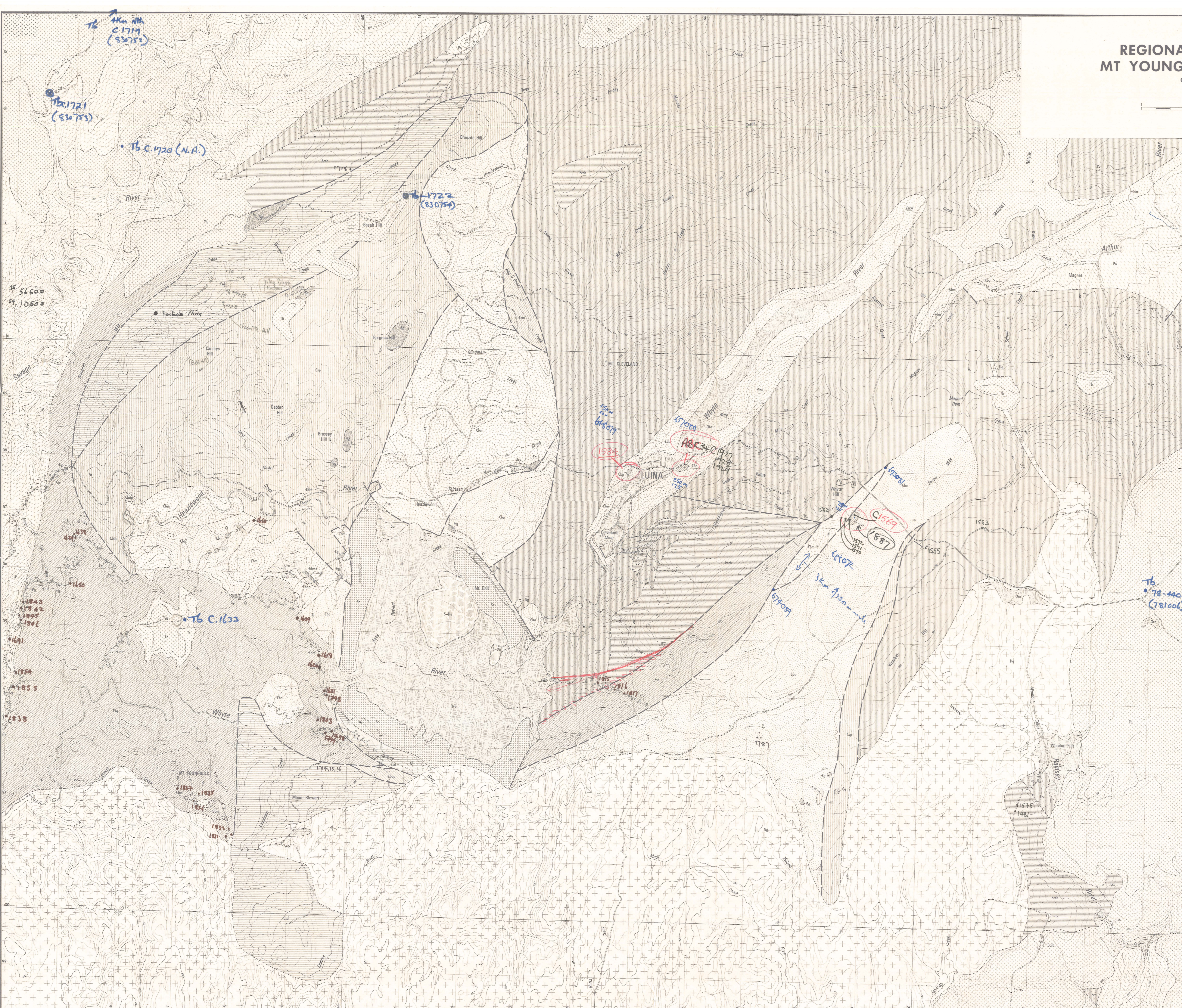
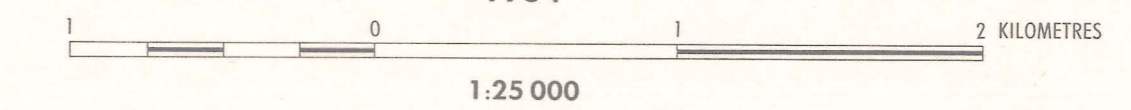


