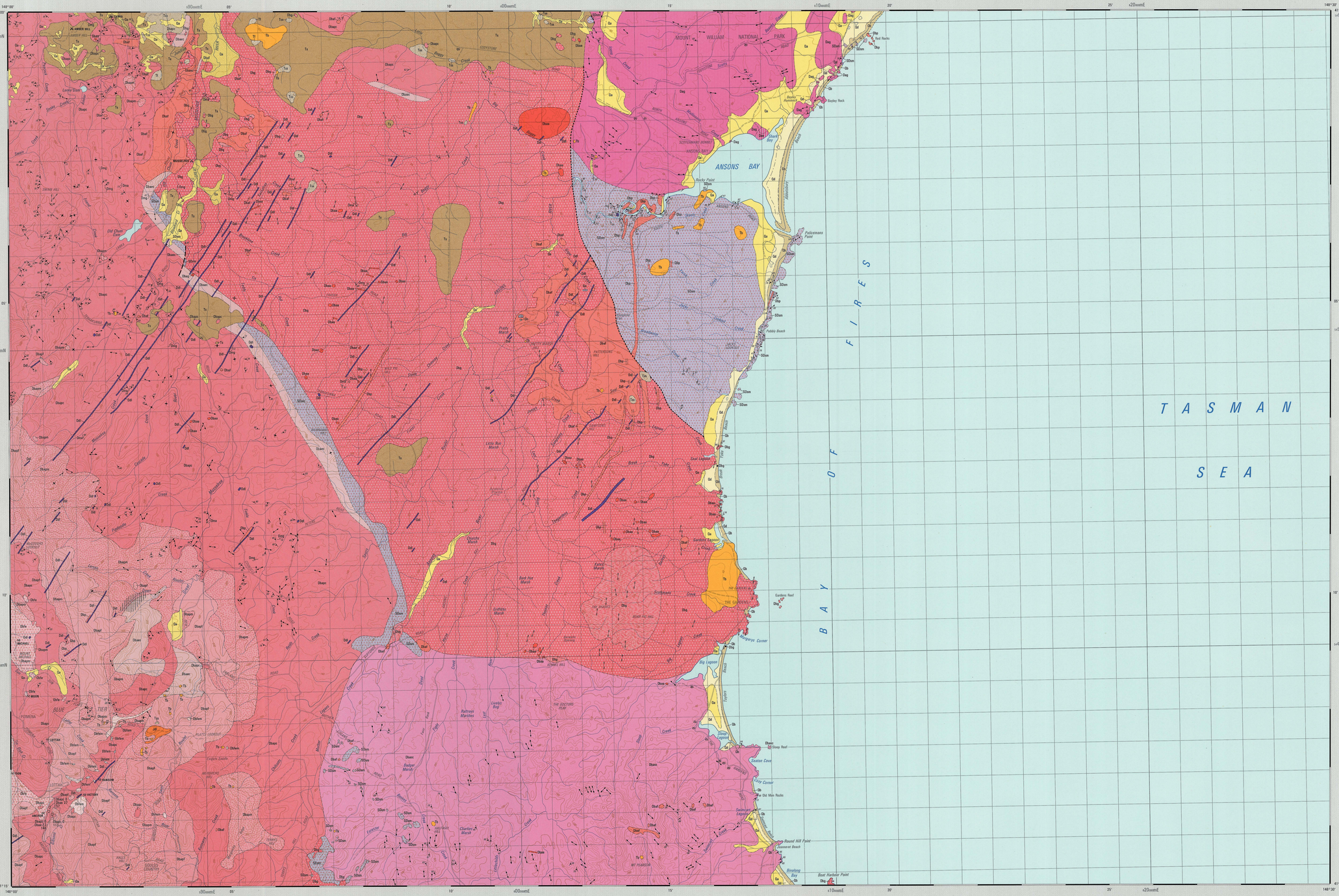
FIRST EDITION 1983

BLUE TIER

GEOLOGICAL SURVEY OF TASMANIA — DEPARTMENT OF MINES — HOBART

GEOLOGICAL ATLAS 1 : 50 000 SERIES SHEET 8515 N



REFERENCE

CAINOZOIC — QUATERNARY

- Qa — River alluvium, swamp and marsh deposits; man disturbed deposits ( ).
- Qb — Beach sand.
- Qd — Dune sand.

Erosional surface.

CAINOZOIC — TERTIARY

- Tr, Ts, Tco — Gravel, sand and mud with rare granule conglomerate (Ts). Ferricrete (Tr) and silcrete (Tco) indicated.

Angular unconformity.

PALAEOZOIC — DEVONIAN–SILURIAN (?)

- SDpm — Contact metamorphic psammite and spotted pelite (Mathinna Beds).

IGNEOUS ROCKS

TERTIARY

- Tb — Alkali-olivine basalt.

JURASSIC

- Jdl — Dolerite at (EQ 085378).

DEVONIAN (?)

- Dn — Altered andesite.
- Dd — Dolerite (commonly containing iron sulphide).

DEVONIAN

- Dsa — Dsag — Porphyritic to seriate coarse-grained biotite-garnet-minor muscovite adamellite (Ansons Bay Adamellite).
- Dsa — Dsaq — Equigranular coarse-grained biotite adamellite at (EQ 080565).

BLUE TIER BATHOLITH
MINOR GRANITIC INTRUSIONS

- Dfp — Quartz-feldspar porphyry.
- Dbaa — Aplitic granite (Dbaa), garnetiferous granite (Dbag) at (EQ 898523).

