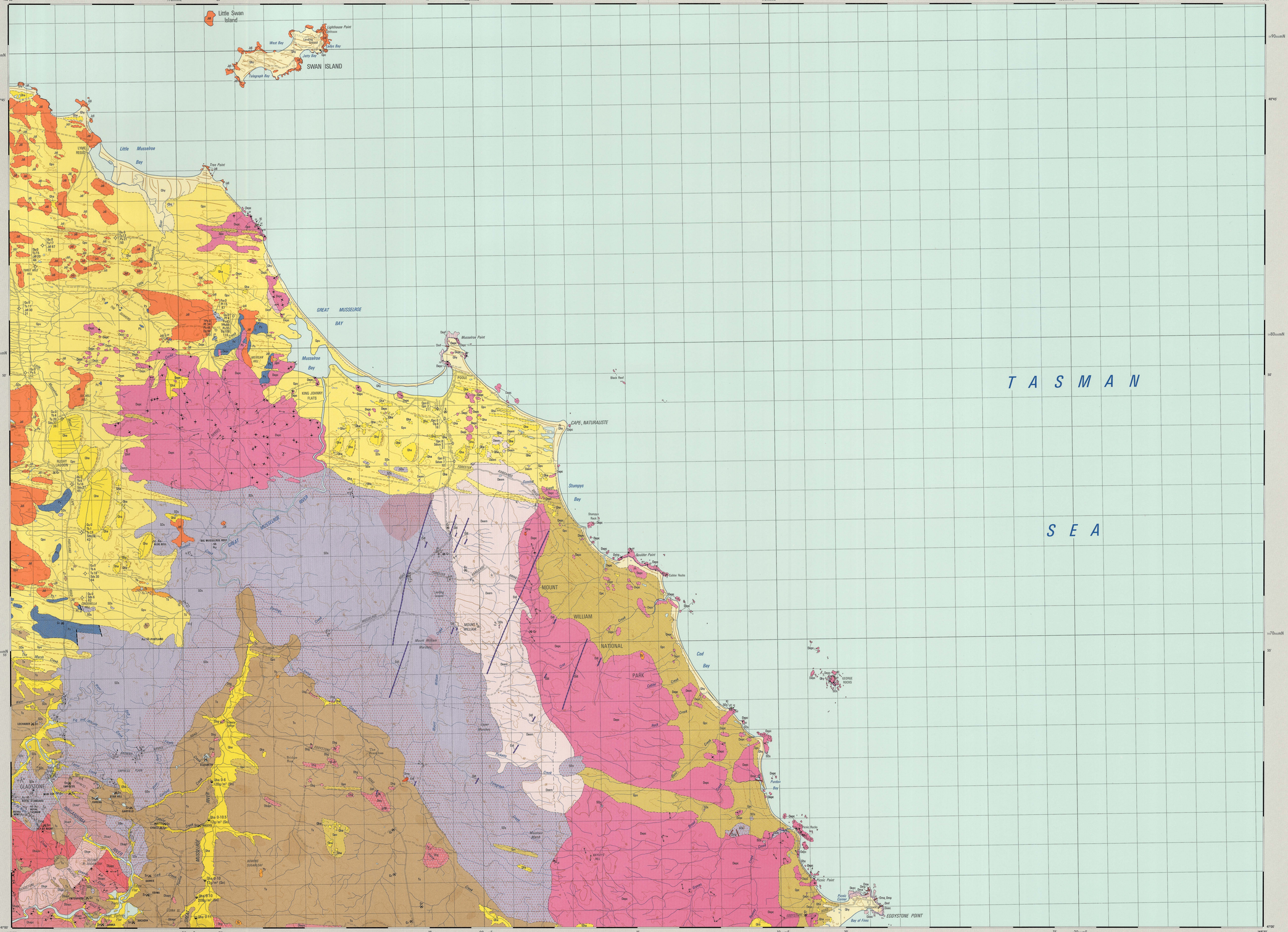
FIRST EDITION 1984

EDDYSTONE

GEOLOGICAL SURVEY OF TASMANIA – DEPARTMENT OF MINES – HOBART.

GEOLOGICAL ATLAS 1 : 50 000 SERIES SHEET 8516 S.



REFERENCE

CAINOZOIC

QUATERNARY — HOLOCENE

Qha — Alluvium, swamp and marsh deposits. Alluvial workings ( ).

PLEISTOCENE — Qe

Qey — Younger aeolian dune sand, beach sand and gravel.

Qeo — Older aeolian dune sand.

Qpc — Clay, sand, minor peat and gravel. (Sand ridge crests indicated).

Erosional surface.

TERTIARY — Tg

Ts — Sand, gravel and clay (Tg); basalt (Tb).

Tb — Lag and outcrop of silicified quartz sandstone indicated ( ).

Low-angle unconformity.

PALAEOZOIC

PERMIAN — Pe

Pw — Fossiliferous marine sandstone (Upper glacio-marine sequence). Horizon of possible Permian latite in boreholes (?Pb at EG912806 and EG912812).

Pl — Cross-bedded quartz sandstone and carbonaceous mudstone (Freshwater sequence, correlate of Liffey Group).

Pz — Richly fossiliferous bryozoal siltstone, poorly sorted pebbly sandstone (Lower glacio-marine sequence).

Angular unconformity.

DEVONIAN (?) SILURIAN (?) — Sdu

Quartzwacke turbidite sequence. Areas of significant lithicwacke indicated ( ). Contact metamorphic psammite, spotted pelite and minor schist ( ).

LOWER PARMEENER SUPER GROUP — BALMORAL BEDS

IGNEOUS ROCKS

TERTIARY — Tb — Basalt

CRETACEOUS — Kl — Lamprophyre

JURASSIC — Jdl — Dolerite

PERMIAN (?) — Horizon of possible Permian latite in boreholes (?Pb at EG912806 and EG912812).

