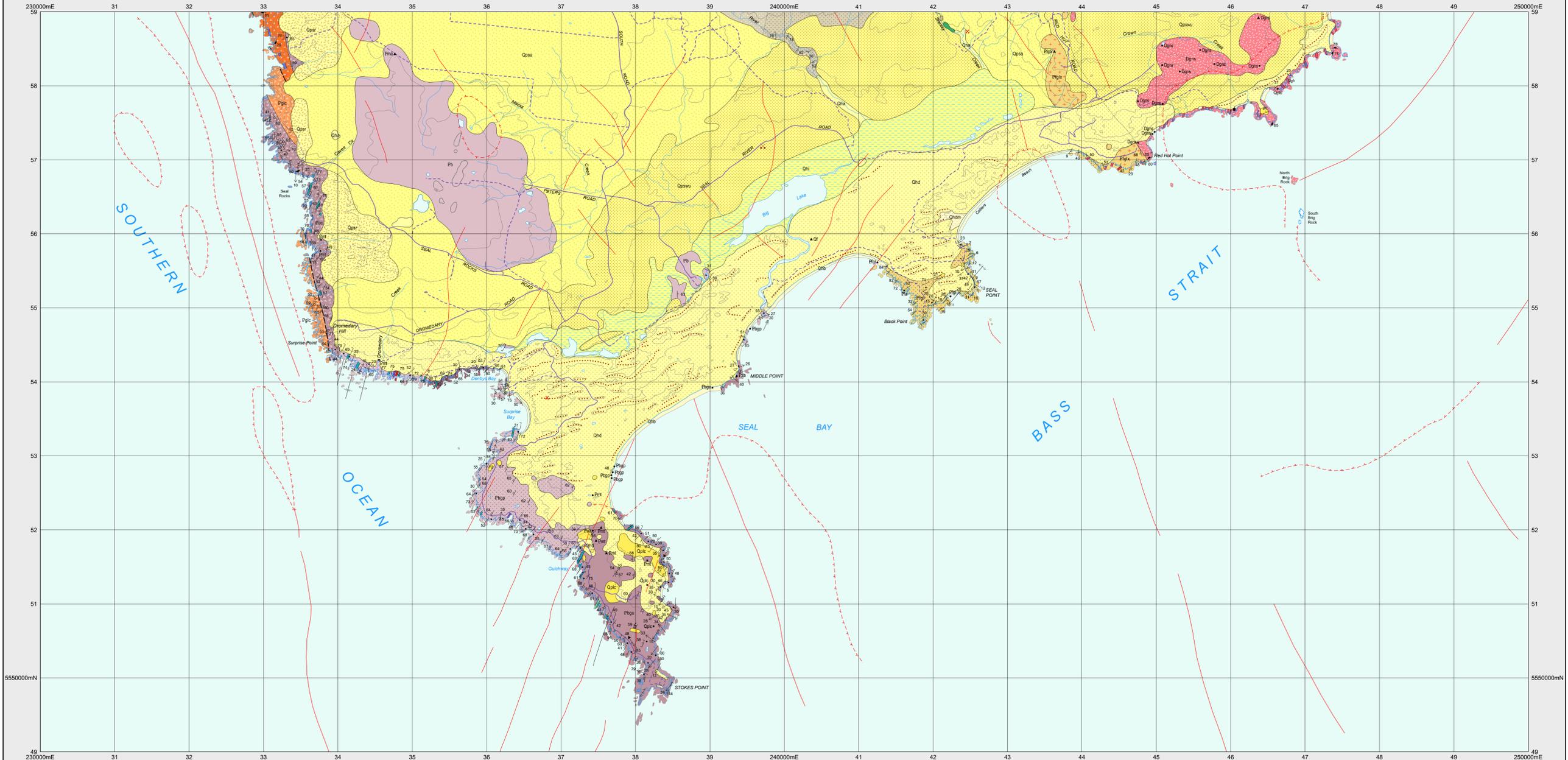


STOKES SOUTH

Scale 1:25 000



CENOZOIC

QUATERNARY

- Qhb Mobile beach and dune sand (Qhb).
- Qhdm Mobile dune sand (Qhdm).
- Qhd Vegetated dune sand (Qhd), vegetated calcareous dune sand (Qhdc).
- Qha Stream alluvium and freshwater swamp and marsh deposits (Qha).
- Qh Lagoon and paralic swamp deposits (Qh).
- Qd Older calcareous dune sand with locally abundant rhizomorph fragments (Qd).
- Qpww Older aeolian dune sand and minor clay, peat and gravel (Qpww).
- Qps Stabilised aeolian sand of coastal plain (Qps).
- Qpc Well-bedded aeolian calcarenite (lithified calcareous dune sand: "scablands") (Qpc).

NEOGENE

- Qf Local occurrences of ironstone (Qf).

MIOCENE

- Trmb Bioclastic shallow marine limestone (tricolour calcarenite) with a probable Early Miocene fauna (Trmb).

Unconformity.

COMPOSITE LEGEND FOR STOKES NORTH AND STOKES SOUTH

NEOPROTEROZOIC

EDJACARAN

- Eyx Contact metamorphosed mafic volcanics and volcanoclastics (undifferentiated Skiptow Subgroup) (Eyx).
- Eys Undifferentiated sedimentary rocks of Grassy Group (Eys); contact metamorphosed and metamatised (Eys).

Unconformity.