Areas of abundant microgranite intrusion indicated by overprint ( ).

MAJOR GRANITIC INTRUSIONS

- Dbr — Equigranular fine - to coarse-grained biotite-white mica alkali-feldspar granite.
- Dbfem — Equigranular fine - to coarse-grained alkali-feldspar granite with large pale brown mica aggregates and pegmatite patches.
- Dbaf — Equigranular fine-grained biotite-muscovite granite/adamellite.
- Dbaa — Equigranular fine-grained aplitic granite/adamellite.
- Dbac — Equigranular coarse-grained biotite adamellite.
- Dbapm — Porphyritic medium-grained biotite-minor muscovite adamellite.
- Dbapf — Porphyritic fine-grained biotite-muscovite adamellite with abundant small plagioclase phenocrysts; variably porphyritic leucocratic muscovite rich variety ( ).
- Dbapc — Porphyritic coarse-grained biotite and biotite-minor muscovite adamellite.
- Dbasc — Porphyritic to seriate coarse-grained biotite-minor muscovite adamellite.
- Dbg — Medium - to coarse-grained biotite-hornblende granodiorite; without hornblende ( ). Diorite ( ) at (EQ 899575) and gabbroic ( ) areas indicated.

Geological boundary — position approximate.
Geological boundary — position inferred.
Fault — position approximate.
Fault — position inferred.
Strike and dip of beds — rightway up, overturned. Facing known from sedimentary structures.
Strike and dip of beds — facing unknown, vertical.
Strike and dip of cleavage of unspecified age, vertical.
Strike and dip of earlier cleavage, vertical.
Strike and dip of later cleavage, vertical.
Direction and plunge of minor fold hinge with dip of axial surface indicated.
Strike and dip of foliation due to alignment of K-feldspar phenocrysts in igneous rock, vertical.
Trend of apparent lineation of K-feldspar phenocrysts on horizontal surface of igneous rock.
Strike and dip of foliation due to alignment of hornblende and/or biotite in igneous rock, vertical.
Trend of apparent lineation of hornblende and/or biotite on horizontal surface of igneous rock.
Strike and dip of vein, vertical; quartz (q); aplite (Dlaq); fine-grained granite/adamellite (Dlag).
Palaeocurrent trends.
Small outcrop.
Borehole with depth in metres of rock-type encountered and final depth.
Mine. (Sn — Tin).
Mine — abandoned. (Sn — Tin).
Quarry or Gravel Pit. (Gr — Gravel).
Quarry or Pit — abandoned. (Gr — Gravel).
Alluvial workings. (Sn — Tin).
Alluvial workings — abandoned. (Sn — Tin).

Road
Vehicular track
Trigonometric Station
National Park Boundary

UNIVERSAL GRID REFERENCE

GRID ZONE DESIGNATION 55G

100 000 METRE SQUARE IDENTIFICATION: EQ, FQ, GQ

IGNORE the DRIVER figures of any grid number; these are for finding the full co-ordinates. Use ONLY the LARGER figures of the grid number. Example: 420000

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

SAMPLE POINT: THE GARDENS' ⊕ 14

1. Read letters identifying 100 000 metre square in which point lies: FQ
2. Locate four VERTICAL grid line to LEFT of point and read LARGE figure labelling the line in either the top or bottom margin: 07
3. Estimate tenths from grid line to point: 4
4. Locate four HORIZONTAL grid line BELOW point and read LARGE figure labelling the line in either the left or right margin: 42
5. Estimate tenths from grid line to point: 1

SAMPLE REFERENCE: FQ0741421

If reporting beyond 10° in any direction prefix grid zone designation, ie: 55GFQ0741421

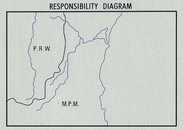
HORIZONTAL DATUM: Australian Geodetic Datum 1966.
GRID: Black numbered lines are 10 000 metre intervals of the Australian Map Grid, Zone 55.
NOMENCLATURE: Topographic names on this sheet have been approved by the Nomenclature Board of Tasmania.
PROJECTION: Transverse Mercator Projection.
VERTICAL DATUM: Australian Height Datum.
MAGNETIC VARIATION: For the centre of this sheet approximately 13°30'E. Annual change +3'E.

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

SCALE 1:50 000

CONTOUR INTERVAL 20 METRES

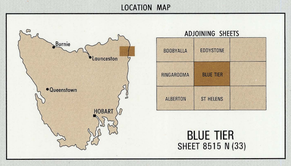
RESPONSIBILITY DIAGRAM



Geology by M. P. McClenaghan, B.Sc. (Hons), Ph.D.; P. R. Williams, B.Sc. (Hons), Ph.D.
Base map redrawn from Georges Bay 1 : 100 000 map, produced by the Lands Department, Hobart.
Geological map production by the Cartographic Section of the Geological Survey, Department of Mines, Hobart.
Cartography by C. A. Meech.
E. Williams, B.Sc. (Hons), Ph.D., F.G.S., Supervising Geologist in charge of Regional Mapping.
I. B. Jennings, B.Sc. (Hons), Chief Geologist.
Compiled under the direction of H. Muchlus, B.Sc., Director of Mines
Issued under the authority of the Minister for Mines.
Published 1983

CROWN COPYRIGHT RESERVED

LOCATION MAP



ADJOINING SHEETS

BOOBYALLA	EDDYSTONE	
RINGAROOMA	BLUE TIER	
ALBERTON	ST HELENS	

BLUE TIER
SHEET 8515 N (33)