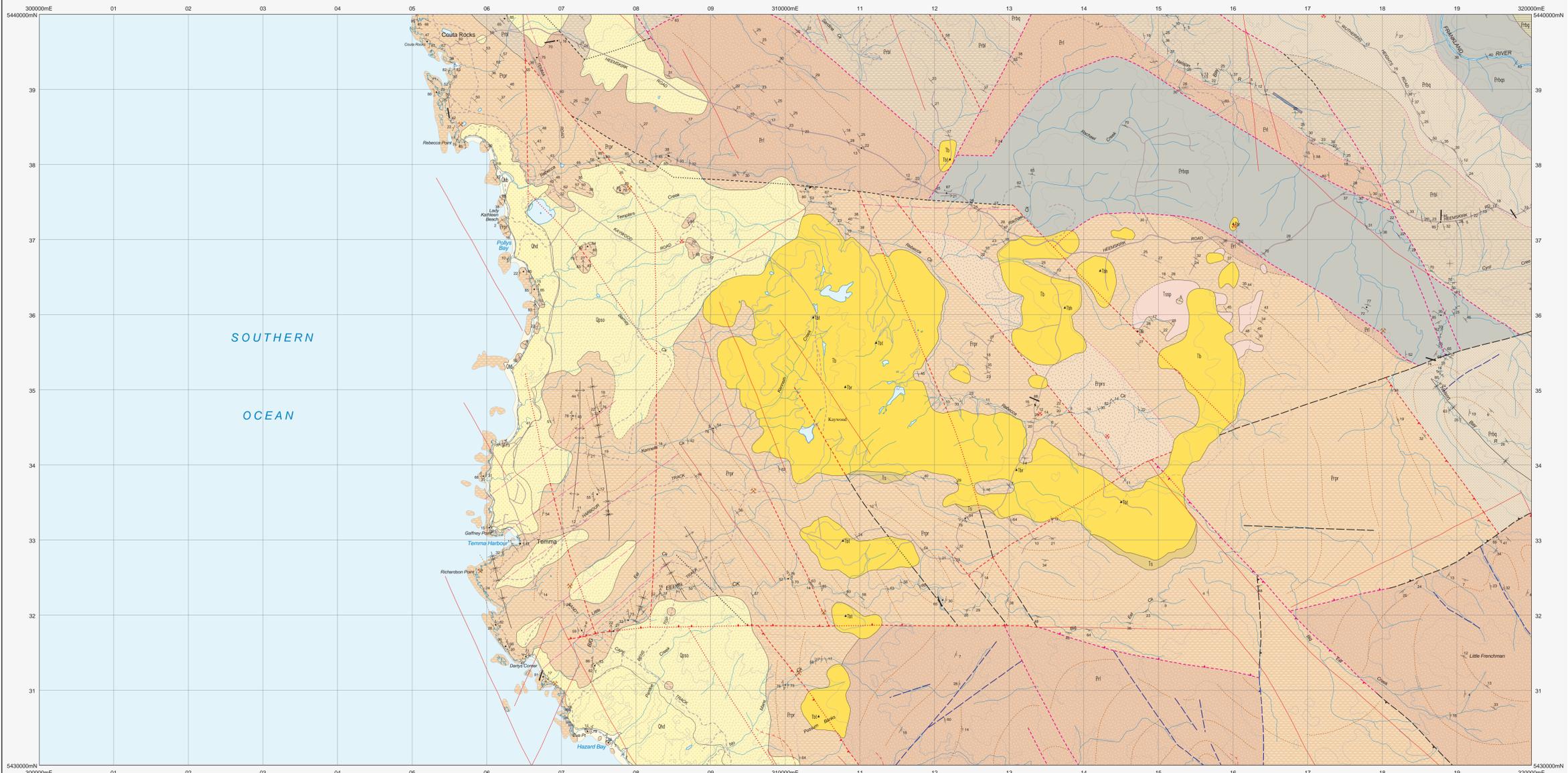


TEMMA

Scale: 1:25 000



PERIOD	UNIT	DESCRIPTION
QUATERNARY	Qhb	Beach sand (Qhb).
	Qhd	Dune sand (Qhd).
	Qpsd	Old aeolian sand and sand dunes (Qpsd).
	Er	Erosional surface.
PALEOCENE - NEOGENE	Tb	Basalt (Tb), olivine tholeiite (Tbt), transitional olivine basalt (Ttr) and basaltic andesite (Tba).
	Ts	Dominantly non-marine sequences of gravel, sand, silt, clay and regolith (Ts); coarse-grained bioclastic marine chert (colloquially termed 'spongelite') and minor silicified bioclastic limestone with marine microfossils (Tsp).
MESOPROTEROZOIC	Erbg	Dominantly plane-laminated chloritic mudstone to siltstone, containing variably disseminated porphyroblastic calcite (Erbg).
	Erbq	Mid-dark grey, thin bedded, massive to plane-laminated siltstone with minor pale grey (quartzose) laminar (Erbq).
	Erbk	Interbedded packages of quartzose sandstone to siliceous siltstone and laminated carbonaceous shale (Erbk).
	Erbt	Siltstone (pale grey) to carbonaceous (dark grey) siltstone, commonly with pervasive wavy lamination to small-scale trough cross-lamination, with finely developed alteration of pale and dark laminae, may show resistant ridges and/or scarping at base of some beds, and diastolic dykes; quartzose laminae may reach fine sand grade, and some sections include minor pockets of pale grey thin-bedded fine-grained quartz sandstone (Erbt).
	Ert	Medium grained, trough cross-bedded to parallel-bedded quartzose sandstone, and rare argillaceous quartz-siltstone conglomerate and shale (Ert). (Lagoon River Quartzite).
	Epr	Dominantly siltstone of varied facies; upper sequences dominantly wavy-to cross-laminated finely alternating siliceous and carbonaceous siltstone similar to unit Erbq, merging downward into more varied facies; typical interbedded mid-dark grey siltstone and pale grey quartz siltstone - fine sandstone, which may show parallel bedding, and developed erosional gullies; diastolic dykes, and grading, cross-lamination and lensing of the quartz-rich beds (Epr). Sections up to 200m thick, rich in cross-bedded quartz sandstone, occur throughout the formation, and some are distinguished (Eprsr, Eprtr, Eprtrr; Pedder River Siltstone).

