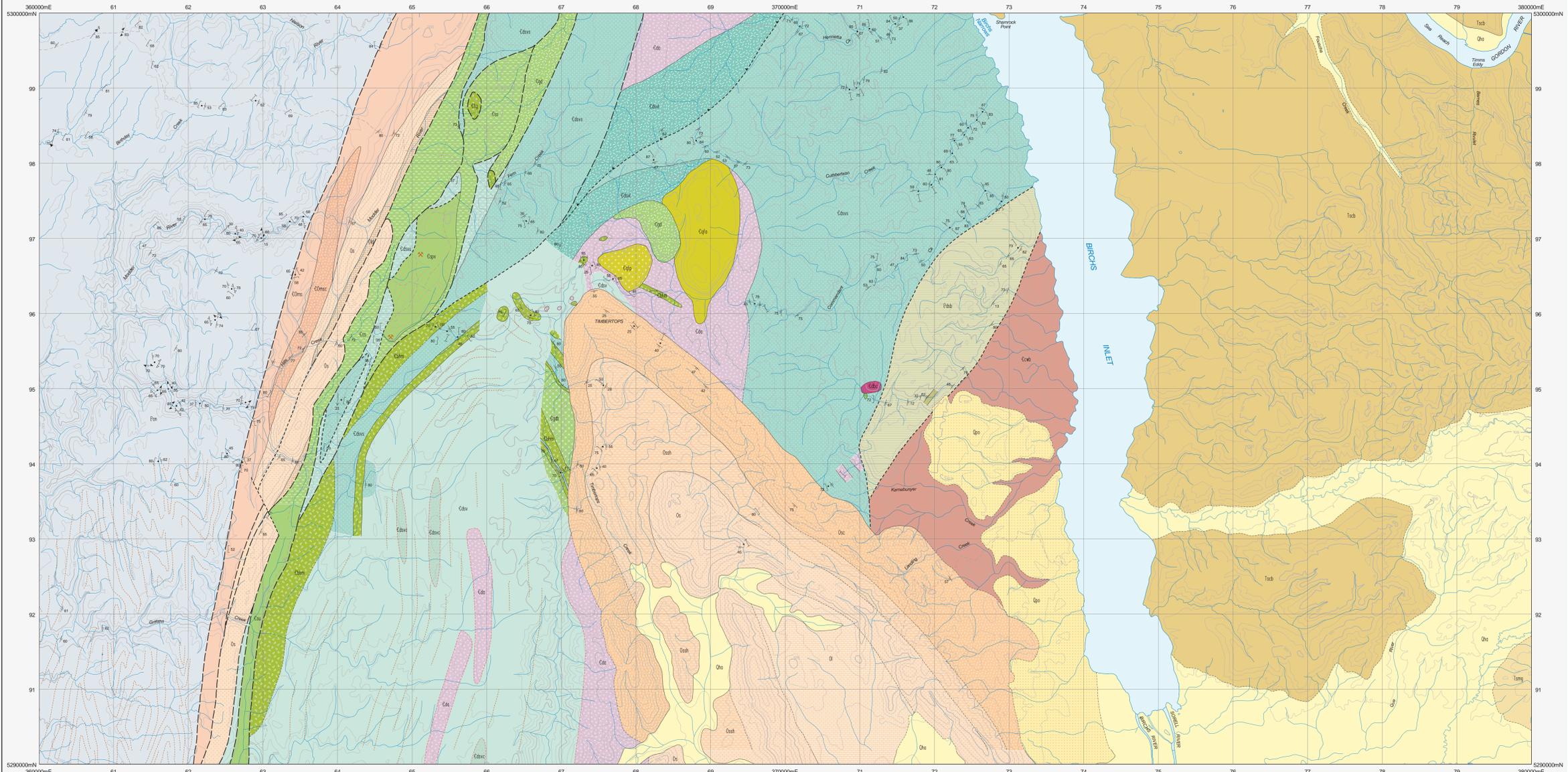


# BIRCHS

Scale: 1:25 000



<b>GENOZOIC</b> QUATERNARY Pleistocene-Holocene Qha Alluvium and swamp deposits (Qha). Qpo Older alluvial gravels, mainly on raised terraces developed on Tertiary deposits, one showing a gradational relationship to younger alluvium (Qpo). Tsmg Semi-consolidated interbedded sands, pebble-cobble gravels (up to boulder grade in some places), silts and clays; some horizons contain coalified wood and rare amber (Tsmg). Tscb Fine to medium grained quartz sandstone with carbonaceous siltstone laminae commonly containing plant stems and leaf impressions (Tscb). Angular unconformity due to Middle Devonian polyphase orogeny.	<b>ORDOVICIAN</b> Oid Dolomite, typically mottled grey, poorly bedded, unfossiliferous, crystalline (Oid). Oa Mostly quartz sandstone, pink to grey, fine to coarse-grained, with minor conglomerate and siltstone/mudstone (Oa). Osh Dominantly grey siltstone, with Ordovician brachiopods and trilobites in places (Osh). Osc Siliceous sandstone and pebble conglomerate. Contains Ordovician fossils of Timberlopp 367300mE 5295800mN (Osc).	<b>PROTEROZOIC</b> NEOPROTEROZOIC Ccbw Basaltic lava, tholeiitic, typically massive, commonly plagioclase-pyroxene-phyric (Birchs Inlet Volcanics) (Ccbw). Czbc Basaltic lava, breccia and crystal-litic tuff, commonly vesicular and containing pseudomorph pyroxene phenocrysts and relict-spinel, commonly calc-rich (Czbc). Fobw Siliceous mudstone, siltstone, sandstone and conglomerate (Fobw); basal type (Fobw). Correlates of Success Creek Group. Pon Metamorphosed interbedded quartzwacke and mudstone siltstone (Pon). Correlates of Oonah Formation.	<b>INTRUSIVE ROCKS</b> Cqfr Quartz-feldspar +/- biotite porphyry, probably intrusive (Cqfr). Cqfa Felsic intrusives(?) body of rhyolitic composition. Zircon U-Pb radiometric age 522.8 +/- 0.4 Ma from 368,800mE 5,296,100mN (Cqfa). Cda Andesitic lavas and minor intrusives (Cda).	<b>PALEOZOIC</b> LATE CAMBRIAN COns Marine sequence of mudstone, siltstone, sandstone and minor conglomerate. Late Cambrian fossils at 364,500mE 5,288,200mN (COns). COnac Dominantly pebble conglomerate (COnac).	<b>EARLY CAMBRIAN</b> Cdsu Mixed sequence of volcano-sedimentary, sedimentary and volcanic rocks, ranging from felsic to andesitic in composition. Includes non-volcanic sedimentary rocks (Cdsu). Usually positive magnetic character (Cdsu). Cdsvs Dominantly interbedded grey mudstone and siltstone sandstone, with some conglomeratic units. May include some allochthonous units. Cdsvc Conglomerate horizons, dominantly from felsic volcanic sources in south. Usually positive magnetic character (Cdsvc). Cda Andesitic lavas and breccias with volcanoclastic units and possible intrusives. Typically plagioclase-pyroxene-phyric. Includes some units mapped from