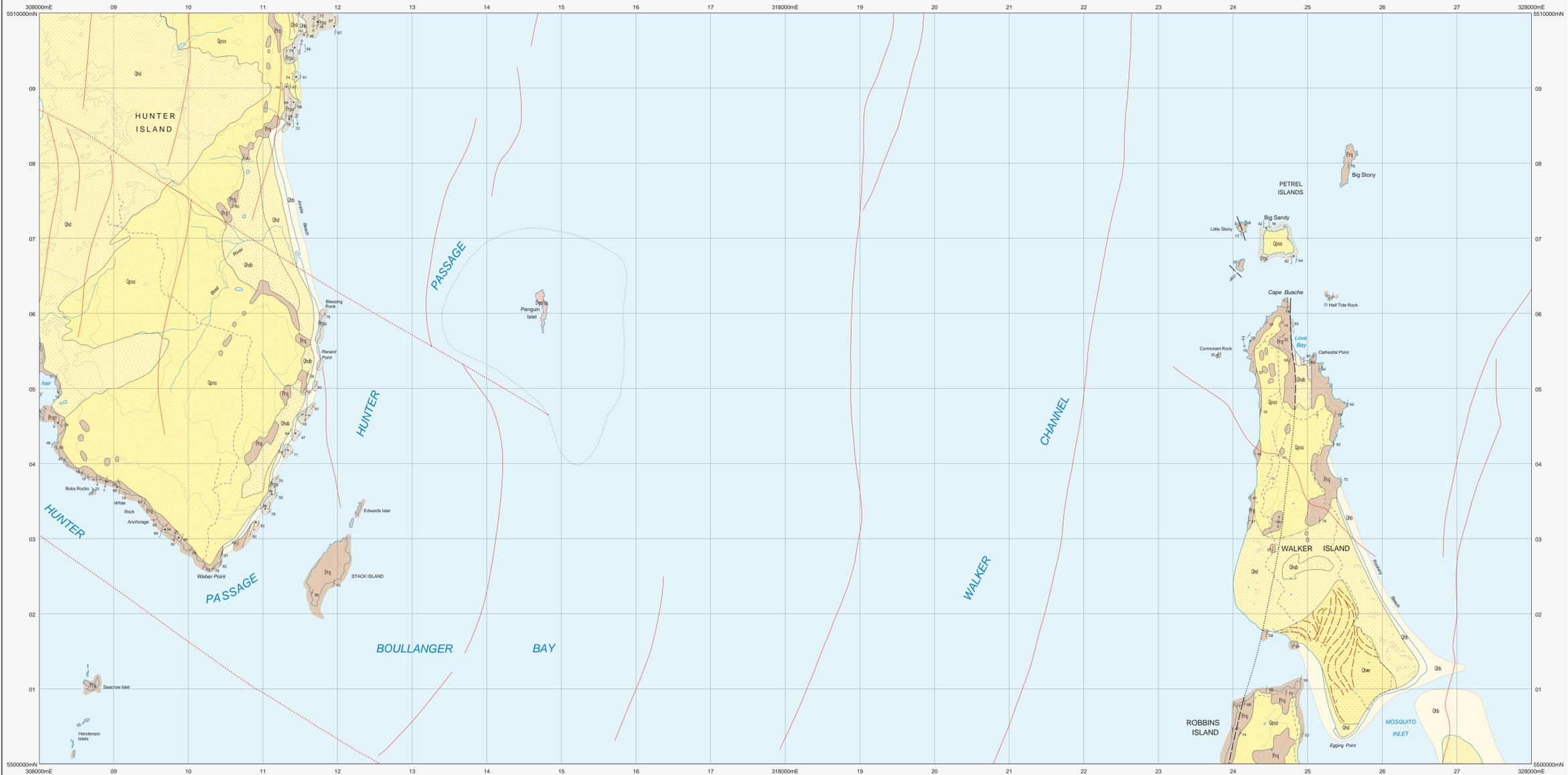


BIRD EAST

Scale: 1:25 000



COMPOSITE LEGEND FOR BIRD EAST AND BIRD WEST

PERIOD	UNIT CODE	DESCRIPTION
CENOZOIC	QUATERNARY	Qhb Modern beach sand (Qhb).
		Qhd Modern dune sand (Qhd).
		Qhr Sand of stabilised longitudinal beach ridges (Qhr).
		Qhsb Marsh and swamp deposits (Qhsb).
		Qpsa Older stabilised aeolian sand of predominantly coastal plain (Qpsa).
PALEOGENE - NEOGENE	TERTIARY	Tbcm Basalt and related volcanoclastic rocks (Tbcm). Crudely bedded basaltic pyroclastic rocks, pillow and tabular breccias and hyaloclastite, with subordinate olivine basalt lava and pillow lava (Tbcm).
		Tbc Bedded basaltic flow-fall pillow breccias and associated small pillow lava flows, with dips of 10-45 degrees probably representing original depositional slopes (Trefoil Island Volcanic Breccia on this map) (Tbc).
		Angular unconformity.
MESOPROTEROZOIC	RODNEY CAME GROUP CORRELATES	Etpu 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); tail and pillow structures, grading and flip-up dips present (lower Pelitic sequence of Hunter Island, eastern Woodroffe peninsula and Harbour Islets) (Etpu).
		Etrq Pale weathering, variably silicified quartzarenites, well bedded and commonly with cross-lamination of trough and point-bar types and oscillation ripple bedforms, and with minor horizons of laminated siltstone; tidal influence suggested by bed to bed reversal of cross-lamination polarity in some sections (Etrq).
		Etrp Dark grey to black, laminated siltstone-claystone with some thin (<1m) graded beds, and some beds up to 30cm thick of fine-grained (dark-laminated) quartz sandstone (Lower Pelitic sequence of Robbins Island, Walker Island, Big Sandy, Petrel Islet and Hunter Island) (Etrp).
		Intrusive Rocks
PALEOZOIC	DEVONIAN	Dgsfpe Medium-grained, porphyritic, muscovitic, biotite-muscovite-bearing granite, with tabular K-feldspar phenocrysts locally aligned to define a coarse phenocryst foliation (Penguin Islet Granite; S-type) (Dgsfpe).

Geological boundary - position accurate or approximate.
Geological boundary - concealed (inferred from airborne magnetic data where shown offshore; indicates approximate eastern seaboard limit of Tbc and related sequences west of Bird Island; seaboard limit of Penguin Islet granite).
