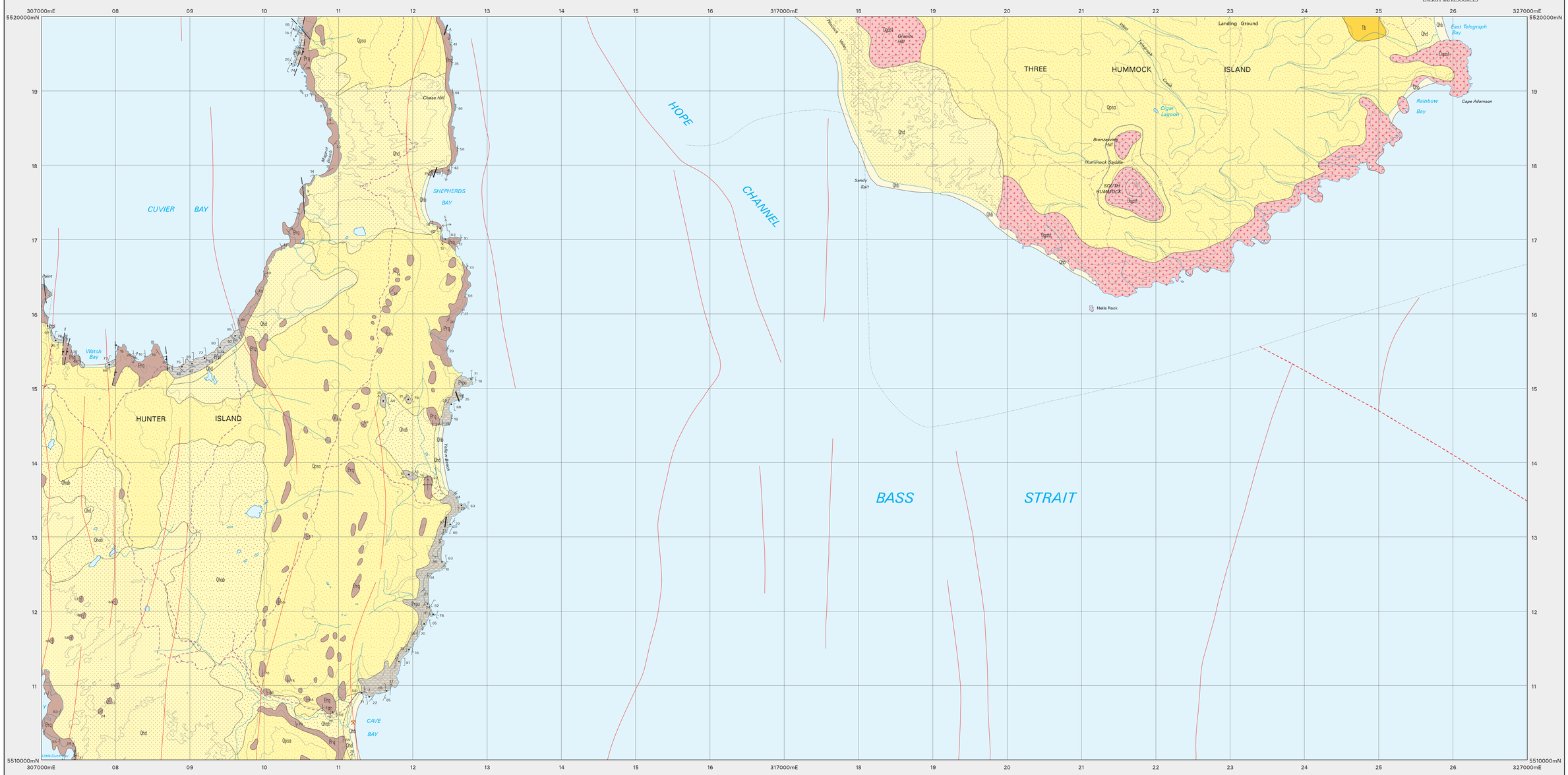
MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
CUVIER EAST, SHEET 3051

CUVIER EAST

Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA
Tasmania
DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



COMPOSITE LEGEND FOR CUVIER EAST AND CUVIER WEST

CAINOZOIC

- QUATERNARY – HOLOCENE
  - Qhb — *Modern beach sand (Qhb).*
  - Qhd — *Modern dune sand (Qhd).*
  - Qhab — *Marsh and swamp deposits (Qhab).*
- QUATERNARY – PLEISTOCENE
  - Qpsa — *Older stabilised aeolian sand of predominantly coastal plain (Qpsa).*
- *Erosional surface.*
- TERTIARY
  - Tb — *Basalt and related volcaniclastic rocks (Tb).*
- *Angular unconformity.*

