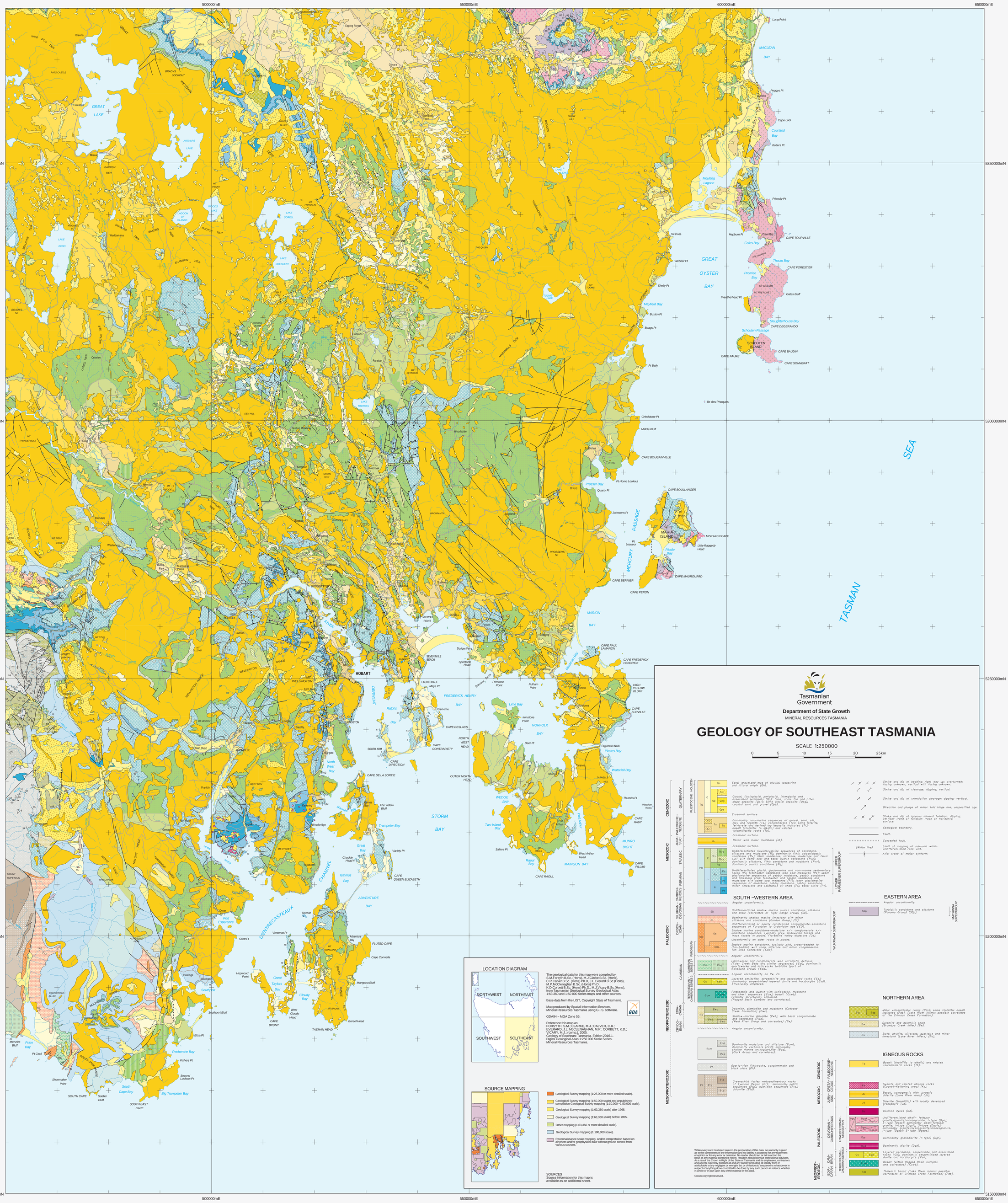
500000mE
550000mE
600000mE
650000mE
5350000mN
5300000mN
5250000mN
5200000mN
5150000mN
GREAT OYSTER BAY
MACLEAN BAY
MARION BAY
TASMAN SEA
MERCURY PASSAGE
STORM BAY
DENTRECASTEAUX CHANNEL
ADVENTURE BAY
FREDERICK HENRY BAY
NORFOLK BAY
WEDGE BAY
MAINGON BAY
HOBART
GREAT LAKE
Tasmanian Government
Department of State Growth
MINERAL RESOURCES TASMANIA
GEOLOGY OF SOUTHEAST TASMANIA
SCALE 1:250000
0 5 10 15 20 25km
CENOZOIC
QUATERNARY
HOLOCENE
PLEISTOCENE
MESOZOIC
JURA-CRETACEOUS
PALEOGENE-NEOGENE
TRIASSIC
PALEOZOIC
PERMIAN
CARBONIFEROUS
DEVONIAN
SILURIAN
ORDOVICIAN
CAMBRIAN
NEOPROTEROZOIC
EDIACARAN
CRYOGENIAN
MESOPROTEROZOIC
SOUTH –WESTERN AREA
EASTERN AREA
NORTHERN AREA
IGNEOUS ROCKS
LOCATION DIAGRAM
NORTHWEST
NORTHEAST
SOUTHWEST
SOUTHEAST
SOURCE MAPPING
The geological data for this map were compiled by S.M.Forsyth B.Sc. (Hons), M.J.Clarke B.Sc. (Hons), C.R.Calver B.Sc. (Hons) Ph.D, J.L.Everard B.Sc.(Hons), M.P.McClenaghan B.Sc. (Hons) Ph.D., K.D.Corbett B.Sc. (Hons) Ph.D., M.J.Vicary B.Sc.(Hons), from Tasmanian Geological Survey Geological Atlas 1:63 360 and 1:50 000 series maps and other sources.
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GDA94 – MGA Zone 55.
Reference this map as:
FORSYTH, S.M.; CLARKE, M.J.; CALVER, C.R.; EVERARD, J.L; McCLENAGHAN, M.P.; CORBETT, K.D.; VICARY, M.J.; (comp.). 2005.
Geology of Southeast Tasmania. Edition 2016.1.
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Mineral Resources Tasmania.
Geological Survey mapping (1:25,000 or more detailed scale).
Geological Survey mapping (1:50,000 scale) and unpublished compilation Geological Survey mapping (1:10,000 - 1:50,000 scale).
Geological Survey mapping (1:63,360 scale) after 1965.
Geological Survey mapping (1:63,360 scale) before 1965.
Other mapping (1:63,360 or more detailed scale).
Geological Survey mapping (1:100,000 scale).
Reconnaissance scale mapping, and/or interpretation based on air photo and/or geophysical data without ground control from various sources.