DEVONIAN

Ddl — Dolerite

MINOR GRANITIC INTRUSIONS

Dpa — Aplite (Dma), fine-grained granite (Dmf), pegmatite (Dmp), greisen (Dmg).

MAJOR GRANITIC INTRUSIONS

EDDYSTONE BATHOLITH — Dde

Dedm — Equigranular, medium-grained biotite-muscovite granite.

Dedc — Equigranular, coarse-grained biotite adamellite.

Dedf — Equigranular, fine- to medium-grained biotite-cordierite-minor muscovite adamellite.

Dedg — Equigranular, fine-grained biotite-muscovite adamellite.

Dedpf — Porphyritic, fine-grained biotite-muscovite adamellite with phenocrysts of quartz and feldspar.

Dedpc — Variably porphyritic, coarse- to very coarse-grained biotite-garnet-minor muscovite granite / adamellite.

Dedbg — Equigranular, medium- to coarse-grained biotite-hornblende granodiorite.

BLUE TIER BATHOLITH — Dbt

Dbge — Equigranular, medium-grained, biotite-muscovite granite.

Dbgpf — Porphyritic, fine- to medium-grained biotite-muscovite adamellite with phenocrysts of quartz and feldspar.

Dbgps — Sparsely porphyritic, medium- to coarse-grained biotite-minor muscovite adamellite.

Dbgpc — Porphyritic, coarse-grained biotite adamellite.

Dbg — Equigranular, medium- to coarse-grained biotite-hornblende granodiorite.

Geological boundary — position approximate

Geological boundary — position inferred

Geological boundary — transitional

Fault — position approximate

Strike and dip of beds — right way up, overturned.

Strike and dip of beds — facing unknown, vertical.

Strike and dip of early primary cleavage and unspecified cleavage, vertical.

Strike and dip of late crenulation cleavage, vertical.

Direction and plunge of minor fold-hinge.

Strike and dip of foliation due to alignment of K-feldspar phenocrysts (>20 mm) in igneous rock, vertical.

Trend of apparent lineation of K-feldspar phenocrysts (>20 mm) on horizontal surface of igneous rock.

Trend of apparent lineation of small K-feldspar crystals (<10 mm) in Dedm.

Strike and dip of foliation due to alignment of mafic minerals in igneous rock, vertical.

Trend of apparent lineation of mafic minerals on horizontal surface of igneous rock.

Palaeocurrent trend.

Qe 9 / Qe 8 / 13 — Borehole with depth in metres of rock-type encountered and final depth.

Waterbore — Down Hole Hammer and Rotary.

Auger Hole.

Qha 0-10 / 200g/m³ (Sn) — Percussion hole with depth of alluvium to granodiorite bedrock. Whole of hole value — tin metal. (From B.M.I. Mining Pty. Ltd., Musselroe Swamp Drilling Programme, Report 72-843, Sept. 1971).

Small outcrop.

Mine. (Sn — Tin).

Mine — abandoned. (Au — Gold).

Quarry or Gravel Pit. (Gr — Gravel).

Quarry or Pit — abandoned. (Sand).

Alluvial workings. (Sn — Tin).

Alluvial workings — abandoned.

Road

Vehicular track

Trigonometric Station

National Park Boundary

UNIVERSAL GRID REFERENCE

GRID ZONE DESIGNATION 55G

100 000 METRE SQUARE IDENTIFICATION: EQ FQ

HONORS the SMALLER figures of any grid number; these are for finding the full co-ordinate. Use ONLY the LARGER figure of the grid number. Example: 120mE

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METRES

SAMPLE POINT: ⚠ MOUNT WILLIAM

1. Read letters identifying 100 000 metre square in which point lies: EQ
2. Locate first VERTICAL grid line to LEFT of point and read LARGE figure labelling the line in either the top or bottom margin: 99
3. Estimate tenths from grid line to point: 4
4. Locate first HORIZONTAL grid line BELOW point and read LARGE figure labelling the line in either the left or right margin: 70
5. Estimate tenths from grid line to point: 6

SAMPLE REFERENCE: EQ994706

If reporting beyond 18° in any direction prefix grid zone designation, ie: 55GEQ994706

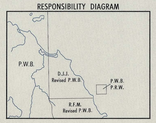
HORIZONTAL DATUM: Australian Geodetic Datum 1966.
GRID: Black numbered lines are 10 000 metre intervals of the Australian Map Grid, Zone 55.
NOMENCLATURE: Topographic names on this sheet have been approved by the Nomenclature Board of Tasmania.
PROJECTION: Transverse Mercator Projection.
VERTICAL DATUM: Australian Height Datum.
MAGNETIC VARIATION: For the centre of this sheet approximately 13°30'E. Annual change ~2'E.

KILOMETRES 0 1 2 3 4 5 6 7 8 KILOMETRES
MILES 0 1 2 3 4 5 MILES

SCALE 1:50 000

CONTOUR INTERVAL 20 METRES

RESPONSIBILITY DIAGRAM



Geology by P. W. BAILLIE B.Sc., with acknowledgments to
D. J. Jennings, B.Sc. (Hons), R. F. McGhee, B.Sc., and P. R. Williams, B.Sc. (Hons), Ph.D.
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Geological map production by the Cartographic Section of the Geological Survey,
Department of Mines, Hobart.
Cartography by J. H. Clarke.
E. Williams, B.Sc. (Hons), Ph.D., F.G.S., Supervising Geologist in charge of Regional Mapping.
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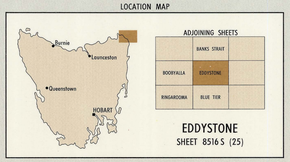
LOCATION MAP



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