?EARLY NEO-PROTEROZOIC — ROCKY CAPE GROUP CORRELATES

- Prpu — *Thinly interbedded, maroon, green and grey laminated quartz-rich siltstone and white, cream, grey and brown, commonly cross-bedded and ripple-marked, fine- to medium-grained quartzite (in typically lenticular beds up to 3m thick in some sections); ball and pillow structure, grading, and rip-up clasts present. ('Upper Pelitic' sequence of Hunter Island, eastern Woolnorth peninsula and Harbour Islets) (Prpu).*
- 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; tidal influence suggested by bed to bed reversals of cross-lamination polarity in some sections (Prq).*
- Prpl — *Dark grey to black, laminated siltstone-claystone with some thin (<1cm) graded beds, and some beds up to 30cm thick of fine-grained ripple-laminated quartz sandstone ('Lower Pelitic' sequence of Robbins Island, Walker Island, Big Sandy Petrel Islet and Hunter Island). (Prpl).*

PALAEOZOIC

INTRUSIVE ROCKS

- DEVONIAN
  - Dgsst — *Medium- to coarse-grained, leucocratic, porphyritic biotite-muscovite granite/adamellite (S-type), with variably abundant, locally flow-aligned large potash feldspar phenocrysts; locally shows mineral banding and/or fine-grained melanocratic enclaves (Dgsst).*

- *Geological boundary – position accurate or approximate.*
- *Geological boundary – concealed. (Inferred from airborne magnetic data where shown offshore; indicates approximate northern and eastern seafloor limit of Tb west of Hunter Island; seafloor limit of Devonian granite south of Three Hummock Island).*
- *Fault – unspecified type, position accurate or approximate.*
- *Normal fault (downthrown side indicated) – position accurate or approx.*
- *Fault – inferred from airborne magnetic data.*
- *Lineament visible in airborne magnetic data.*
- *Axial surface trace of major synform.*

- *Strike and dip of bedding, facing known – right way up; overturned.*
- *Strike and dip of bedding, facing unknown – dipping; vertical.*
- *Strike and dip of cleavage, type and relative age unspecified – dipping, vertical.*
- *Strike and dip of outcrop-scale fault; vertical.*
- *Trend and plunge of hingeline of minor fold, unspecified relative age; with sinistral vergence; dextral vergence.*
- *Trend and plunge of hingeline of minor fold, unspecified relative age: antiform; synform.*
- *Trend of horizontal hingeline of minor fold, unspecified relative age; synform.*

Compiled by D.B. Seymour, B.Sc.(Hons), PhD. 2006, from the following sources (see Responsibility Diagram):

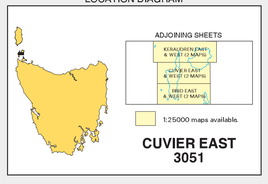
A HALL, W.D.M. (Monash University, Melbourne): New 1:25,000 scale mapping 1997-2001 with additions from:
(1) Interpretation by D.B. Seymour, of airborne magnetic and radiometric data collected under the Western Tasmanian Regional Minerals Program 2001.
(2) JENNINGS, D.J. (unpublished): Geological map of Hunter Island, approx. 1:31,680 scale. Dept. of Mines Tasmania.

B Geology sourced with minor modifications from:
JENNINGS, D.J. 1976: The geology of Three Hummock Island. Tasmania Dept. of Mines, Unpublished Report 1976/56.
Additional information on granite petrology sourced from:
EVERARD, J.L.; CALVER, C.R.; PEMBERTON, J.; TAHERI, J.; DIXON, G. 1997: Geology of the islands of southwestern Bass Strait. (A contribution to the National Geoscience Mapping Accord). Mineral Resources Tasmania, Record 1997/03.

C Additional offshore linears interpreted by D.B. Seymour from airborne magnetic data collected under the Western Tasmanian Regional Minerals Program 2001.

RESPONSIBILITY DIAGRAM

LOCATION DIAGRAM



REFERENCE THIS MAP AS:

HALL, W.D.M.; JENNINGS, D.J.; EVERARD, J.L.; SEYMOUR, D.B. 2006. Digital Geological Atlas 1:25000 Series, sheet 3051 Cuvier. Mineral Resources Tasmania.

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Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software.

AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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