SOURCES
Source information for this map is available as an additional sheet.
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Strike and dip of bedding; right way up; overturned; facing unknown; vertical with facing unknown.
Strike and dip of cleavage; dipping; vertical.
Strike and dip of crenulation cleavage; dipping; vertical.
Direction and plunge of minor fold hinge line, unspecified age.
Strike and dip of igneous mineral foliation; dipping; vertical; trend of foliation trace on horizontal surface.
Geological boundary.
Fault.
Concealed fault.
Limit of mapping of sub-unit within undifferentiated rock unit.
Axial trace of major synform.
Angular unconformity.
Sand, gravel and mud of alluvial, lacustrine and littoral origin (Qh).
Glacial, fluvioglacial, periglacial, interglacial and associated sediments (Qp); talus, some fan and other slope deposits (Qpt); some glacial deposits (Qpg); coastal sand and gravel (Qps).
Erosional surface
Dominantly non–marine sequences of gravel, sand, silt, clay and regolith (Ts); conglomerate (Tc); some laterite, ferricrete and derived lag deposits indicated (Tf); basalt (Tb) and other igneous and related volcaniclastic rocks (Ti).
Erosional surface.
Basalt with minor mudstone (Jb).
Erosional surface.
Undifferentiated fluviolacustrine sequences of sandstone, siltstone and mudstone (Rl); dominantly lithic volcaniclastic sandstone (Rv); lithic sandstone, siltstone, mudstone and felsic tuff with some coal and basal quartz sandstone (Rvc); dominantly siltstone, lithic sandstone and mudstone (Rvs); dominantly quartz sandstone (Rq).
Undifferentiated glacial, glaciomarine and non–marine sedimentary rocks; glacial diamictite with coal measures (Pc); upper glaciomarine sequences of pebbly mudstone, pebbly sandstone and limestone (Pu); freshwater and paralic sandstone and mudstone with some coal measures (Pl); lower glaciomarine sequences of mudstone, pebbly mudstone, pebbly sandstone, minor limestone and tasmanite oil shale (Pd); basal tillite (Pt).
