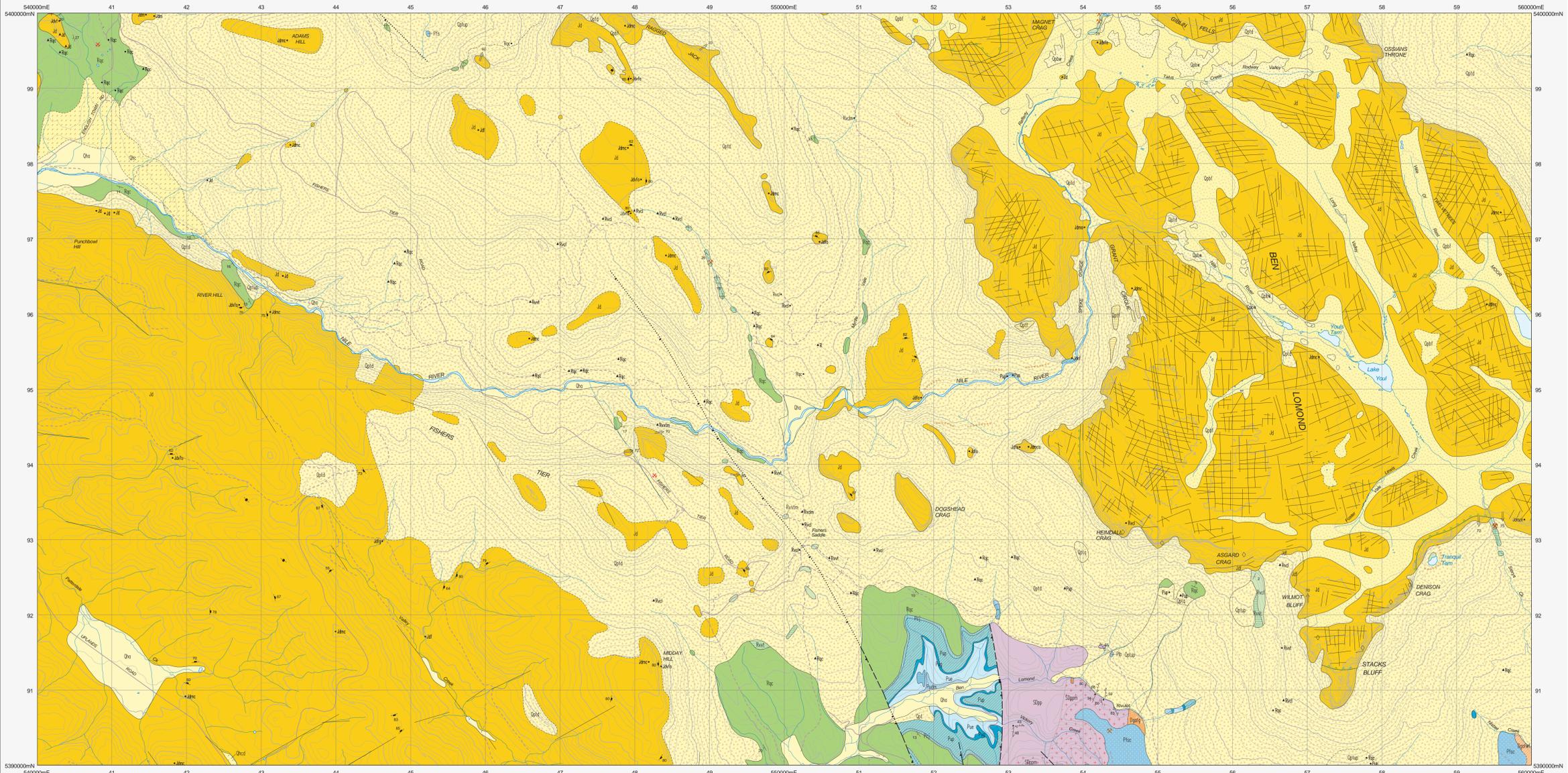
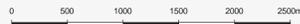


STACKS

Scale: 1:25 000



CENOZOIC	
QUATERNARY	
Qha	Stream alluvium and swamp deposits (Qha).
Qpc	Colluvium (Qpc). Colluvium-stony gravel derived from dolerite (Qhcd).
Qpb	Dolerite block fields probably underlain by clay from weathered dolerite, with interstitial fines and unvegetated (Qpb).
Qsbw	Dolerite block fields probably underlain by clay from weathered dolerite, without interstitial fines and unvegetated (Qsbw).
Qpt	Taluk (Qpt): dominance of dolerite boulders (Qptg) of dolerite and subordinate Upper Permian rocks (Qptu), dominance of Upper Permian quartz sandstone (Qptq).
Qptf	Topped dolerite masses (>100m), coherent or partly disaggregated, produced by cliff failure (Qptf).
Low-angle unconformity.	