aeromagnetic signature. Includes part of Noddy Creek Volcanics (Cda). Cdsu Felsic quartz-feldspar-phyric volcanic and intrusive rocks with minor sedimentary interbeds. Possible welded tuff of 366,200mE 5,298,200mN. Includes part of Noddy Creek Volcanics (Cdsu). Cdsbc Basaltic lava, chlorite-sericite-altered, of uncertain affinity (Cdsbc). Cdsvu Sericite possible tuff or lava containing chlorite, quartz and apophyses-sheared volcanic rocks of uncertain affinity (Cdsvu).	<b>MIDDLE CAMBRIAN</b> Csu Unfossiliferous, generally coarse-grained ultramafic rocks, gabbro and sheared serpentinite (Csu). Cgfb Gabbro dykes, intrusive bodies and fault-bounded units (Cgfb). Cgfv Gabbro with orthopyroxene pseudomorphs (Cgfv). Csp Peridotite (Csp). Cspv Serpentinised pyroxenite (Cspv). Csq Tonalite and quartz gabbro (Csq). Csa Sheared serpentinite (Csa).	<b>ALLOCHTHONOUS SEQUENCES</b> CORRELATE OF CLEVELAND-WARATAH ASSOCIATION Geological boundary - position accurate or approximate. Geological boundary - inferred. Geological boundary inferred from aeromagnetic data. Fault - unspecified type, position accurate or approximate. Fault - unspecified type, inferred. Thrust fault, inferred, teeth on upper plate. Lithological trend line. Limit of mapping of sub-unit within undifferentiated rock unit.	<b>ALLOCHTHONOUS SEQUENCES</b> Strike and dip of bedding, facing known - right way up. Strike and dip of bedding, facing unknown - dipping vertical. Strike and dip of cleavage, type and relative age unspecified - dipping vertical. Strike and dip of cleavage, relative local age S1, S2. Trend and plunge of hinge of minor fold, unspecified relative age, with dip and dip direction of axial surface indicated. Trend and plunge of hinge of minor fold, relative local age F2, with dip and dip direction of axial surface indicated. Field station for adjacent readings on the map. Mineral deposit location - hardrock - Data derived from Mineral Resources Tasmania DEPDIS data base. Data point position has not been verified in every case.	<b>REFERENCE THIS MAP AS:</b> SEYMOUR, D.B. and GREEN, D.C. (compilers) 2003. Digital Geological Atlas 1:25 000 Scale Series, Sheet 3629, Birchs. Mineral Resources Tasmania. Base data from the LIST, Copyright State of Tasmania. Map produced by the Geoscience Information Branch of Mineral Resources Tasmania using G.I.S. software. GDAS4 - MGA Zone 55. Contour Interval: 20 metres. GDA While every care has been taken in the preparation of this data, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this data. Crown copyright reserved.	<b>RESPONSIBILITY DIAGRAM</b> A.E. D. B. C.E.	<b>LOCATION DIAGRAM</b> INDEX TO ADJOINING SHEETS ALBANY BURNIE HOBART VANUASI BIRCHS LARKHALL MELBA WEST STANLEY 1:25000 maps available. BIRCHS 3629
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