UPPER PARMEENER SUPERGROUP
LOWER PARMEENER SUPERGROUP
Angular unconformity.
Undifferentiated shallow marine quartz sandstone, siltstone and shale (correlates of Tiger Range Group) (SD).
Dominantly shallow marine limestone with minor siltstone and sandstone (Gordon Group) (Ol).
Undifferentiated or poorly constrained conglomerate–sandstone sequences of Furongian to Ordovician age (CO).
Shallow marine sandstone–mudstone +/– conglomerate +/– limestone sequences, typically grey, Ordovician fossils and trace fossils in places. Florentine Valley Mudstone (Os).
Unconformity on older rocks in places.
Shallow marine sandstone, typically pink, cross–bedded to thin–bedded, with some siltstone and minor conglomerate. Tim Shea Sandstone (CQs).
WURAWINA SUPERGROUP
Angular unconformity.
Lithic wacke and conglomerate with ultramafic detritus (Tyler Creek Beds and similar sequences) (Ccl); dominantly quartzwacke and lithic wacke turbidite (part of Ironbound Group) (Ccq).
Angular unconformity on P€, Pt.
Layered peridotite, serpentinite and associated rocks (Cs); dominantly serpentinised layered dunite and harzburgite (Csd). Structurally emplaced.
Feldspathic and quartz–rich lithic wacke, mudstone and chert sequences (Ccw); basalt (Ccwb). Probably structurally emplaced. (Rogged Basin Complex and correlates).
Dolomite, diamictite and mudstone (Calcoase Creek Formation) (P€c).
Shallow–marine dolomite (P€t); with basal conglomerate and sandstone (P€q). (Weld River Group and correlates) (P€).
Angular unconformity.
Dominantly mudstone and siltstone (Pcm); dominantly carbonate (Pcd); dominantly shallow marine orthoquartzite (Pcq). (Clark Group and correlates).
Quartz–rich lithic wacke, conglomerate and black slate (Ph).
Greenschist facies metasedimentary rocks of Tyennan Region (Pt); dominantly pelitic sequences (Ptp); quartzite sequences (Pts); dolomite (Ptd).
EASTERN AREA
Angular unconformity.
Turbiditic sandstone and siltstone (Panama Group) (SDp).
Mesoproterozoic MOUNT WELLINGTON SUPERGROUP
NORTHERN AREA
Mafic volcaniclastic rocks (P€e); some tholeiitic basalt indicated (P€b). (Lake River inliers; possible correlates of the Crimson Creek Formation).
Dolomite and dolomitic shale (Brumbys Creek inlier) (P€w).
Slate, phyllite, siltstone, quartzite and minor limestone (Lake River inliers) (P€o).
IGNEOUS ROCKS
Basalt (tholeiitic to alkalic) and related volcaniclastic rocks (Tb).
Syenite and related alkaline rocks (Lyngat–Kettering area) (Rk).
Basalt, comagmatic with Jurassic dolerite (Lune River area) (Jb).
Dolerite (tholeiitic) with locally developed granophyre (Jd).
Dolerite dykes (Dd).
Undifferentiated alkali– feldspar granite/granite/monzogranite, I–type (Dgd); S–type (Dgsd); dominantly granite/syenogranite/monzogranite, I–type (Dgst); S–type (Dgsts); dominantly granite/syenogranite/monzogranite, I–type (Dgss); S–type (Dgsss).
Dominantly granodiorite (I–type) (Dgr).
Dominantly diorite (Dgd).
Layered peridotite, serpentinite and associated rocks (Cs); dominantly serpentinised layered dunite and harzburgite (Csd).
Basalt (within Rogged Basin Complex and correlates) (Ccwb).
Tholeiitic basalt (Lake River inliers; possible correlates of Crimson Creek Formation) (P€b).
CENOZOIC
MESOZOIC
PALEOZOIC
NEOPROTEROZOIC
DEVONIAN–CARBONIFEROUS
LOWER DEVONIAN–MESOPROTEROZOIC
TERRENEUVIAN–CAMBRIAN SERIES 2
EDIA–CARAN
CAM–BRIAN
WARNING: INKS ARE LIGHT SENSITIVE
THIS MAP IS EDITION 2016.1
BASED ON A STATEWIDE DATASET
Data correct & plotfile generated: 19-OCT-2018