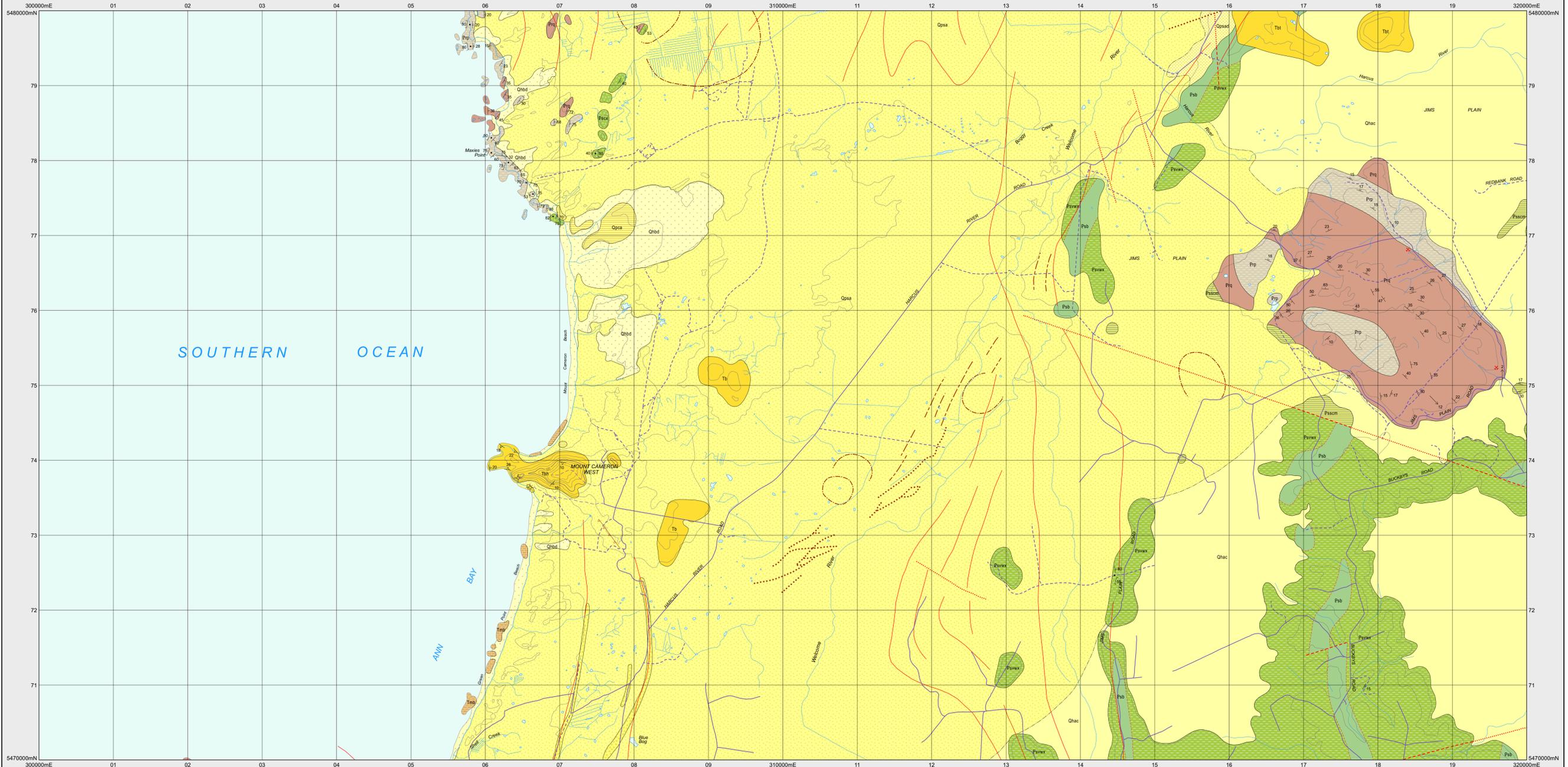


# CAMERON

Scale 1:25 000



SOUTHERN OCEAN

MOUNT CAMERON WEST

NEOPROTEROZOIC - PALEOGENE - NEOCENE

**IGNEOUS ROCKS**

**Tb** Basalt lava (Tb); olivine tholeiite (Tbt); hawaitite (Tbh).

**Psb** Massive and minor amygdaloidal, dominantly tholeiitic basalt (Psb). (Correlate of Spinks Creek Volcanics).

**CONTACTS**

- Geological contact.
- Geological contact - inferred from magnetic data.
- Transitional geological contact.
- Limit of detailed mapping.

**FAULTS**

- Fault - inferred from magnetic data.
- Fault - concealed, inferred from magnetic data.

**LINEARS**

- Crest of remnant old stabilised longitudinal dune.
- Margin of relict lunette and associated swamp.
- Trend of relict beach ridge related to regressive strandlines of Last Interglacial Stage.
- Trace of old sea-cliff related to elevated seallevel of Last Interglacial Stage.
- Lineament - visible in magnetic data.

Strike and dip of bedding - facing known; unknown.

