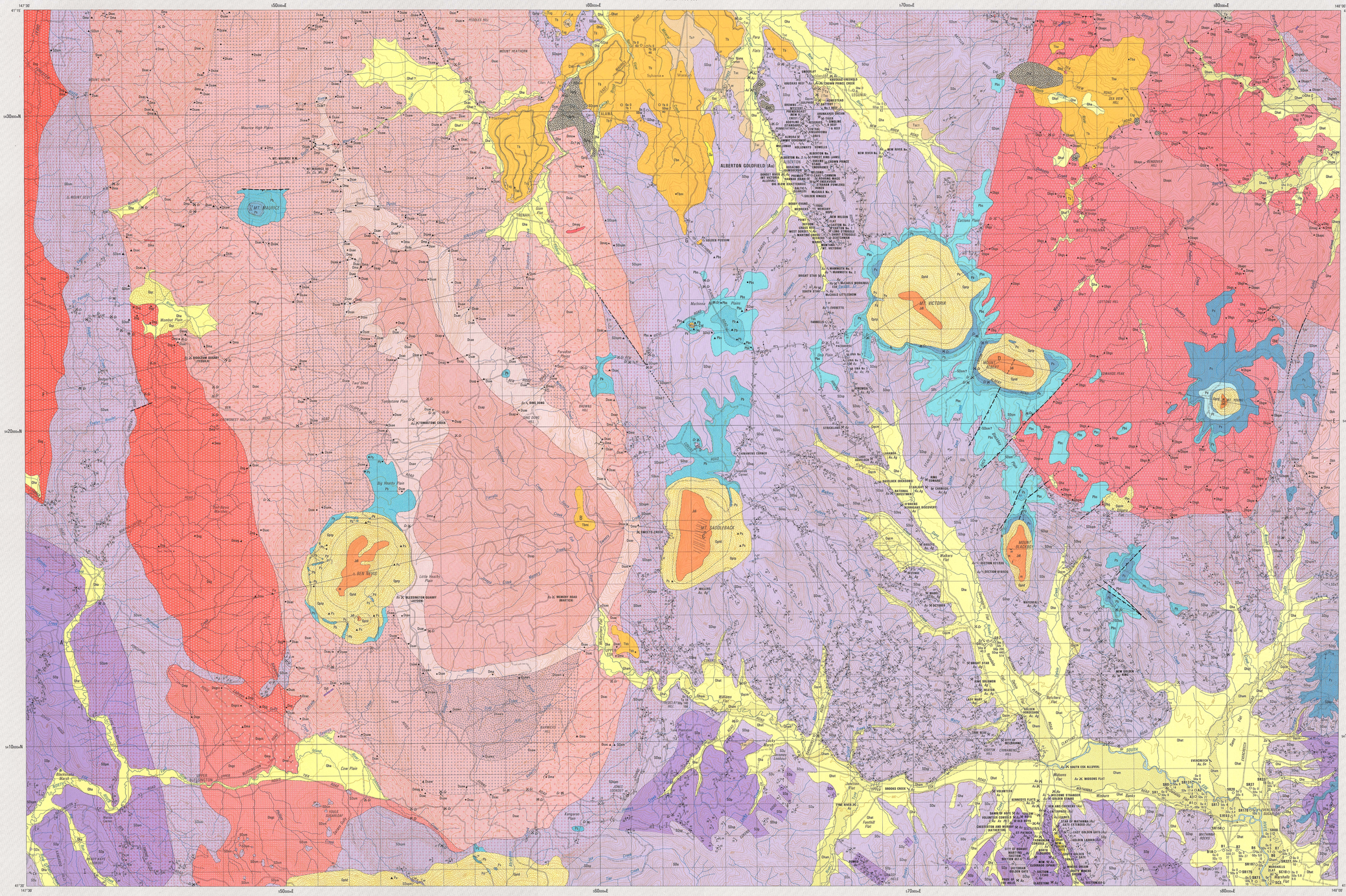
ALBERTON

GEOLOGICAL SURVEY OF TASMANIA — DEPARTMENT OF MINES — HOBART

GEOLOGICAL ATLAS 1 : 50 000 SERIES — SHEET 8415S FIRST EDITION 1993

SCALE 1 : 50 000

1 0 1 2 3 4 5 6 KILOMETRES



REFERENCE

CAINOZOIC

QUATERNARY — PLEISTOCENE — HOLOCENE

- Qhm — *Mine tailings and man disturbed ground.*
- Qha — *Alluvium and marsh deposits; of modern flood plains (Qham) indicated ; of high terraces (Qhat); forming fans (Qhaf).*
- Qpc — *Colluvium; derived from Mathinna Beds (Qpcm).*
- Qpt — *Talus, scree and rare tiff; consisting of dominantly dolerite boulders (Qptd); of dolerite and subordinate Lower Parmeener Supergroup boulders (Qptp); of dominantly granitic boulders (Qptg).*
- *Probably older boulder deposits; consisting of dominantly dolerite (Cd); of Lower Parmeener Supergroup conglomerate and sandstone (Cp).*

