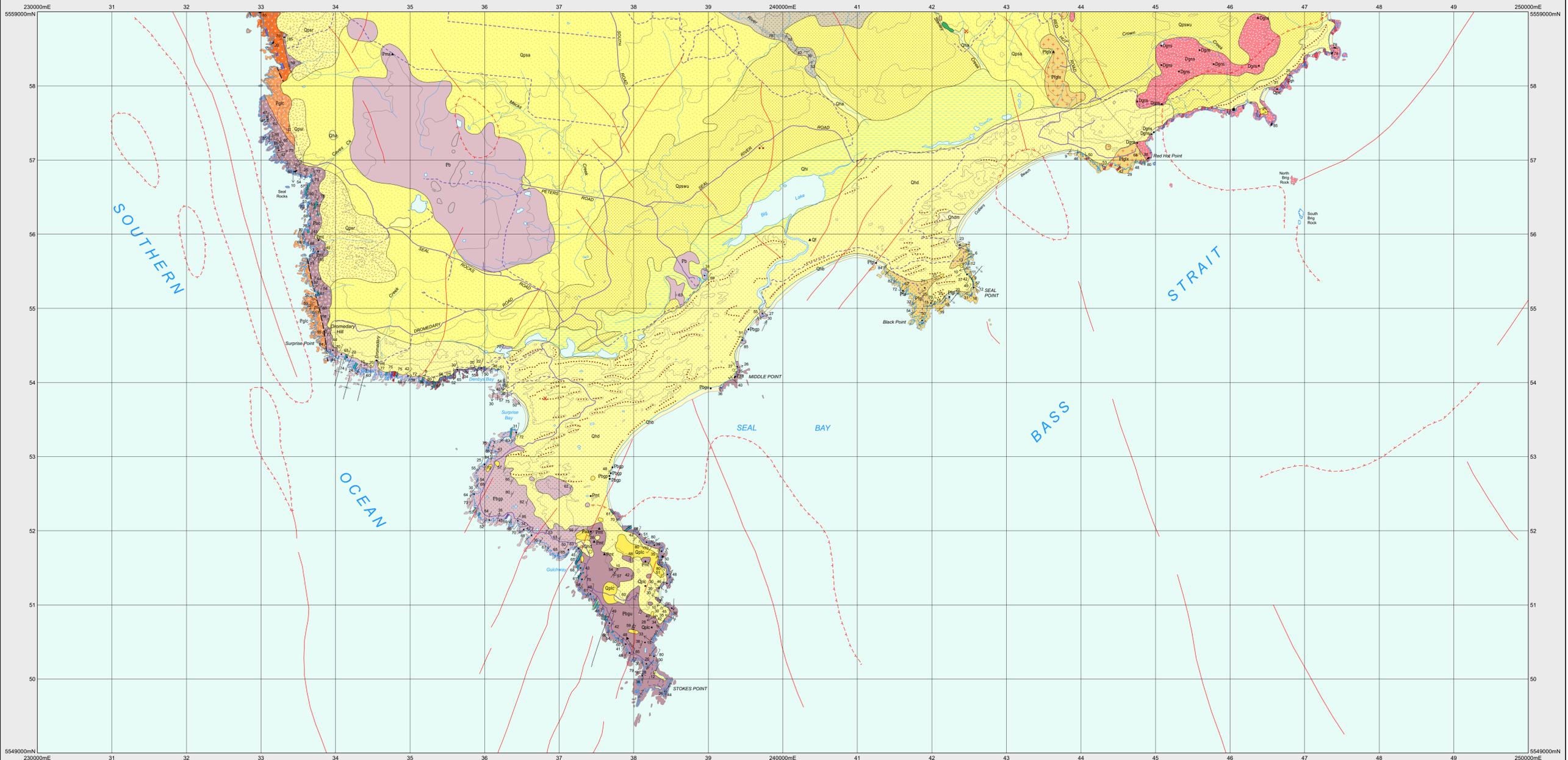


# STOKES SOUTH

Scale 1:25 000



Geological Unit	Description
Qhb	Mobile beach and dune sand (Qhb).
Qhdm	Mobile dune sand (Qhdm).
Qhd	Vegetated dune sand (Qhd).
Qhdc	Vegetated calcareous dune sand (Qhdc).
Qha	Stream alluvium and freshwater swamp and marsh deposits (Qha).
Qhi	Lagoon and paralic sand deposits (Qhi).
Qgpr	Older calcareous dune sand with locally abundant rhizomorph fragments (Qgpr).
Qpaw	Older aeolian dune sand and minor clay, peat and gravel (Qpaw).
Qpsa	Stabilised aeolian sand of coastal plain (Qpsa).
Qpic	Well-bedded aeolian calcarenite (lithified calcareous dune sand: 'scablands') (Qpic).
Ql	Local occurrences of ironstone (Ql).
Tmb	Biohermal shallow marine limestone (truncated calcarenite) with a probable Early Miocene fauna (Tmb).
Unconformity	Unconformity.

### COMPOSITE LEGEND FOR STOKES NORTH AND STOKES SOUTH

Geological Unit	Description
Pyyx	Contact metamorphosed mafic volcanics and volcanoclastics (undifferentiated Skipworth Subgroup) (Pyyx).
Eys	Undifferentiated sedimentary rocks of Grassy Group (Eys); contact metamorphosed and metasomatised (Pyyx).
Efta	Local occurrence of massive silty metapelite with amphibole (tronchite-actinolite) porphyroblasts (Efta).
Pf	Undifferentiated Fraser Formation (quartz siltstone and mudstone) (Pf). Pale grey quartzite metasediments, very fine-grained metasediments and pelitic schist with metamorphic biotite & garnet (Pfg). Intervals of banded schist with tremolite porphyroblasts and metamorphic garnet and biotite (Pba): schist with abundant alveolar concretions (2-10cm diameter) and tremolite porphyroblasts in matrix (Pba). (Pba), Pba: coarse sandy member of the Surprise Bay Formation.