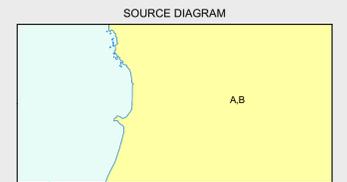
Strike and dip of primary igneous flow banding; vertical.

Strike and dip of cleavage, type and relative age unspecified.

Trend and plunge of hinge line of minor fold, relative age unspecified; with dip direction and dip of axial surface.

Field station for adjacent readings on the map.

Construction material/industrial mineral/gemstone location.



**QUATERNARY**

**Qhac** Alluvium and colluvium - including alluvial deposits of sand, clay-rich sand or gravel; talus and slope-wash deposits; swamp deposits of sand, clay and peat; and deposits rich in chert lag derived with associated soil from underlying Proterozoic dolomite sequences. (Qhac).

**Qhbd** Younger active dune and beach sand and beach gravel (Qhbd).

**Qpsa** Aeolian calcarenite, partially lithified, showing dune cross-bedding (Qpsa).

**Qpsad** Older stabilised aeolian sand of predominantly coastal plain, with underlying marine sands in places; may show relict landforms including terraces, hummocks, linear or barchan dunes, and beach ridges related to regressive strandlines of Last Interglacial Stage (Qpsa); some areas with preserved relict barchan dune forms indicated (Qpsad).

**Qpsg** Gravel deposits of probable strandline origin, probably related to higher seallevel during Last Interglacial Stage (Qpsg).

**Qpsg** Erosional Surface.

**NEOCENE**

**Tb** Basalt lava (Tb); olivine tholeiite (Tbt); hawaitite (Tbh). At Mt. Cameron West, Tbh with K-Ar geochronological age  $14.5 \pm 2$ Ma,  $15.5 \pm 2$ Ma overlies Tbt.

**Tmb** Bioclastic shallow marine limestones, of Early Miocene (U. Longfordian to Balesfordian) isotatigraphic age (Tmb).

**NEOPROTEROZOIC**

**Psbw** Interbedded lithic wacke (massive to well bedded, turbiditic and/or mafic volcanoclastic in part), laminated siltstone/mudstone, and minor polymict lithic conglomerate; includes some occurrences of coarse breccia or miltite with clasts of mafic volcanic rocks (Psbw). (Correlate of Keppel Creek Formation, may include some equivalents of Crokes Hill Member).

**Psb** Massive and minor amygdaloidal, dominantly tholeiitic basalt (Psb). (Correlate of Spinks Creek Volcanics).

**Pscm** Massive to banded or mottled, black, white and grey chert (after shallow marine carbonate), with subordinate interbedded laminated black mudstone, and with preserved oolitic and stromatolitic textures in places (Pscm). (Correlate of Black River Dolomite).

**Pscx** Monoclinic (with dominantly quartzarenite clasts) and minor polymict, massive coarse lithic breccia, and bedded lithic conglomerate with subordinate cross-laminated quartzarenite (Pscx). (Correlate of Forest Conglomerate and Quartzite).

**EROSIONAL AND TRANSGRESSIVE SURFACE; LOW ANGLE UNCONFORMITY AT SOME LOCALITIES.**

**PROTEROZOIC**

**Erd** Well-bedded, cross-bedded, mostly fine-grained orthoquartzite and subordinate siltstone (Detention Subgroup) (Erd).

**Prq** Pale weathering, variably silicified quartzarenite, well bedded and commonly with cross-lamination of trough and planar-tabular types and oscillation ripple bedforms, and with minor horizons of laminated siltstone; total influence suggested by bed to bed reversals of cross-lamination polarity in some sections (Prq).

**PMESOPROTEROZOIC**

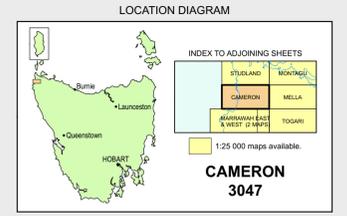
**Prp** Mid to dark grey, thin-bedded laminated siltstone and mudstone, with minor thin interbeds of cross-laminated and oscillation ripple-marked quartzarenite in some places (Prp); laminated dolomitic mudstone in some areas (Prpds).

- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg. 1:25 000 map or equivalent detail).
- Regional systematic (eg. 1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance mapping with sparse ground traverses.
- Remote sensing and/or geophysical interpretation with limited or no ground information.

Compiled by D.B. Seymour, B.Sc.(Hons), PHD, 2001 from the following sources (see source diagram):

A SEYMOUR, D.B., BAILLIE, P.W. 1992. Geological Atlas 1:50 000 Series. Sheet 7816S Woodnorth, Tasmanian Department of Mines.

B D.B. Seymour, 2001. Interpretation of aerial photographs and airborne magnetic radiometric data collected under the Western Tasmanian Regional Minerals Program, 2001.



**REFERENCE THIS MAP AS:**  
SEYMOUR, D.B. (compiler) 2001. Digital Geological Atlas 1:25 000 Scale Series, Sheet 3047 Cameron, Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

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