MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
TYNDALL, SHEET 3835

TYNDALL

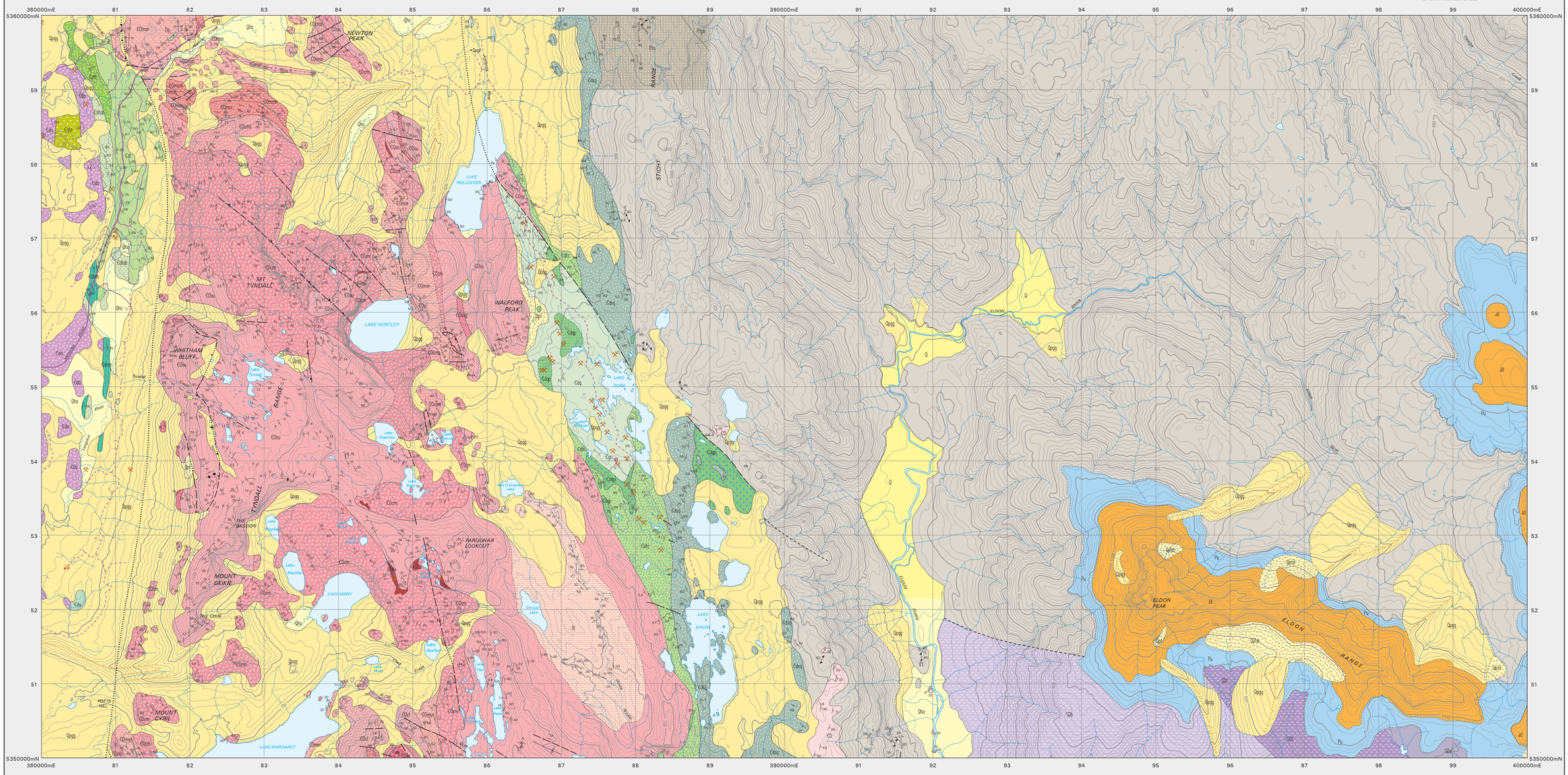
Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA

Tasmania

DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY — HOLOCENE

- **Qha** — Alluvium, swamp and marsh deposits (Qha).
- **Qpt** — Talos and scree deposits (Qpt).
- **Qpfd** — Talos derived from dolerite (Qpfd).