Pfb	Interbedded quartzose siltstone and dark grey siltstone, with metamorphic biotite and chlorite (Pfb).
Pfi	Interbedded quartzose siltstone and dark grey siltstone (Pfi).
Pfca	Faulted contact
Pfca	Fine-grained quartzite, metasandstone, metasilstone and quartz-mica schist (Surprise Bay Formation) (Pfc). Strongly foliated mica schist, with local cataclasis and mylonite (Pfc).
Pfca	Schist, metasilstone and metasandstone with metamorphic andalusite, garnet and biotite (Pfg). Interbedded medium- to thick-bedded very fine-grained quartz sandstone and pelitic schist with metamorphic biotite & garnet (Pfg). Intervals of banded schist with tremolite porphyroblasts and metamorphic garnet and biotite (Pba): schist with abundant alveolar concretions (2-10cm diameter) and tremolite porphyroblasts in matrix (Pba). (Pba), Pba: coarse sandy member of the Surprise Bay Formation.
Pfca	Usually thin-bedded pelitic schist with metamorphic biotite, garnet and locally abundant andalusite porphyroblasts (Pfg): middle pelitic siltstone with metamorphic biotite & garnet and rare andalusite (Pfg).
Pfca	Thick-bedded fine-grained quartz sandstone and subordinate pelitic siltstone with metamorphic biotite & garnet and rare andalusite (Pfg).
Pfca	Schist, metasilstone and metasandstone with metamorphic biotite (Pfb).
Pfca	Schist, metasilstone and metasandstone with metamorphic biotite (Pfb).
Pfca	Schist, metasilstone and metasandstone with metamorphic biotite (Pfb).
Pfca	Schist, metasilstone and metasandstone with metamorphic biotite (Pfb).