FRASER FORMATION

- Efa Local occurrence of massive silty metapelite with amphibole (tronite-actinolite) porphyroblasts (Efa).
- Efg Undifferentiated Fraser Formation (quartz siltstone and mudstone) (Efg). Pale grey quartzose metapelites, very fine-grained metasediments and minor pelitic siltstone, laminated in most places, commonly with metamorphic chlorite, biotite and garnet (Efg); contact metamorphosed (Efg).
- Efb Interbedded quartzose siltstone and dark grey siltstone, with metamorphic biotite and chlorite (Efb).
- Efi Interbedded quartzose siltstone and dark grey siltstone (Efi).

Faulted contact

SURPRISE BAY FORMATION

- Eps Fine-grained quartzose metasediments, metasilstone and quartz-mica schist (Surprise Bay Formation) (Eps). Strongly foliated mica schist, with local cataclaste and mylonite (Eps).
- Epb Schist, metasilstone and metasediments with metamorphic andalusite, garnet and biotite (Epb). Interbedded medium- to thick-bedded very fine-grained quartz sandstone and pelitic schist with metamorphic biotite & garnet (Epb). Intervals of banded schist with tremolite porphyroblasts and metamorphic garnet and biotite (Epb); schist with abundant allicious concretions (2-10cm diameter) and tremolite porphyroblasts in matrix (Epb). (Epb, Eba; Eba: caper sandy member of the Surprise Bay Formation).
- Epg Usually thin-bedded pelitic schist with metamorphic biotite, garnet and locally abundant andalusite porphyroblasts (Epg: middle pelitic member of the Surprise Bay Formation).
- Eph Thick-bedded fine-grained quartz sandstone and subordinate pelitic siltstone with metamorphic biotite & garnet and rare andalusite (Eph).
- Epi Schist, metasilstone and metasediments with metamorphic biotite (Epi). (Epi, Epb- lower sandy member of the Surprise Bay Formation).

IGNEOUS ROCKS

PALEOZOIC

CARBONIFEROUS

- Dgngg Hornblende & biotite microgranodiorite dykes (thickness exaggerated) (Dgngg).
- Dgns Porphyritic (K-feldspar) to equigranular hornblende-biotite monzogranite, with common mafic enclaves (Sandblow Granite; Hypo: dated at 390.8 ± 1.7 Ma, U/Pb SHRIMP on zircon) (Dgns).

NEOPROTEROZOIC

EDJACARAN

- Eyy Mafic volcanics and volcanoclastics (Eyy); contact metamorphosed (Eyy). (Eyy, Eyx - undifferentiated Skiptow Subgroup).
- Eypb Chloritized picritic intrusion in Fraser Formation (Eypb).
- Eyb Metadolerite intrusions in Fraser Formation (Eyb).
- Eimg Tholeiitic dolerite dykes in Loorana Granite (thickness exaggerated) (Eimg).
- Emt Tholeiitic dolerite sills in Surprise Bay Formation; probably younger than Loorana Granite (thickness exaggerated) (Emt).
- Ema Strongly fractionated dolerite sills, usually feldspar-phryic, in Surprise Bay Formation; probably younger than Loorana Granite (thickness exaggerated) (Ema).
- Egld Granitic dykes, including quartz-feldspar-biotite porphyry and pegmatite (thickness exaggerated) (Egld).
- Eg Equigranular/seriate to sparsely porphyritic (K-feldspar), fine- to medium-grained biotite monzogranite, with sparse mafic enclaves (Loorana Granite; dated at 748 ± 2 Ma, U/Pb SHRIMP on zircon) (Eg).
- Egc Breccia, cataclaste and mylonite, derived predominantly from the Loorana Granite, with minor interfoliated pelitic schist (Egc).
- Eaa Amphibolite dykes and sheets of tholeiitic composition; older than Loorana Granite (thickness exaggerated) (Eaa).

TONIAN

CONTACTS

- Geological contact.
- Metamorphic contact.
- Limit of mapping of sub-unit within undifferentiated rock unit.
- Limit of detailed mapping.

FAULTS

- Fault.
- Fault - concealed.

LINEARS

- Axial surface trace of major antiform.
- Axial surface trace of major synform.
- Axial surface trace of major overturned synform.
- Subsurface geological boundary projected to surface.
- Dune crest.
- Lineament - visible in magnetic data.
- Magnetic gradient or lineament (direction towards lower values indicated).

SOURCE DIAGRAM

Legend for 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.

Geology by J.L. Everard, B.Sc.(Hons), 2011 from the following sources (see source diagram):
A J.L. Everard 1:25 000 scale geological mapping, 2008-2010.
B J.N. Jennings, 1959. The coastal geomorphology of King Island, Bass Strait, in relation to changes in the relative level of the land and sea. Records of the Queen Victoria Museum, Launceston, New Series No.11.
C S.G. Brown, 1975. Progress report on the exploration of the Grassy Granite contact zone. Geopaco Limited, TCR 75-1076.

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REFERENCE THIS MAP AS:

EVERARD J.L. 2011. Digital Geological Atlas 1:25 000 Scale Series, Sheet 2355 Stokes, Mineral Resources Tasmania.

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Website: www.mrt.tas.gov.au
GDAM - MGA Zone 55. Contour Interval: 20 metres.

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LOCATION DIAGRAM

INDEX TO ADJOINING SHEETS

1:25 000 maps available.

STOKES SOUTH 2355

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