PLEISTOCENE

- **Qpgg** — Glacial deposits, usually bouldery (Qpgg), including local occurrence of dolerite, derived erratic at 383920mE, 5360600mN (Qpgg).

PALAEOZOIC

PERMIAN

- **Pu** — Undifferentiated sedimentary rocks (Pu).

DEVONIAN — LOWER PARMENEER SUPERGROUP

- **SDb** — Mudstone, siltstone, minor fine–grained sandstone and rare limestone (correlate of Bell Formation) (SDb).

SILURIAN — ELDON GROUP — VIVIPAWINA SUPERGROUP

- **SDf** — Fine–grained quartz sandstone with minor siltstone and mudstone (correlate of Florence Formation) (SDf).
- **SDa** — Mainly mudstone and siltstone with minor sandstone and rare limestone (correlates of Amber Formation) (SDa).

ORDOVICIAN — GORDON GROUP

- **Ol** — Limestone with minor siltstone and sandstone (Ol).

PALAEOZOIC — LATE CAMBRIAN — Є

- **Єsu** — Upper unit of mostly pink sandstone and granule–pebble conglomerate with subordinate siltstone. Clasts of chert common. Upper Owen Sandstone and correlates (Єsu).
- **Єsug** — Units of grey sandstone, siltstone and conglomerate (Єsug).
- **Єsuc** — Units of coarser pebble–cobble conglomerate (Єsuc).
- **Єhe** — Bedded hematite and hematitic sandstone, developed as basal facies on erosion surface in some areas (Єhe).
- **Єcm** — Pebble–cobble to cobble–boulder conglomerate, thick–bedded to massive, with minor sandstone lenses. Middle Owen Conglomerate and correlates (Єcm).
- **Єcms** — Unit of interbedded conglomerate and sandstone (Єcms).
- **Єmsn** — Mainly thin–bedded pink sandstone and pebbly sandstone with bands of pebble conglomerate, minor siltstone. (Correlate of Middle Owen Sandstone) (Єmsn).
- **Єmsn** — Interbedded micaceous sandstone, siltstone and siliciclastic pebble conglomerate, mostly grey in colour. Marine fossils in places. Newton Creek Sandstone and correlates (Єmsn).
- **Єmsnh** — Dominantly siltstone and shale (Єmsnh).
- **Єmsl** — Impure limestone and calcareous sandstone (Єmsl).
- **Єmsc** — Unit of pebble conglomerate (Єmsc).
- **Єcl** — Pebble–cobble to cobble–boulder conglomerate, generally thick–bedded to massive with minor sandstone lenses, white to pink in colour. Lower Owen Conglomerate and correlates (Єcl).
- **Єcls** — Unit of pink sandstone and pebbly sandstone (Єcls).
- **Єclc** — Thick–bedded to massive cobble–boulder conglomerate units. Erosional unconformity at base in some areas (Єclc).
- **Єvc** — Volcaniclastic conglomerate, breccia and sandstone, usually at base of sequence. Includes correlate of Jukes Conglomerate (Єvc).

OWEN GROUP — VIVIPAWINA SUPERGROUP

PALAEOZOIC — MIDDLE CAMBRIAN

TYNDALL GROUP

- **Єdt** — Interbedded volcaniclastic and volcanic rocks, typically quartz–feldspar–phyric (Єdt).
- **Єdtc** — Dominantly volcaniclastic conglomerate and sandstone (Єdtc).
- **Єdtl** — Felsic lava, usually quartz–feldspar–phyric (Єdtl).
- **Єdtsh** — Siltstone–shale units (Єdtsh).
- **Єdtab** — Andesitic breccia and volcaniclastic sandstone (Єdtab).
- **Єda** — Andesitic lava, breccia and related intrusive rocks (Єda).

