 E.W. and N.J.T. Williams, E., and Turner, N., 1974. Geological Atlas 1:250 000 Series. Sheet 56-55/3 Burnie.



LOCALITY MAP

FIG. 2

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