REGIONAL GEOLOGY OF THE MT YOUNGBUCK — MAGNET AREA

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



REFERENCE

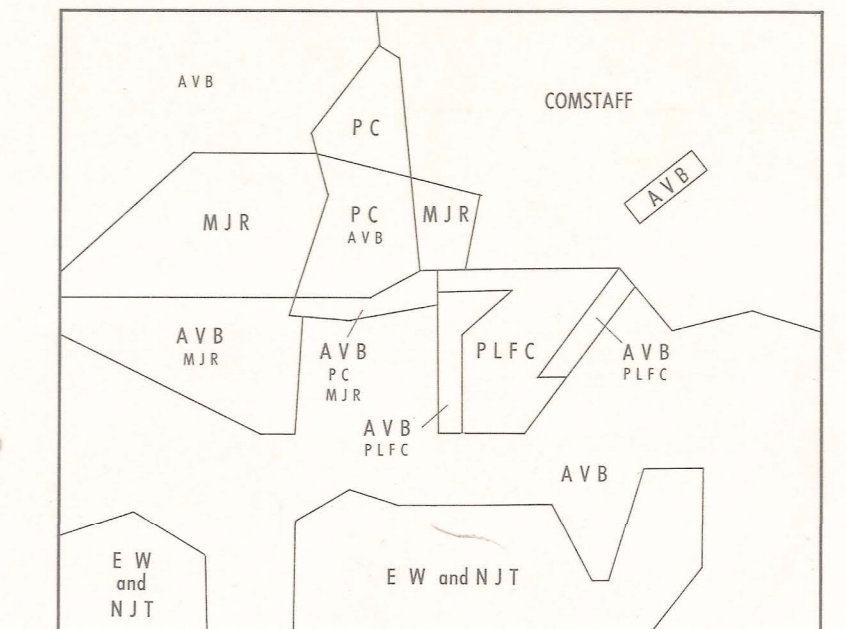
QUATERNARY	Qm	Marsh and swamp deposits; alluvium; river gravels.
TERTIARY	Ta	Erosional Break
	Ts	Ts - Sand, silt and volcanic breccia.
	Tc	Tc - Tholeiitic and alkali olivine basalt.
DEVONIAN	Ds	Ds - Sediments and conglomerate; siltstone indicated (Txs).
	Du	Du - Sediments
SILURIAN	Ss	Angular Unconformity
	Su	Siltstone, mudstone and calcareous siltstone (correlate of the Amber Formation).
ORDOVICIAN	Os	Quartz sandstone with minor mudstone and granule conglomerate (correlate of the Crilly Formation).
	Ou	Limestone and impure limestone with variable texture (correlate of the Gordon Limestone).
EOCAMBRIAN	Ec	Quartzite and minor mudstone.
	Eg	Erosional Break
PRECAMBRIAN	Ep	Volcaniclastic lithoclastic, siltstone, mudstone and tholeiitic basalt (correlate of the Crooked Creek Formation). Areas of dominantly basalt indicated (Tsb).
	Ew	Quartzite and minor mudstone (possible correlate of the Success Creek Formation).
PRECAMBRIAN	Es	Angular Landscape Unconformity
	Eo	Indurated quartz sandstone, siltstone and mudstone (correlate of the Oenah Formation).
PRECAMBRIAN	Ew	Schistose quartz sandstone, siltstone and mudstone (correlate of the 'Whyte Schist').
	Ew	Schistose quartz sandstone, siltstone and mudstone (correlate of the 'Whyte Schist').

Igneous Rocks

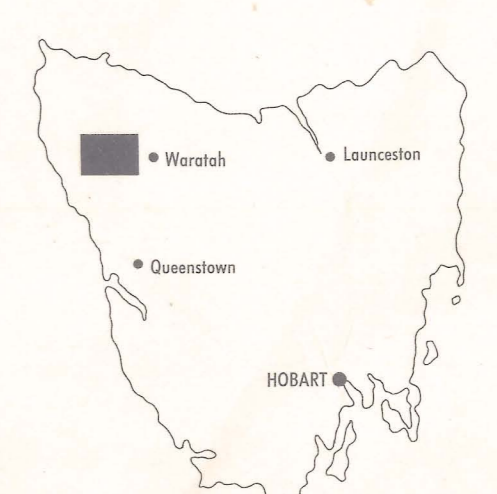
TERTIARY	Ts	Tholeiitic and alkali olivine basalt.
DEVONIAN	Dg	Paraphyritic fine to coarse-grained biotite granite/odolite
	Dg	Fine to coarse-grained gabbro
	Dg	Massive ultramafic cumulate.
CAMBRIAN	Cm	Massive and pillow aphyric basalt flows, commonly brecciated (low-titanium Tholeiitic). Individual flows graded from coarse-grained base to pillow tops. Interbedded sandstone and siltstone indicated (SIS) Cms.
	Cm	Paraphyritic (orthopyroxene, chrome), high-magnesium andesite, commonly with pillow and basalt flows. Associated coarse-grained pyroxenite (N) Cmp.
	Cm	Tonalite and associated rocks.
	Cm	Serpentinized, layered peridotite and pyroxenite. Serpentinized melange indicated (S) Cm.
CAMBRIAN	Cm	Serpentinized dunite with areas of interlayered pyroxene-bearing dunite.
	Cm	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; overthrown; facing unknown; vertical, facing unknown.
- Strike and dip of cleavage of unspaced 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 1:100 000 regional mapping
 AVB Reconnaissance and/or traverse mapping
 PLFC Collins, P.L.F., 1983. Geology and Mineralization of the Cleveland Mine, Western Tasmania. Unpubl. Ph.D. Thesis, Univ. of Tas.
 PC Crumrine, P., 1980. The Volcanics of the Headwood River Complex. Unpubl. D.Sc. Thesis, Univ. of Tas.
 COMSTAFF Information supplied by Comstaff Pty Ltd on a scale of 1:50 000
 MJR Rubenack, M.J., 1973. The Tasmanian Ultramafic-Gabbro and Ophiolite Complexes. Unpubl. B.Sc. (Hons.) Thesis, Univ. of Tas.
 E W and NJT Williams, E., and Turner, N., 1974. Geological Atlas 1:250 000 Series. Sheet SK-55/3 Burnie.



LOCALITY MAP