EASTERN QUARTZ–PHYRIC SEQUENCE

- **Єdq** — Interbedded volcanic and volcaniclastic rocks and intrusive porphyries, typically quartz–feldspar–phyric (Єdq).
- **Єdqp** — Felsic porphyry typically quartz–feldspar–phyric, includes extrusive and intrusive bodies (Єdqp).
- **Єdqs** — Siliciclastic conglomerate and sandstone with interbedded micaceous siltstone and minor volcaniclastic rocks (Sticht Range Beds) (Єdqs).

CENTRAL VOLCANIC COMPLEX

- **Єdv** — Dominantly feldspar–phyric volcanic and volcaniclastic rocks (Єdv).
- **Єda** — Andesitic lava, breccia and related intrusive rocks (Єda).

MOUNT READ VOLCANICS

PROTEROZOIC — MESO–PROTEROZOIC — Pt

TYENNAN REGION METASEDIMENTS

- **Pts** — Dominantly quartzite (Pts).
- **Ptps** — Interlayered phyllite and quartzite (Ptps).

INTRUSIVE ROCKS

MESOZOIC — JURASSIC

- **Jd** — Dolerite (Jd).

PALAEOZOIC — ORDOVICIAN

- **Op** — Quartz porphyry intrusive within Owen Group (Op).

PALAEOZOIC — CAMBRIAN — MT READ VOLCANICS

- **Єqfp** — Quartz–feldspar +/– biotite porphyry, mostly intrusive but may be partly extrusive (Єqfp).
- **Єdqp** — Felsic porphyry, typically quartz–feldspar–phyric, includes extrusive and intrusive bodies (Єdqp).
- **Єdqpi** — Mainly intrusive quartz–feldspar porphyry (Єdqpi).
- **Єgr** — Granite (Єgr).

- Geological boundary – position approximate
- Geological boundary – inferred
- Fault – position approximate
- Fault – inferred
- Fault – concealed
- Fault – position approximate, downthrown side indicated.
- Fault – concealed, downthrown side indicated.
- Thrust fault – position approximate, teeth on upper plate.
- Thrust fault – concealed, teeth on upper plate.
- Axial surface trace of major fold, antiform
- Axial surface trace of major fold, synform
- Moraine ridge crests.

- Strike and dip of bedding – right way up; overturned; facing unknown.
- Strike of vertical bedding, facing unknown.
- Horizontal bedding
- Strike and dip of compositional layering.
- Strike and dip of cleavage of unspecified type and relative age; vertical.
- Strike and dip of cleavage or foliation, relative local age S1
- Strike and dip of cleavage or foliation, relative local age S2.
- Strike and dip of cleavage or foliation, relative local age S3.
- Trend and plunge of minor fold hinge line, unspecified relative age.
- Trend and plunge of hinge line of unspecified relative age, minor antiform; minor synform.
- Strike and dip of dominant joint set; vertical.
- Strike and dip of igneous banding or platy alignment.
- Trend and plunge of minor fold hinge line, unspecified relative age; relative local age F2.
- Field station for adjacent readings on the map.
- Macrofossil location.
- Mineral deposit location – hardrock
- Mineral deposit location – alluvial
  (Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.)
- Construction materials location – Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

Compiled by CORBETT, K.D.; and SEYMOUR, D.B. 1995 from the following sources (see Responsibility Diagram):

A CORBETT, K.D.; JACKSON, J.C.; 1987. Geology of the Tyndall Range area. Mt Read Volcanics Project Map 5. Department of Mines, Tasmania.

B Air photo interpretation by D.B. Seymour with additional information from Mt Read Volcanics Project Map 6.

C Revised and updated after WTRMP studies by K.D. Corbett, 2003.

RESPONSIBILITY DIAGRAM

A,C	B

LOCATION DIAGRAM

ADJOINING SHEETS

DUNDAS	SELINA	ACHILLES
OCEANA	TYNDALL	DOME
PROFESSOR	DORMANSTON	GOULDS

1:25000 maps available.

TYNDALL 3835

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AGD66 - AMG Zone 55. Contour Interval: 20 metres.

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