Department of State Growth
MINERAL RESOURCES TASMANIA

DIGITAL GEOLOGICAL ATLAS 1:25 000 SCALE SERIES
KERAUDREN WEST, SHEET 3052

KERAUDREN WEST

Scale 1:25 000

0 500 1000 1500 2000 2500m

Tasmanian Government

300000mE 01 02 03 04 05 06 07 08 09 310000mE 11 12 13 14 15 16 17 18 19 320000mE
5530000mN 29 28 27 26 25 24 23 22 21 5520000mN

ALBATROSS ISLAND

SOUTHERN OCEAN

BASS STRAIT

HOPE CHANNEL

CAPE KERAUDREN

HUNTER ISLAND

Prq

Qpsa

Aeroplane Corner

COULOMB BAY

Ranger Point

Burgess Point

Bears Island

Spiers Bay

Qhd

Dgast

West Telegraph Creek

Signal Hill

Chimney Corner

COMPOSITE LEGEND FOR KERAUDREN EAST AND KERAUDREN WEST

CENOZOIC

QUATERNARY — PLEISTOCENE - HOLOCENE

- Qhb — *Modern beach sand (Qhb).*
- Qhd — *Modern dune sand (Qhd).*
- Qpsa — *Older stabilised aeolian sand of predominantly coastal plain (Qpsa).*

Erosional surface.

PALEOGENE - NEOGENE

- TQca — *Calcrete float, related to ?Paleogene - Neogene or ?Quaternary limestone (TQca).*
- Tb — *Basalt (Tb).*

Angular unconformity.

NEO-PROTEROZOIC

- Psca — *Thick-bedded to massive, clast-supported, cobble-boulder conglomerate (with dominant, rounded clasts of white or pink quartzite, and rare angular clasts of dark grey or red siltstone), with coarse quartz sandstone matrix, and minor (5%) impersistent beds up to 600mm thick of coarse-grained sandstone. (Psca). (Probable correlate of Forest Conglomerate and Quartzite).*

Inferred angular unconformity

?MESO-PROTEROZOIC — ROCKY CAPE GROUP CORRELATES

- 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 Peltic' sequence of Robins Island, Walker Island, Big Sandy Petrel Islet and Hunter Island) (Prpl).*

INTRUSIVE ROCKS

PALEOZOIC — DEVONIAN

- Dgast — *Medium- to coarse-grained, porphyritic biotite-muscovite-bearing syenogranite/monzogranite, with variably abundant, large locally flow-aligned potash feldspar phenocrysts, and locally mineral banding and fine-grained melanocratic enclaves (Three Hummock Island Granite; S-type) (Dgast).*

CONTACTS

- *Geological contact.*
- *Limit of detailed mapping.*

FAULTS

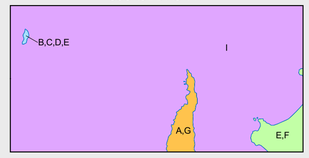
- *Fault.*
- *Fault - concealed, inferred from magnetic data.*

LINEARS

- *Axial surface trace of major antiform.*
- *Subsurface geological boundary projected to surface.*
- *Lineament - visible in magnetic data.*

- *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.*
- *Strike of vertical outcrop-scale fault of unspecified relative age, type unspecified.*
- *Trend and plunge of hingeline of minor antiform, unspecified relative age.*
- *Field station for adjacent readings on the map.*

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), PhD., 2006 from the following sources (see source diagram):

A HALL, W.D.M. (Monash University, Melbourne): New 1:25 000 scale mapping 1997-2001.

B SUTHERLAND, F.L., CORBETT, K.D. 1967. The Tertiary volcanic rocks of far north-western Tasmania. Pap. Proc. Roy. Soc. Tasmania 101: 71-90.

C SUTHERLAND, F.L. 1980: Aquagene volcanism in the Tasmanian Tertiary, in relation to coastal seas and river systems. Pap. Proc. Roy. Soc. Tasmania 114: 177-199.

D BANKS, M.R. 1989: Notes on the geology and geomorphology of Albatross Island. Rec. Queen Victoria Museum 95 (Keraudren West only).

Updated with additional information from:

E 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.

F JENNINGS, D.J. 1976: The geology of Three Hummock Island. Tasmanian Dept. of Mines. Unpublished Report 1976/56.

H JENNINGS, D.J. (unpublished): Geological map of Hunter Island, approx. 1:31 680 scale. Plan 3442A Dept. of Mines Tasmania.

G D.B. Seymour, 2001, interpretation of aerial photographs and airborne magnetic radiometric data collected under the Western Tasmanian Regional Minerals Program, 2001.

I D.B. Seymour, 2001, Unpublished interpretation of WTRMP airborne magnetic data covering offshore areas.

REFERENCE THIS MAP AS:

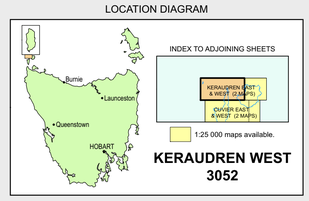
HALL, W.D.M., JENNINGS, D.J., EVERARD, J.L., BANKS, M.R. and SEYMOUR, D.B. (compilers) 2006. Digital Geological Atlas 1:25 000 Scale Series. Sheet 3152 Keraudren. Mineral Resources Tasmania.

Map produced by Spatial Information Services, Mineral Resources Tasmania.

Website: www.mrt.tas.gov.au

GDA94 - MGA Zone 55. Contour Interval: 20 metres.

LOCATION DIAGRAM



Map generated: 31-AUG-2023

WARNING: INKS ARE LIGHT SENSITIVE.