Erosional surface

TERTIARY

- Tr — *Silts, sand and gravels (Ts); sands and gravels cemented by iron oxides (Tsf); conglomerate with rounded clasts of Mathinna Beds and very rare weathered dolerite, often partially cemented by iron oxides (Tsc).*
- Tg — *Quartz granule gravel probably derived from granitic rocks.*
- Tb — *Basanite (Tbb) and olivine nephelinite (Tbn). Probable age c.16Ma in the Ringarooma-Talawa area.*
- Tv — *Volcanic breccia, containing angular clasts of Mathinna Beds and olivine-rich basaltic material, known only from an inferred pyroclastic vent, intersected in a drill hole at ED630115.*
- Ta — *Alkali olivine basalt (Tba) and basanite (Tbb) in the West Pyengana area. Age 47.4 ± 0.6 Ma at ED771312.*
- Ts — *Basaltic agglomerate and tuff near ED800330*

Low angle unconformity.

PALAEOZOIC

PERMIAN — LOWER PARMEENER SUPER GROUP — TASMANIAN STAGE — BERMACCIAN STAGE — **REKOMIAN SERIES**

- Pt — *Mudstone and siltstone with abundant marine fossils, at ED691239.*
- Pd — *Fine-grained sandstone with phosphatic nodules, at ED786204*
- Pv — *(Pd — Foothill Sandstone Member).*
- Pf — *Grey mudstone and siltstone (Pv, Pf, Pd — Castle Carey Mudstone.)*
- Pa — *Dominantly well-sorted quartz sandstone, usually cross-bedded or laminated, with minor carbonaceous shale (Pa — Aberfoyle Formation).*
- Pb — *Mudstone, siltstone and poorly sorted sandstone, with marine fossils in places (Pb); dominantly thick-bedded to massive, medium to coarse-grained quartz sandstone and minor conglomerate (Pba). (Pb, Pba — correlates of the Strickland Gorge Formation).*

Angular unconformity

EARLY DEVONIAN (?) SILURIAN-ORDOVICIAN (?) — MATHINNA BEDS

- SDs — *Quartzwacke turbidite sequence of interbedded sandstone, siltstone and mudstone (SDs); sequences with significant mudstone indicated (SDsp); dominantly sandstone and siltstone (SDs); some quartzite units indicated (SDsq).*
- SDp — *Dominantly mudstone and siltstone (SDp).*

Metapsammite (SDsm, SDspm), metaquartzite (SDqsm) and metapelite (SDpm SDspm) contact metamorphosed by granitic intrusions indicated by overprint ( ).

IGNEOUS ROCKS

TERTIARY

- Tb — *Alkali olivine basalt (Tba); basanite (Tbb) and olivine nephelinite (Tbn). Presence of lherzolite nodules indicated (Tbbx, Tbnx).*

JURASSIC

- Jd — *Dolerite — grain size 0.2-0.7mm (f) and 0.7-1.5mm (m) indicated.*

DEVONIAN (?)

- Dd — *Dolerite dykes (ED749326, ED826325, ED513116).*

DEVONIAN

- Dmp — *Aplite and aplitic granite (Dmap).*
- Dmg — *Quartz-feldspar porphyry.*
- Dmm — *Fine-grained quartz monzonite (ED827190).*

MAJOR GRANITIC INTRUSIONS
SCOTTSDALE BATHOLITH

- Dsac — *Generally equigranular medium to coarse-grained, leucocratic biotite alkali-feldspar granite/adamellite with pale pink feldspar.*
- Dsap — *Sparsely to moderately porphyritic (quartz and K-feldspar), fine to coarse-grained, biotite granite/adamellite. Coarser grained in southern part of pluton. (Dsac, Dsap — Tombstone Creek pluton).*
- Dsbc — *Equigranular, coarse to very coarse-grained, biotite ± hornblende, adamellite/granodiorite, with pale pink to white feldspar. Hornblende- and white feldspar-bearing granodiorite in southern part of pluton. (Dsbc — Russells Road pluton).*
- Dsbp — *Variably equigranular, seriate or sparsely porphyritic (K-feldspar phenocrysts up to 30mm), medium- to coarse-grained biotite ± hornblende adamellite/granodiorite; variety with very abundant fine- to coarse-grained quartz diorite xenoliths indicated (Dsawx). Hornblende-bearing granodiorite in southern part of pluton (Dsaw, Dsawx — Hogarth Road pluton).*
- Dsgc — *Equigranular to seriate (K-feldspar) coarse- to very coarse-grained biotite-hornblende granodiorite (Dsgc); very coarse-grained (>10mm) variety indicated (Dsgcc) (Dsgc, Dsgcc — Upper Blessington pluton).*
- Dsg — *Equigranular, medium- to coarse-grained biotite-hornblende granodiorite. (Dsg — Porcupine Creek pluton and, in the extreme west, Cuddlum pluton).*

