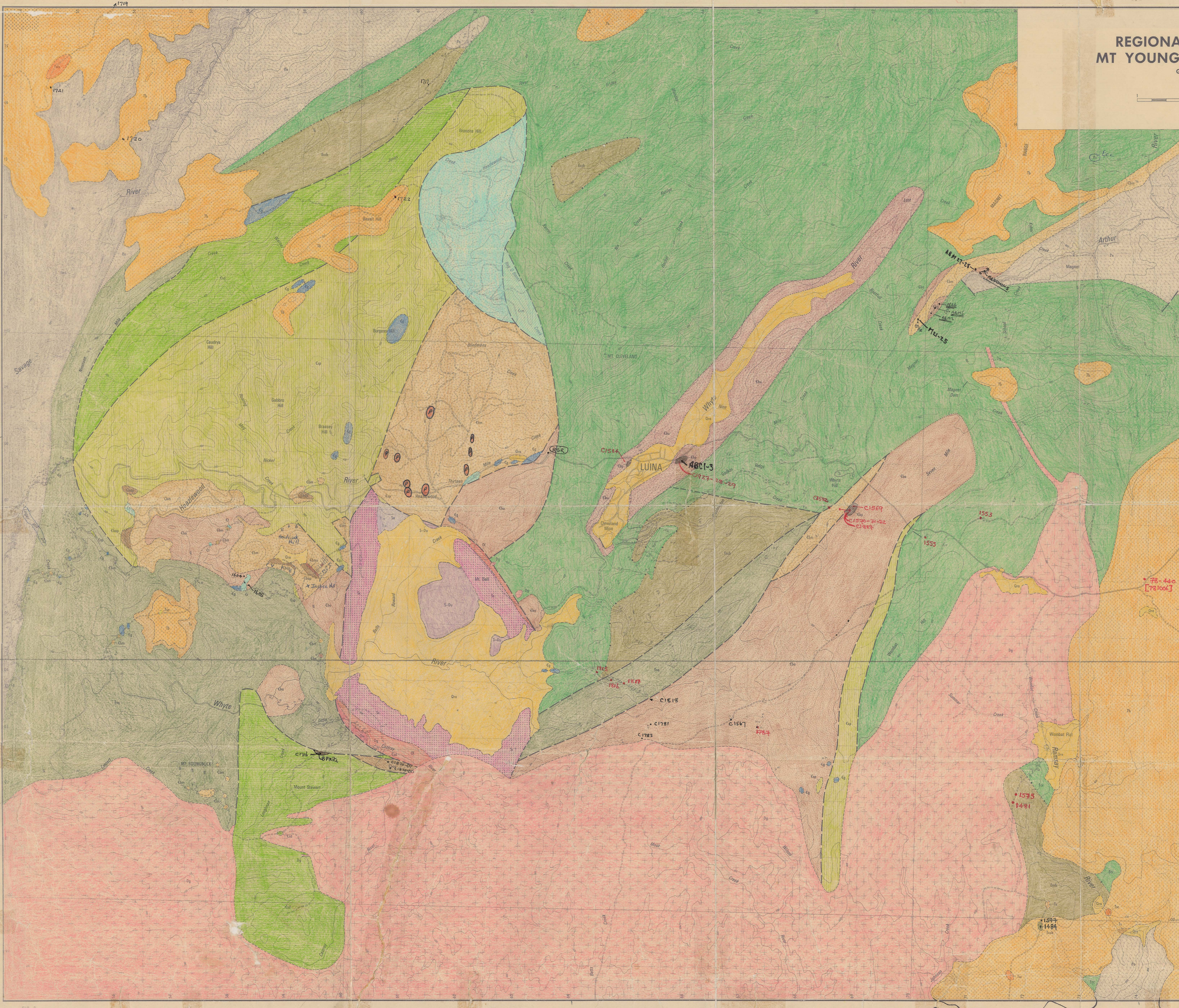


# REGIONAL GEOLOGY OF THE MT YOUNGBUCK — MAGNET AREA

Geology and compilation by  
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1984



