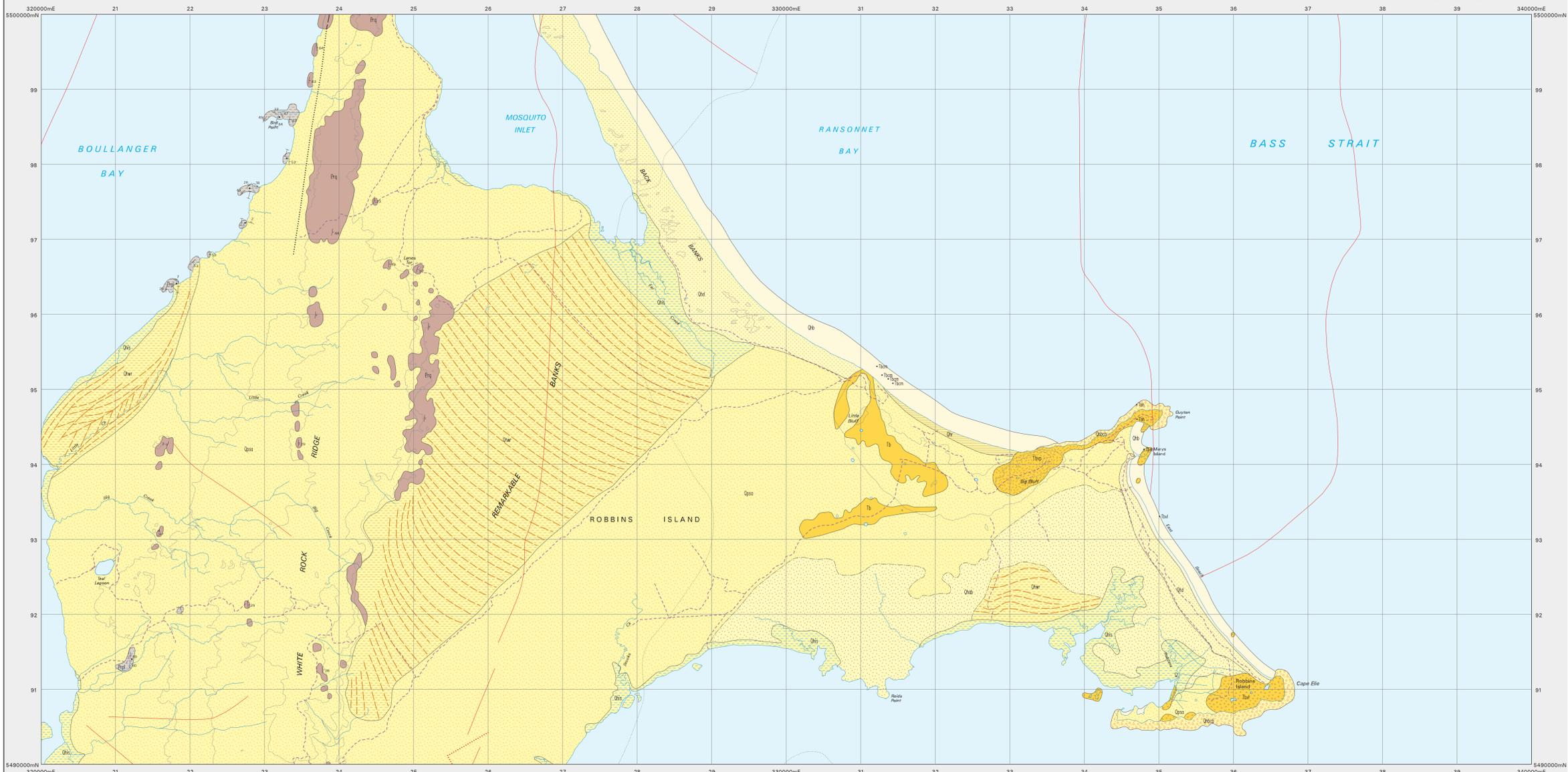


ROBBINS

Scale: 1:25 000



MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
ROBBINS, SHEET 3249



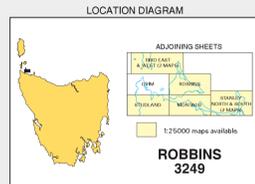
QUATERNARY	HOLOCENE
Qhb	Modern beach sand (Qhb).
Qhd	Modern dune sand (Qhd).
Qhbc	Cobble beach derived from Tertiary basalt (Qhbc).
Qhls	Paralic clay, silt, sand and minor gravel deposits of modern salt marsh and associated tidal flats (Qhls).
Qhr	Raised beach deposits (Qhr).
Qhr	Sand of stabilised longitudinal beach ridges (Qhr).
Qhs	Marsh and swamp deposits (Qhs).
Qsa	Older stabilised aeolian sand of predominantly coastal plain (Qsa).
EROSIONAL SURFACE	
Basalt and related volcanoclastic rocks (Tb). Outcrop of flow-foot breccia indicated (Tbcm).	
Massive basalt lava (Tbv). Locality of analysed sample with nepheline hawaitite composition indicated (Tbv).	
Flow lava with minor hyaloclastite breccia (Tvp). Localities of analysed samples with hawaitite composition indicated (Tvp).	
Bedded vitric tuff, may show cross-bedding, graded bedding or soft-sediment deformation (Tvt).	
Angular unconformity.	
Pale weathering, variably silicified quartzite, well bedded and commonly with cross-stratification of trough and planar-tabular types and occasional ripple bedforms, and with minor horizons of laminated siltstone; tidal influence suggested by bed to bed reversals of cross-stratification polarity in some sections (Erg).	
Dark grey to black, laminated siltstone-claystone with some thin (<1cm) graded beds, and some beds up to 30cm thick of fine-grained ripple-parallel sandy siltstone (Lower Petrie' sequence of Robbins Island, Walker Island, Big Sandy Petrie Inlet and Hunter Island) (Epp).	

TERTIARY	
Tbv	Massive basalt lava (Tbv). Locality of analysed sample with nepheline hawaitite composition indicated (Tbv).
Tvp	Flow lava with minor hyaloclastite breccia (Tvp). Localities of analysed samples with hawaitite composition indicated (Tvp).