BLUE TIER BATHOLITH

- Dbapc — *Coarse-grained porphyritic (K-feldspar) to equigranular, biotite- and biotite-muscovite, granite/adamellite (Dbapc-Poimena pluton).*
- Dbg — *Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite and subordinate biotite granodiorite. Locally with a strong grain foliation. Variable but usually strongly magnetic (*, typically 2 to 8 × 10^{-3} (Dbgc). Weakly magnetic (*< 0.5 × 10^{-3}) zones (Dbgw) indicated by overprint ( ). Variety without hornblende (Dbgnh) indicated. (Dbg, etc — Pyengana pluton).*
- Dbh — *Coarse-grained, equigranular to porphyritic (K-feldspar) biotite adamellite, (generally more melanocratic than Dbapc). In northern part of body, grading to biotite ± hornblende adamellite/granodiorite (Dbhb) with locally developed grain foliation. (Dbh, Dbhb — Halleys New Country pluton).*

Geological boundary — position approximate.
Geological boundary — inferred.
Geological boundary — transitional.
Airphoto lineament.
Normal fault — position approximate, downthrown side indicated.
Fault, type not specified — position approximate.
Fault — inferred.
Strike and dip of beds — right way up; overturned; facing unknown.
Vertical bedding, facing indicated; facing unknown.
Horizontal bedding.
Generalised palaeocurrent direction.
Strike and dip of primary cleavage; vertical.
Strike and dip of later cleavage; vertical.
Direction and plunge of bedding/primary cleavage intersection lineation; horizontal.
Direction and plunge of minor fold hinge line.
Strike and dip of kink band with sense of displacement viewed down dip-sinistral, dextral.
Vertical kink band -sinistral, dextral.
Direction and plunge of chevron fold hinge line; vertically plunging.
Strike and dip of dominant joint set; vertical.
Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock; vertical.
Trend of apparent lineation of K-feldspar phenocrysts on horizontal surface of granitic rock.
Strike and dip of foliation due to alignment of hornblende and/or biotite in granitic rock; vertical.
Trend of apparent lineation of hornblende and/or biotite on horizontal surface of granitic rock.
Strike and dip of dyke or vein with rock type indicated; vertical.
Macrofossil locality.
Field station for adjacent readings on map.
Notable small outcrop.
Notable float or lag occurrence.
Borehole with identification number, depths in metres to rock types encountered, and final depth.
Inclined borehole, showing projection in horizontal plane and inclination; down-hole distances in metres.
Scarp at edge of basalt plateau; ticks down slope.

Major mine — closed (New Golden Gate, EP745056; production 7197 kg. Au.).
Mine abandoned. Prospect — little or no production.
Alluvial workings — abandoned. Alluvial prospect.
Quarry or pit — operating. Quarry or pit — abandoned.

Ag — silver, As — arsenic, Au — gold, Bi — bismuth, Cu — copper, Cy — clay, Mo — molybdenum Pb — lead, Sn — tin, Zn — zinc.
(from J. Taheri, Tas. Dept. Mines Rep. 1992/10 and Mineral Resource Location and Characterisation database, R. Berrill.
Gc — gravel, Gs — building stone (partly from Construction Materials Register, B.D. Waldron).

Geology by M. P. McClenaghan, B.Sc. (Hons.), Ph.D.; J. L. Everard, B.Sc. (Hons.); B. D. Guscombe, B.Sc. (Hons.), Ph.D.; R. H. Findlay, B.A. (Hons.), Ph.D.; C. B. Calver, B.Sc. (Hons.)
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Chief Geologist in charge of Regional Mapping C. Williams, B.Sc. (Hons.), Ph.D., F.G.S.
Compiled under the direction of M. R. Hargreaves — Deputy Secretary.
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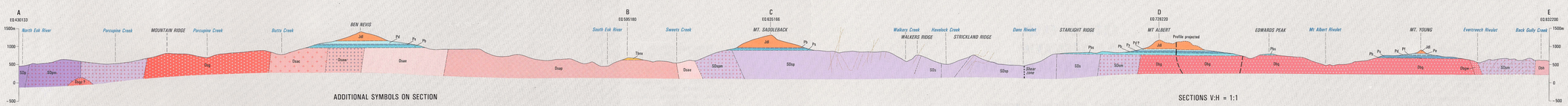
A
EQ430133
North Esk River
Porcupine Creek
MOUNTAIN RIDGE
Porcupine Creek
Butts Creek
BEN NEVIS
B
EQ595180
South Esk River
Sweets Creek
C
EQ635166
MT. SADDLEBACK
Walkary Creek
Havelock Creek
WALKERS RIDGE
STRICKLAND RIDGE
Dans Rivulet
STARLIGHT RIDGE
D
EQ728220
MT ALBERT
Profile projected
EDWARDS PEAK
Mt Albert Rivulet
MT. YOUNG
Evercreech Rivulet
Back Gully Creek
E
EQ832200
1500m
1000
500
0
-500
Dsap
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