Department of State Growth
MINERAL RESOURCES TASMANIA

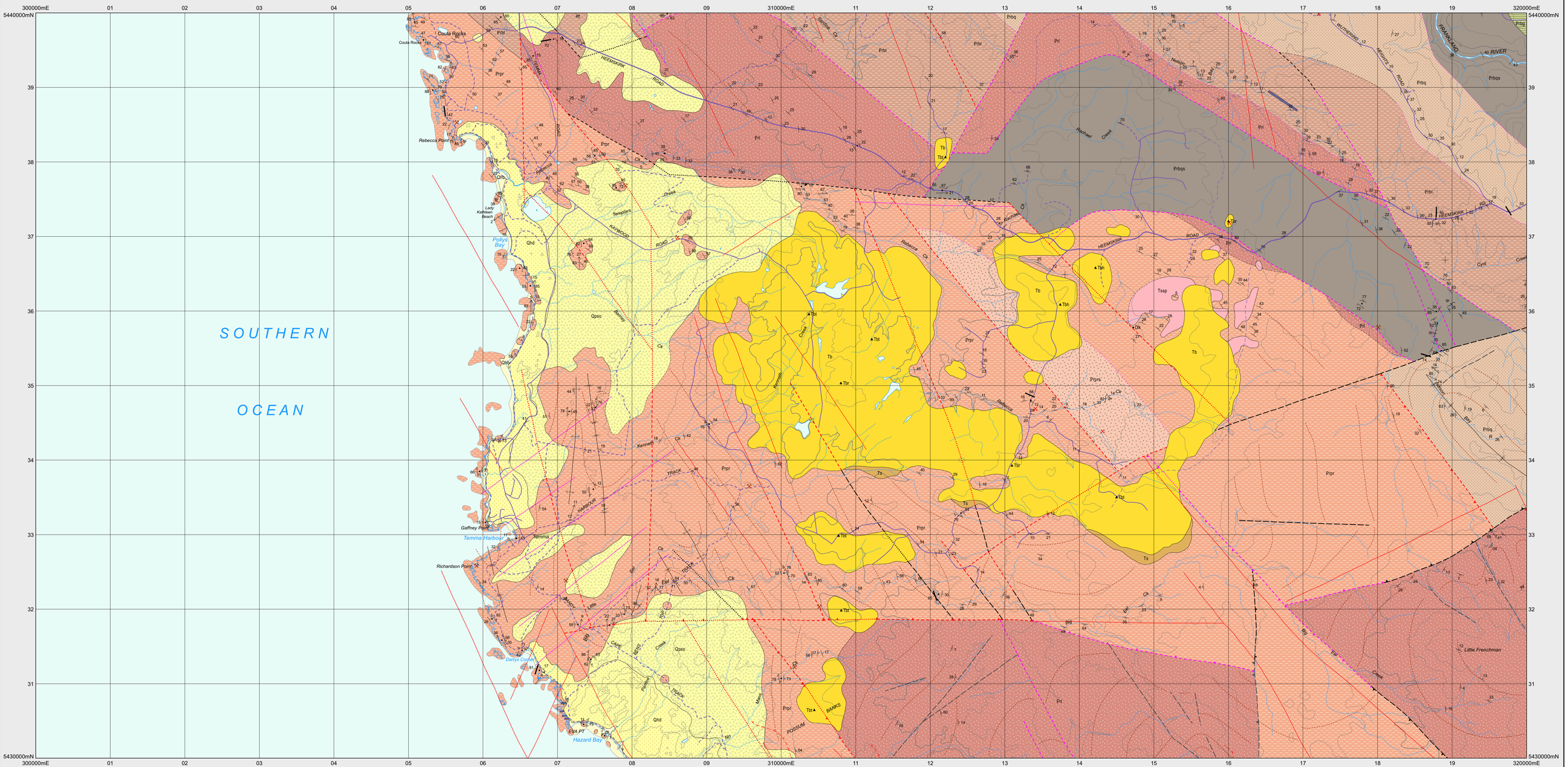
DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
TEMMA, SHEET 3043

TEMMA

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government



CENOZOIC

QUATERNARY – HOLOCENE

- **Qhb** — *Beach sand (Qhb).*
- **Qhd** — *Dune sand (Qhd).*

PLEISTOCENE

- **Qpso** — *Older aeolian sand and sand dunes (Qpso).*

Erosional surface.

PALEOGENE - NEOGENE

- **Tb** — *Basalt (Tb); olivine tholeiite (Tbt), transitional olivine basalt (Tbr) and hawaiite indicated (Tbh).*
- **Ts / Tssp** — *Dominantly non-marine sequences of gravel, sand, silt, clay and regolith (Ts); sponge-spicule rich bioclastic marine chert (colloquially termed 'spongolite') and minor silicified bioclastic limestone with marine macrofossils (Tssp).*

Angular unconformity.

MESOPROTEROZOIC

ECTASIAN (?)

