

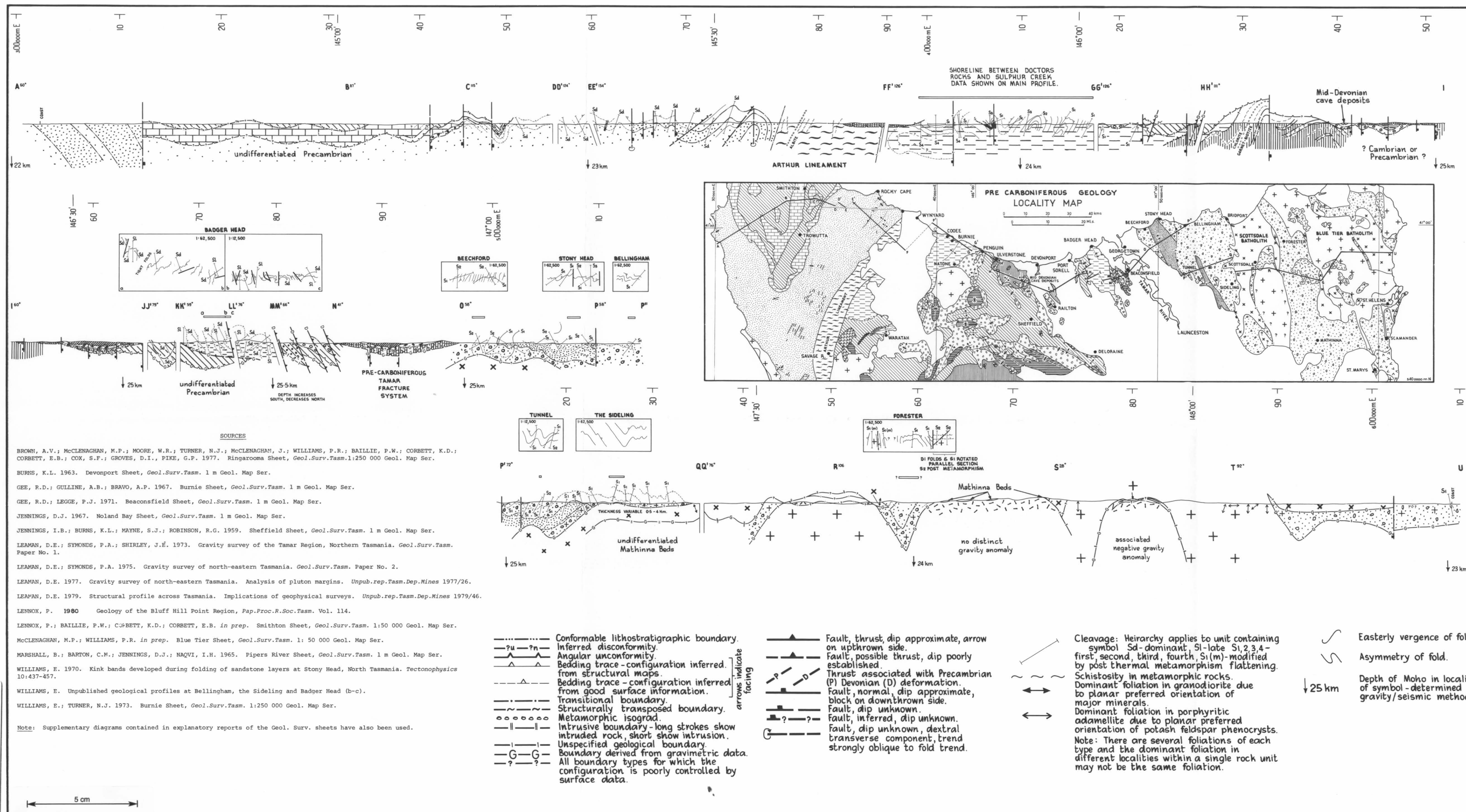


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Composite geological profile across Tasmania

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TASMANIA DEPARTMENT OF MINES



COMPOSITE GEOLOGICAL PROFILE ACROSS TASMANIA

SCALE 1:250,000 V=H

The profile is supplementary to Williams, E., 1976, Structural map of Precambrian rocks of Tasmania, Geol. Surv. Tasm., and the reference and locality map are partly after that work. The reference is general for Tasmania. Ornamental boxes are rock units represented on the profile. Text in box brackets refers specifically to the profile.

SEDIMENTARY/VOLCANIC ROCKS

QUATERNARY TO PLEISTOCENE
Alluvium, etc. (Holocene). Glacial and associated deposits, talus, aeolian sands, marginal marine deposits (Pleistocene) marine deposits (Pliocene).
Erosion surface.

MIOCENE TO LATE CRETACEOUS
1. Non-marine clastic sequences with intercalated basalts, pyroclastics.
2. Marine clastic sequences.

MID-CRETACEOUS
Andesite. (small occurrence at Cape Portland N.E. Tas.)

JURASSIC
Low angle unconformity related to warping (of older rocks) associated with Jurassic to Early Tertiary normal faulting.

TRIASSIC TO LATE CARBONIFEROUS
Fluvio-lacustrine sequence (mostly Triassic); glacio-marine sequence (Permian); thin non-marine sequence (Permian); glacio-marine sequence with basal tillite. (Late Carboniferous, to Early Permian).

INTRUSIVE IGNEOUS ROCKS

Appinite, syenite.
Dolerite and related rock types.

WEST OF TAMAR RIVER

SEDIMENTARY/VOLCANIC ROCKS
Terrestrial cave deposits. (441000 E)
Angular unconformity.
Stable shelf deposits: 1. Interbedded quartz sandstone and mudstone; 2. Predominantly shallow water limestone; 3. Shallow marine and terrestrial quartz sandstone and conglomerate; 4. Volcaniclastic sequences and calcareous quartzwacke turbidite/mudstone sequences.
NB: 1&2 undifferentiated on locality map.

INTRUSIVE IGNEOUS ROCKS
Rb-Sr (T.R. b.m. 353-7-375-7my. $\oplus$ Mainly adamellite

SEDIMENTARY ROCKS
1. Micaceous quartzwacke turbidite/mudstone sequence. 2. Predominantly mudstone. Thermal metamorphism indicated by crosses. (+)

EAST OF TAMAR RIVER

GRANITIC ROCKS (N.E. TAS.)
Regional deformation (mild)
364-374my $\oplus$ Alkaligranite.
? 368-382my $\oplus$ Adamellite.
Regional deformation (mild, locally more intense).
377-398my $\oplus$ Granodiorite.
Hypersthene adamellite porphyry.
Main deformation.

NOTES ON PROFILE

Inferred configurations of geological surfaces shown in the profile are consistent with structural data given on the source maps and on small scale maps in explanatory notes. In some rock units the fold wave-lengths are short relative to the density of data along the profile line. Therefore, the inferred configurations are fairly speculative and are shown as being poorly controlled by surface data.

Deviations and offsets of profile lines are indicated by upper case letters A-U. Adjacent bearings indicate trend of profile line to east of symbol.

Approximate relative position of detailed structural map on line of main profile. Positions determined by projection along bedding strike lines (fold plunges gentle to zero). Allowance made for N side E transverse faults in Badger Head region.

TASMANIAN DEPT. OF MINES

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