### IGNEOUS ROCKS

Dgmsg	Hornblende & biotite microgranodiorite dykes (thickness exaggerated) (Dgmsg).
Dgms	Porphyritic (K-feldspar) to equigranular hornblende-biotite monzogranite, with common mafic enclaves (Snowblow Granite; 4kpa; dated at 380.8 ± 1.7 Ma, U/Pb SHRIMP on zircon) (Dgms).
Pyy	Mafic volcanics and volcanoclastics (Pyy); contact metamorphosed (Pyyx).
Pyyx	(Pyy, Pyyx - undifferentiated Skipworth Subgroup).
Pfyp	Chloritized picritic intrusion in Fraser Formation (Pfyp).
Pfyt	Metadolerite intrusions in Fraser Formation (Pfyt).
Pfmg	Tholeiitic dolerite dykes in Loarana Granite (thickness exaggerated) (Pfmg).
Pfmi	Tholeiitic dolerite sills in Surprise Bay Formation; probably younger than Loarana Granite (thickness exaggerated) (Pfmi).
Pfma	Strongly fractionated dolerite sills, usually feldspar-phryic, in Surprise Bay Formation; probably younger than Loarana Granite (thickness exaggerated) (Pfma).
Pfmd	Granitic dykes, including quartz-feldspar-biotite porphyry and pegmatite (thickness exaggerated) (Pfmd).
Pfgr	Equigranular/seriate to sparsely porphyritic (K-feldspar), fine- to medium-grained biotite monzogranite, with sparse mafic enclaves (Loarana Granite; dated at 748 ± 2 Ma, U/Pb SHRIMP on zircon) (Pfgr).
Pfgc	Breccia, cataclasis and mylonite, derived predominantly from the Loarana Granite, with minor interfoliated pelitic schist (Pfg).
Pfa	Amphibolite dykes and sheets of tholeiitic composition; older than Loarana Granite (thickness exaggerated) (Pfa).

Strike and dip of bedding - right way up; vertical, facing indicated by single tic; overturned; facing unknown; vertical.
Strike and dip of dominant joint set; vertical.
Strike and dip of dyke or vein; Apilite (Dgh).
Strike and dip of cleavage; vertical; relative local age S.
Strike and dip of crenulation cleavage; vertical.
Strike and dip of cleavage parallel to bedding, facing unknown.
Strike and dip of metamorphic foliation other than cleavage.
Strike and dip of cataclastic foliation; vertical.
Strike and dip of mylonitic foliation or mylonite zone.
Strike and dip of ductile shear band; vertical.
Trend and plunge of lineation of unspecified type.
Trend and plunge of bedding/primary cleavage intersection lineation (L-i).
Trend and plunge of crenulation lineation.
Trend and plunge of minor fold hinge line; with dip direction and dip of axial surface indicated; horizontal.
Trend and plunge of minor fold hinge line, unspecified relative age, vergence unclear; vergence sinistral; with dip and dip direction of axial surface.
Trend and plunge of minor fold hinge line, relative local age F <sub>1</sub> , vergence sinistral.
Field station for adjacent readings on the map.
Notable small outcrop with rock unit indicated.
Notable small float or lag occurrence with rock unit indicated.
Mineral deposit location - alluvial/alluvial.
Construction material/industrial mineral/gemstone location.

### CONTACTS

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

### FAULTS

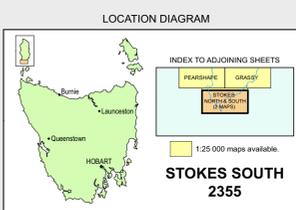
Fault
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### LINEARS

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).



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. Geopiko Limited, TCR 75-1075.



### REFERENCE THIS MAP AS:

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

Base data from the LIST, Copyright State of Tasmania.  
 Map produced by Spatial Information Services, Mineral Resources Tasmania.  
 Website: www.mrt.tas.gov.au  
 GDSM - MGA Zone 55. Contour Interval: 20 metres.

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