- **Ꝑrbg** — *Dominantly plane-laminated chloritic mudstone to siltstone, containing variably disseminated porphyroblastic chlorite (Ꝑrbg).*
- **Ꝑrbqs** — *Mid-dark grey, thin bedded, massive to plane-laminated siltstone with minor pale grey (quartzose) laminae (Ꝑrbqs).*
- **Ꝑrbq** — *Interbedded packages of quartzose sandstone to siliceous siltstone and laminated carbonaceous shale (Ꝑrbq).*
- **Ꝑrbl** — *Siliceous (pale grey) to ?carbonaceous (dark grey) siltstone, commonly with pervasive wavy lamination to small-scale trough cross-lamination, with finely developed alternation of pale and dark laminae; may show erosional gutters and/or erosional scour at base of some beds, and clastic dykes; quartzose laminae may reach fine sand grade, and some sections include minor packets of pale grey thin-bedded fine-grained quartz sandstone (Ꝑrbl).*

BALFOUR SUBGROUP

- **Ꝑri** — *Medium grained, trough cross-bedded to parallel-bedded quartzose sandstone, and rare angular quartz-pebble conglomerate and shale (Ꝑri). (Lagoon River Quartzite).*
- **Ꝑrpr / Ꝑrprs** — *Dominantly siltstone of varied facies; upper sequences dominantly wavy-to cross-laminated finely alternating siliceous and ?carbonaceous siltstone similar to unit Ꝑrbl, merging downward into more varied sequence - typically interbedded mid-dark grey siltstone and pale grey quartz siltstone - fine sandstone, which may show planar-parallel bedding, well developed erosional gutters, clastic dykes, and grading, cross-lamination and lensing of the quartz-rich beds (Ꝑrpr). Sections up to 300m thick, rich in cross-bedded quartz sandstone, occur throughout the formation, and some are distinguished (Ꝑrprs). (Ꝑrpr, Ꝑrprs: Pedder River Siltstone).*

ROCKY CAPE GROUP

IGNEOUS ROCKS

CENO-ZOIC — PALEO-CENE - NEOGENE

- **Tb** — *Basalt (Tb); olivine tholeiite (Tbt), transitional olivine basalt (Tbr) and hawaiite indicated (Tbh).*
- **• Dlk** — *Alkali dolerite of uncertain age, consisting of K-feldspar phenocrysts in an altered fine-grained groundmass (Dlk) (at 314710mE, 5435790mN).*

?NEOPROT-EROZOIC — PALEO-ZOIC (?) — DEVO-NIAN (?)

- **Ꝑmd** — *Dolerite dykes (Ꝑmd).*

CONTACTS

- *Geological contact.*
- *Geological contact - inferred.*
- *Geological contact - inferred from radiometric data.*
- *Limit of mapping of sub-unit within undifferentiated rock unit.*
- *Limit of detailed mapping.*

FAULTS

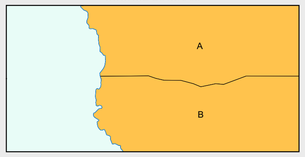
- *Fault.*
- *Fault - inferred.*
- *Fault - concealed.*
- *Fault - inferred from magnetic data.*
- *Fault - concealed, inferred from magnetic data.*
- *Fault - inferred from radiometric data.*
- *Fault - concealed, inferred from radiometric data.*
- *Fault - based on interpretation of aerial photographs.*
- *Thrust fault (teeth on upper plate).*
- *Thrust fault (teeth on upper plate) - inferred from magnetic data.*
- *Thrust fault (teeth on upper plate) - concealed, inferred from magnetic data.*
- *Thrust fault (teeth on upper plate) - inferred from radiometric data.*
- *Thrust fault (teeth on upper plate) - concealed, inferred from radiometric data.*
- *Thrust fault (teeth on upper plate) - based on interpretation of aerial photographs.*

LINEARS

- *Axial surface trace of major antiform.*
- *Axial surface trace of major synform.*
- *Lineament - visible in magnetic data.*
- *Lineament - visible in radiometric data.*
- *Magnetic gradient or lineament (direction towards lower values indicated).*
- *Lithological trend line, including bedding trace interpreted from aerial photographs.*

- *Strike and dip of bedding: facing known - right way up; facing unknown; horizontal.*
- *Strike and dip of cleavage: type and relative age unspecified; relative local age S_1; crenulation.*
- *Trend and plunge of hingeline of minor fold, unspecified relative age; with dip and dip direction of axial surface indicated; vertical axial surface.*
- *Trend and plunge of hingeline of minor fold, relative local age F_2.*
- *Strike and dip of outcrop-scale fault of unspecified relative age, type unspecified; vertical.*
- *Strike and dip of dyke or vein, rock type or mineral specified in digital data; vertical. Quartz vein (qv).*
- *Field station for adjacent readings on the map.*
- *Notable small outcrop with rock unit indicated.*
- *Notable small float or lag occurrence with rock unit indicated.*
- *Mineral deposit location - hardrock.*
- *Construction material/industrial mineral/gemstone location.*

SOURCE DIAGRAM



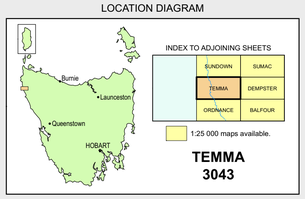
- Highly detailed (eg. more detailed than 1:25 000 scale mapping).
- Detailed systematic (eg.1:25 000 map or equivalent detail).
- Regional systematic (eg.1:50 000, 1:63 360 map or equivalent detail).
- Regional mapping less detailed than 1:63 360 map or equivalent (all other scales).
- Reconnaissance 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), Ph.D. and A.R. Reed, B.Sc.(Hons), Ph.D. 2003 from the following sources (see source diagram):

A SEYMOUR, D.B., new 1:25,000 scale mapping 1998-1999, augmented by interpretation of airborne magnetic and radiometric data and interpretation of aerial photographs.

B REED, A.R., new 1:25,000 scale mapping 1998-1999, augmented by interpretation of airborne magnetic and radiometric data and interpretation of aerial photographs.

LOCATION DIAGRAM



REFERENCE THIS MAP AS:

SEYMOUR, D.B. and REED, A.R. (compilers) 2003. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3043 Temma. 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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Map generated: 23-OCT-2023

WARNING: INKS ARE LIGHT SENSITIVE.