Fault - unspecified type, position accurate or approximate.
Fault - unspecified type, concealed.
Fault - concealed, inferred from airborne magnetic data.
Normal fault (downthrown side indicated) - position accurate or approx.
Lineament visible in airborne magnetic data.
Trends of older stabilised Holocene beach ridges.
Limit of mapping.

Strike and dip of bedding, facing known - right way up; overturned, vertical (facing indicated by single tick); vertical.
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 hinge of minor fold, unspecified relative age, with sinistral vergence; dextral vergence.
Trend and plunge of hinge of minor fold, unspecified relative age; unknown system.
Trend of horizontal hinge of minor fold, unspecified relative age, system.
Location of adjacent structural readings.

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, Tasmania Department of Mines.

B HALL, W.D.M. (Monash University, Melbourne): New 1:25 000 scale mapping 1997-2001, with modifications and additions by D.B. Seymour, based on interpretation of aerial photogrammetry and airborne magnetic and radiometric data collected under the Western Tasmanian Regional Minerals Program 2001. (Bird East only).

C Geology sourced from:
(1) EVERARD, J.L., CALVER, C.R., PEMBERTON, J., TAHERI, J., DIXON, G. 2007. Geology of the island of Southwestern Bass Strait (A constituent of the National Geoscientific Mapping Action Plan - Annual Resource Tasmania Report 1907/03).
(2) SUTHERLAND, F.L. 1985. Aquagene volcanism in the Tasmanian Territory. In relation to coastal basins and river systems. *Proc. Roy. Soc. Tasmania* 114: 177-206.

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

REFERENCE THIS MAP AS:

HALL, W.D.M., JENNINGS, D.J., EVERARD, J.L., SUTHERLAND, F.L., SEYMOUR, D.B. 2008. Digital Geological Atlas 1:25 000 Scale Series, Sheet 3050, Bird. Mineral Resources Tasmania.

Base data from the LUST, Copyright State of Tasmania.
Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software.
GDAS4 - MGA Zone 55. Contour Interval: 20 metres.



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