PERIOD	UNIT	DESCRIPTION
?NEOPROT.-PALEO- CENO- EROZOIC	Tb	Basalt (Tb), olivine tholeiite (Tbt), transitional olivine basalt (Ttr) and basaltic andesite (Tba).
	Ts	Dominantly non-marine sequences of gravel, sand, silt, clay and regolith (Ts); coarse-grained bioclastic marine chert (colloquially termed 'spongelite') and minor silicified bioclastic limestone with marine microfossils (Tsp).
DEVONIAN - PALEOZOIC	Erbg	Dominantly plane-laminated chloritic mudstone to siltstone, containing variably disseminated porphyroblastic calcite (Erbg).
	Erbq	Mid-dark grey, thin bedded, massive to plane-laminated siltstone with minor pale grey (quartzose) laminar (Erbq).
NEOZOIC	Erbk	Interbedded packages of quartzose sandstone to siliceous siltstone and laminated carbonaceous shale (Erbk).
	Erbt	Siltstone (pale grey) to carbonaceous (dark grey) siltstone, commonly with pervasive wavy lamination to small-scale trough cross-lamination, with finely developed alteration of pale and dark laminae, may show resistant ridges and/or scarping at base of some beds, and diastolic dykes; quartzose laminae may reach fine sand grade, and some sections include minor pockets of pale grey thin-bedded fine-grained quartz sandstone (Erbt).
MESOPROTEROZOIC	Ert	Medium grained, trough cross-bedded to parallel-bedded quartzose sandstone, and rare argillaceous quartz-siltstone conglomerate and shale (Ert). (Lagoon River Quartzite).
	Epr	Dominantly siltstone of varied facies; upper sequences dominantly wavy-to cross-laminated finely alternating siliceous and carbonaceous siltstone similar to unit Erbq, merging downward into more varied facies; typical interbedded mid-dark grey siltstone and pale grey quartz siltstone - fine sandstone, which may show parallel bedding, and developed erosional gullies; diastolic dykes, and grading, cross-lamination and lensing of the quartz-rich beds (Epr). Sections up to 200m thick, rich in cross-bedded quartz sandstone, occur throughout the formation, and some are distinguished (Eprsr, Eprtr, Eprtrr; Pedder River Siltstone).

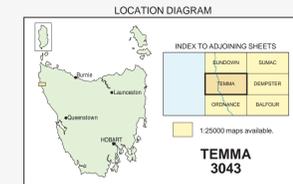
SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
- - -	Geological boundary - inferred.
---	Geological boundary - inferred from interpretation of airborne radiometric data.
- . - .	Fault - unspecified type, position accurate or approximate.
- - -	Fault - unspecified type, position accurate or approximate, based on interpretation of aerial photographs.
- - -	Fault - unspecified type, inferred.
- . - .	Fault - unspecified type, concealed.
- - -	Fault - unspecified type, inferred from airborne magnetic data.
- - -	Fault - unspecified type, concealed, inferred from airborne radiometric data.
- - -	Fault - unspecified type, concealed, inferred from airborne radiometric data.
- - -	Fault - unspecified type, concealed, inferred from airborne radiometric data.
- - -	Thrust fault - position accurate or approximate, teeth on upper plate.
- - -	Thrust fault - position accurate or approximate, teeth on upper plate, based on interpretation of aerial photographs.
- - -	Thrust fault - teeth on upper plate, inferred from airborne magnetic data.
- - -	Thrust fault - teeth on upper plate, concealed, inferred from airborne magnetic data.
- - -	Thrust fault - teeth on upper plate, concealed, inferred from airborne radiometric data.
- - -	Lineament visible in airborne radiometric data.
- - -	Lineament visible in airborne radiometric data.
- - -	Lithological trend line.
- - -	Magnetic gradient or lineament (direction towards lower values indicated).
- - -	Avial surface trace of major antiform.
- - -	Avial surface trace of major synform.
- - -	Limit of mapping.

SYMBOL	DESCRIPTION
+	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 S2 relative local age S2, crenulation).
+	Trend and plunge of hinge line of minor fold, unspecified relative age; with dip and dip direction of axial surface indicated; vertical axial surface.
+	Trend and plunge of hinge line of minor fold, relative local age F2.
+	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 unspecified in digital data.
+	Strike and dip of dominant joint set.
+	Field station for adjacent reading(s) on map.
+	Notable small outcrop with rock unit indicated.
+	Notable small fault or log occurrence, with rock type indicated.
+	Mineral deposit location - hardrock Resources Tasmania DEP02/15 data base. Data point position has not been verified in every case.
+	Construction materials/industrial mineral/gemstone location

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 responsibility diagram)

A SEYMOUR, D.B., new 1:25,000 scale mapping 1998-89, augmented by interpretation of airborne magnetic and radiometric data and interpretation of aerial photographs.

B REED, A.R., new 1:25,000 scale mapping 1998-89, augmented by interpretation of airborne magnetic and radiometric data and interpretation of aerial photographs.



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.

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Map produced by Spatial Information Services, Mineral Resources Tasmania using G.I.S. software.
Website: www.mrt.tas.gov.au
GDAX4 - MGA Zone 55. Contour Interval: 20 metres.



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