### REFERENCE

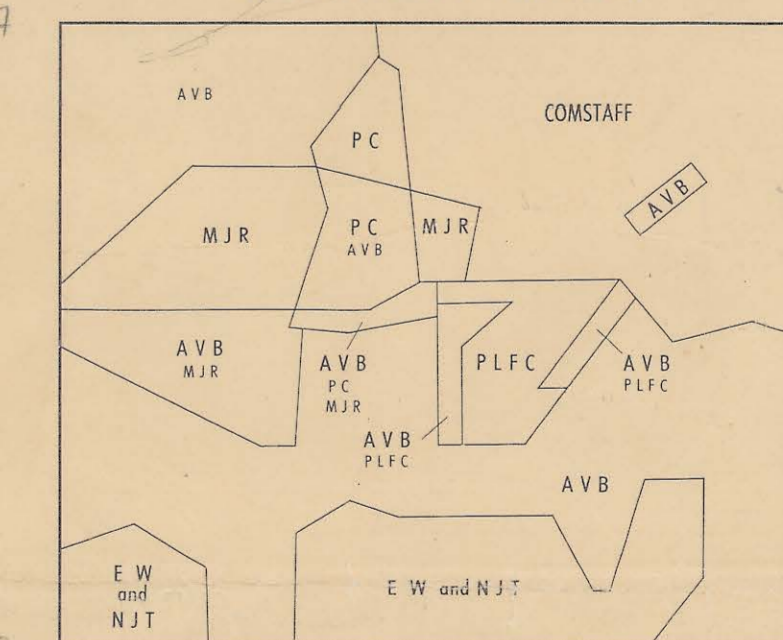
QUATERNARY	Qm	Marsh and swamp deposits; alluvium; river gravels.
	Qe	Erosional Breck
TERTIARY	Ta	Sand, silt and volcanic breccia.
	Tb	Tholeiitic and alkali alvino basalt.
	Ts	Sediments and conglomerate, siltate indicated (Tsc).
	Ts	Sediments
		Angular Unconformity
DEVONIAN	Ds	Siltstone, mudstone and calcareous siltstone (correlate of the Amber Formation).
	Da	Quartz sandstone with minor mudstone and granule conglomerate (correlate of the Cratie Formation).
SILURIAN	Ss	Siltstone, mudstone and calcareous siltstone (correlate of the Amber Formation).
	Sa	Quartz sandstone with minor mudstone and granule conglomerate (correlate of the Cratie Formation).
ORDOVICIAN	Oi	Limestone and impure limestone with variable texture (correlate of the Gordon Limestone).
	Om	Quartzite and minor mudstone.
		Erosional Breck
EOCAMBRIAN	Eg	Volcanic andesite, siltstone, mudstone and tholeiitic basalt (correlate of the Crummin Creek Formation). Areas of dominantly basalt indicated @ecb.
	Eg	Quartzite and minor mudstone (possible correlate of the Success Creek Formation).
		Angular Landscape Unconformity
PRECAMBRIAN	Pw	Indurated quartz sandstone, siltstone and mudstone (correlate of the Donoh Formation).
	Pw	Schistose quartz sandstone, siltstone and mudstone (correlate of the Whyte Schist).

### Igneous Rocks

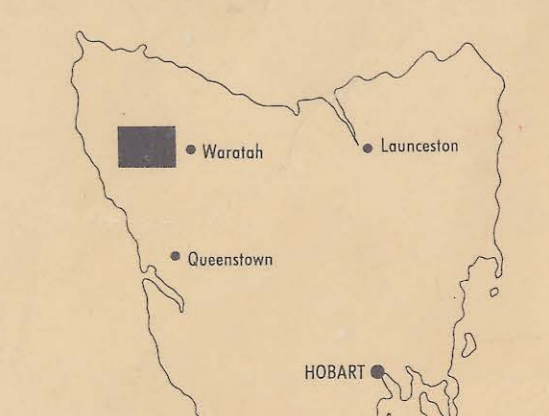
TERTIARY	Tb	Tholeiitic and alkali alvino basalt.
DEVONIAN	Dg	Porphyritic fine to coarse-grained biotite granite/adamellite.
	Dg	Fine to coarse-grained gabbro.
		Massive ultramafic cumulate.
CAMBRIAN	Cm	Massive and pillow aphyric basalt flows, commonly brecciated (low-titanium tholeiitic). Individual flows graded from coarse-grained base to pillow tops. Interbedded sandstone and siltstone indicated @cm.
	Cm	Porphyritic (orthopyroxene + chromite), high-magnesium andesite, commonly with pillow and basaltic flows. Associated coarse-grained pyroxene-bearing gabbro @cm.
	Cm	Tonalite and associated rocks.
	Cm	Serpentinized, layered peridotite and pyroxenite. Serpentinized melange indicated @cm.
	Cm	Serpentinized dunite with areas of interlayered pyroxene-bearing opelite.

- 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—stair, translation
- Fold hinge, with plunge and dip of axial surface; vertical axial surface.

### RESPONSIBILITY DIAGRAM



AVB 1:100 000 regional mapping  
 AVB Reconnaissance and/or terrain mapping  
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LOCALITY MAP