—	Geological boundary - position accurate or approximate.
- - - - -	Geological boundary - transitional.
- · - · - ·	Geological boundary - concealed (Approximate concealed western and southern limit of Tb and related sequences, determined from airborne magnetic data).
- · - · - ·	Fault - unspecified type, position accurate or approximate.
- · - · - ·	Fault - unspecified type, concealed.
- · - · - ·	Fault - unspecified type, concealed, inferred from airborne magnetic data.
- · - · - ·	Lineament visible in airborne magnetic data.
- · - · - ·	Trends of older stabilised Holocene beach ridges.
·	Small outcrop or lag occurrence.

Strike and dip of bedding, right way up.
Strike and dip of bedding, facing unknown.
Strike and dip of cleavage, type and relative age unspecified - dipping, vertical.

Compiled by E.B. Seymour, B.Sc. Hon. Ph.D. 2006 from the following sources (see Responsibility Diagram):
A New 1:25,000 scale mapping 1997-2001 by W.D.M. Hall (Monash University, Melbourne) with modifications and additions by E.B. Seymour based on interpretation of aerial photography and airborne magnetic and paleomagnetic data collected under the Western Tasmanian Regional Minerals Program, 2001.
B.A. for A., with additional information from:
(1) SUTHERLAND, E.L. 1989. Age-range volcanism in the Tasmanian Tertiary in relation to coastal seas and river systems. Pap. Proc. Roy. Soc. Tasmania 114: 177-190.
(2) J.L. Everard pers. comm. Tertiary beach geomorphology.



REFERENCE THIS MAP AS:
HALL, W.D.M.; SUTHERLAND, E.L.; EVERARD, J.L.; SEYMOUR, E.B. 2006
Digital Geological Atlas 1:25000 Series, sheet 3249 Robbins, Mineral Resources Tasmania.
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Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.
AOD64 - AMG Zone 55. Contour Interval: 20 metres.
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