MESOZOIC	
TRIASSIC	
Trvc	Dominantly striae sandstone with minor mudstone and coal (Trvc); dominantly mudstone (Trvcm).
Trvt	Quartz-rich striae sandstone and minor quartz sandstone (Trvt); with mudstone and carbonaceous mudstone (Trvcm).
Trqc	Coarse-bedded quartz sandstone (Trqc).
Trp	Fine-grained slightly leucoplastic quartz sandstone, micaceous shale and minor carbonaceous mudstone (correlate of Jackey Formation) (Trp).
Trpp	Poorly sorted grey mudstone, siltstone and rare sandstone, unfossiliferous except for rare foraminifera (Fossiliferous Creek Mudstone) (Trpp).
Trps	Thin bedded, usually poorly sorted, pebbly sandstone passing up into interbedded sandstone, siltstone and mudstone. Marine fossils abundant (Mudstone Sandstone) (Trps).
Trpm	Dominantly bioclastic limestone (Barni Gully Limestone) (Trpm).
Trpu	Marine fossiliferous mudstone, siltstone and minor sandstone and calcareous limestone (Trpu).
Trpv	Fine-grained pebbly sandstone with phosphatic nodules; marine fossils present in some areas. Until about 2m thick (Fossiliferous Sandstone Member) (Trpv). Mudstone, siltstone and minor poorly sorted sandstone. (Uncertain marine fossils) (Trpv).
Trpudm	(Pue, Pui, Pum - Castle Cary Mudstone)
Trps	Dominantly fine-grained, well sorted quartz sandstone, commonly with interbedded fine-grained carbonaceous shale, subordinate conglomerate and rare coal (Trps); dominantly very coarse-grained arkosic sandstone and granite conglomerate (Trsc) (Trsc - Aberfoyle Formation).
Trpb	Poorly sorted pebbly mudstone, sandstone and minor conglomerate (Trpb).

MESOZOIC	
DEVONIAN	
Dg	Aplite (Dg).
Dgpg	Fine- to medium-grained porphyritic with quartz and K-feldspar phenocrysts, alkali feldspar granite (Dgpg).
Dgsk	Fine- to medium-grained equigranular alkali feldspar granite (Dgsk).

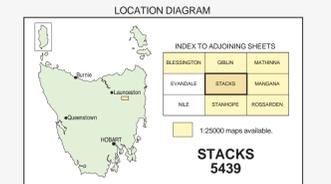
MESOZOIC	
JURASSIC	
Jd	Dolerite (Jd). Grain size and textural features indicated - extremely fine-grained (<0.2mm) (Jdf); very fine-grained (0.2-0.7mm) (Jdfv); fine-grained (0.7-1.5mm) (Jdfg); medium-grained (1.5-3.0mm) (Jdmg); coarse-grained (3.0-6.0mm) (Jdco); fine-grained (0.7-1.5mm) with interstitial glass (Jdfg); very fine-grained (0.2-0.7mm), fine-grained (<0.2mm), medium-grained (1.5-3.0mm) and medium- to coarse-grained (>3mm) with abundant poorly crystalline mesostasis (Jdmc).

MESOZOIC	
DEVONIAN	
Dg	Aplite (Dg).
Dgpg	Fine- to medium-grained porphyritic with quartz and K-feldspar phenocrysts, alkali feldspar granite (Dgpg).
Dgsk	Fine- to medium-grained equigranular alkali feldspar granite (Dgsk).

MESOZOIC	
PALEOZOIC	
Pg	Geological boundary - position accurate or approximate.
Pg	Geological boundary - inferred.
Pg	Marine ridge crest.
Pg	Limit of glacial smoothing of bedrock.
Pg	Photo lineament.
Pg	Normal fault, downthrown side indicated - position accurate or approximate.
Pg	Normal fault, downthrown side indicated - inferred.
Pg	Normal fault, downthrown side indicated - concealed.
Pg	Metamorphic boundary - position approximate.

/	Strike and dip of bedding, right way up, facing unknown.
+	Horizontal bedding.
/	Strike and dip of cleavage - relative local age S1.
/	Strike and dip of crenulation cleavage.
/	Trend and plunge of columnar jointing.
/	Vertical columnar jointing.
/	Strike and dip of dominant joint set, vertical.
*	Notable small outcrop.
*	Notable flat or lag occurrence.
*	Field station for adjacent reading on map.
*	Mineral deposit location - hardrock.
*	Construction material/industrial mineral/gemstone location.

Compiled by J.L. Everard, B.Sc.(Hons), 2006 from the following sources (see responsibility diagram):
 A CALVER, C.P., EVERARD, J.L., FINDLAY, R.H. & LENNOX, P.G. 1988. Geological Atlas 1:25 000 series, sheet 48 (8414) Ben Lomond. Tasmania Department of Mines.
 B BLAKE, F. 1959. Geological Atlas 1:63 360 series, sheet 76 (8412N) Longford. Tasmania Department of Mines.
 C J.L. Everard fieldwork 1988.
 D J.L. Everard fieldwork 2005.



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 EVERARD, J.L. (compiler) 2007. Digital Geological Atlas 1:25 000 Series. Sheet 5439 Stacks. Mineral Resources Tasmania.

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 GDAS4 - MGA Zone 55. Contour Interval: 20 metres.

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