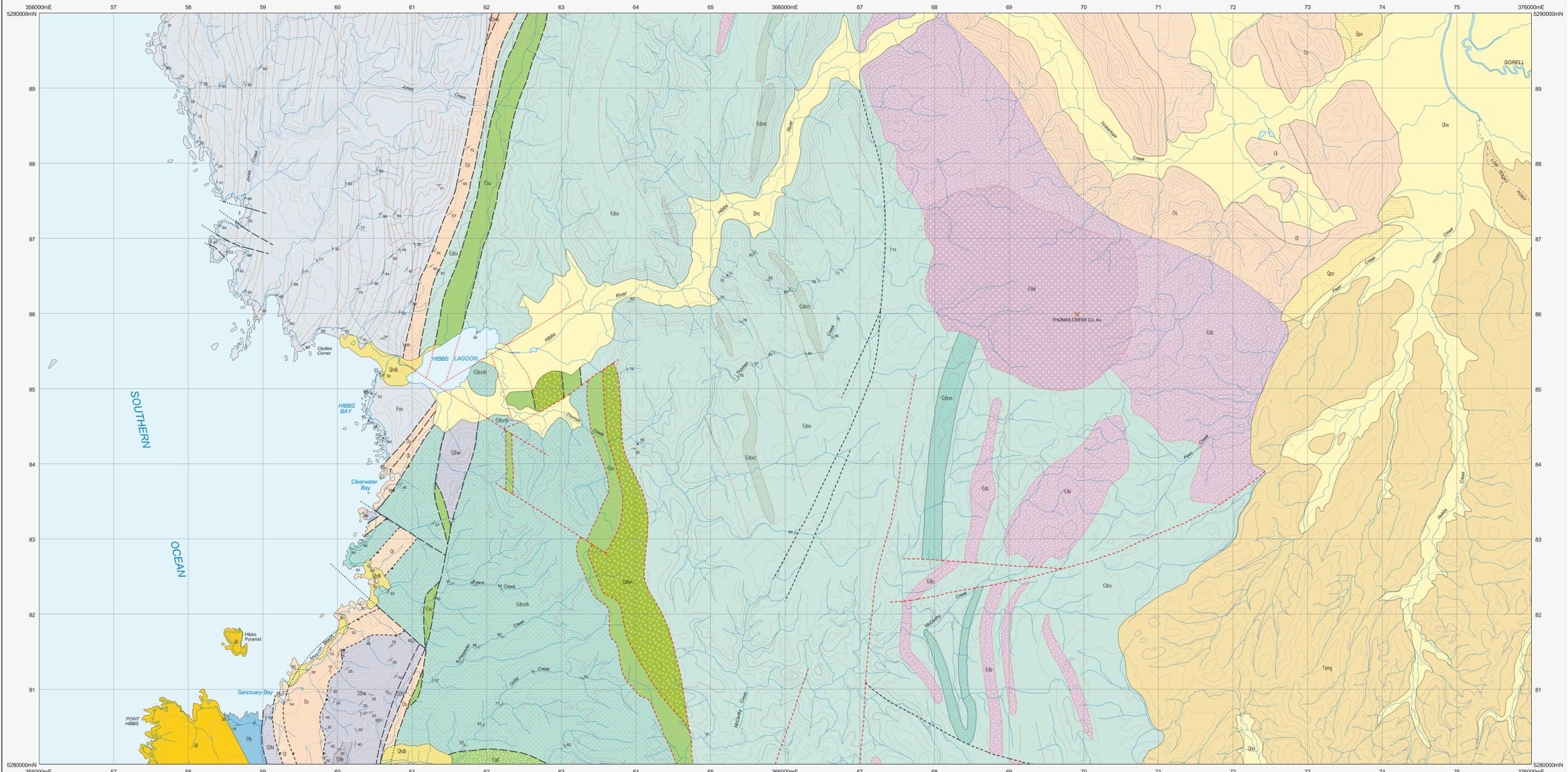


HIBBS WEST

Scale: 1:25 000



COMPOSITE LEGEND FOR HIBBS EAST AND HIBBS WEST

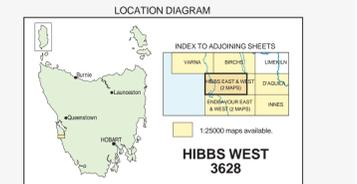
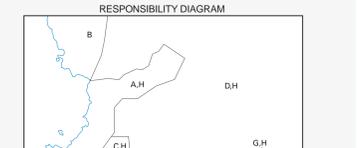
PERIOD	UNIT	DESCRIPTION
CENOZOIC	Quaternary	
	Quaternary	Qhnp Modern shore face and associated aeolian dune sand (Qhnp).
	Quaternary	Qha Stream alluvium, marsh and swamp deposits (Qha).
Tertiary	Quaternary	Qpo Older alluvial gravels, mainly on raised terraces developed on Tertiary deposits, and showing a gradational relationship to younger alluvium (Qpo).
	Tertiary	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).
Paleozoic	Permian	Ph Marine sequence of grey, poorly sorted polymict cobble-pebble lithic conglomerate, pebbly lithic sandstone, siltstone, calcareous mudstone and limestone, with abundant marine macrofossils in some beds (Ph). (Correlates of lower Permian Supergroup).
	Carboniferous	Schne Pale-weathering, cross-bedded well-sorted marine quartz sandstone with minor siltstone and conglomeratic fossiliferous bed near top contains brachiopods, tentaculites and trilobitic cephalopods (Schne). (Whitlakes Beach Sandstone).
	Carboniferous	SDnr Unfossiliferous redbed sequence of predominantly fine-grained lithic sandstone with subordinate coarse lithic sandstone and lithic conglomerate, arranged in fan-gward sequences (SDnr). (Red Reef Cliff Sandstone).
Carboniferous	SDni Interbedded fossiliferous marine limestone and calcareous mudstone, with abundant coral reefs up to 0.5m in diameter (SDni). (Point Hibbs Formation).	
Possible disconformity.		

PERIOD	UNIT	DESCRIPTION
Paleozoic	Ordovician	Oi Dark grey limestone, dolomite, calcareous mudstone, minor quartz sandstone and block clay weathering products; in part fossiliferous (Oi).
	Ordovician	Oa Grey to pink or reddish siliceous sandstone with subordinate granite-pebble conglomerate and minor siltstone. Cross-bedded in places. Ordovician fossils at 36742mE 529602mN north of this map sheet. Includes distinctive red cross-bedded sandstone sequence of Point Hibbs (Oa).
	Ordovician	COms Marine mudstone-siltstone-sandstone sequence, grey to reddish-grey, with Late Cambrian fossils at 36462mE 529636mN north of this map sheet (COms).
Paleozoic	Carboniferous	Cdsv Mixed sequence of volcano-sedimentary sedimentary and volcanic rocks, ranging from felsic to andesitic in composition. May include non-volcanic sedimentary rocks (Cdsv).
	Carboniferous	Cdsv Andesitic lavas and breccias, with volcanoclastic units and possible intrusives. Typically plagioclase-pyroxene-phyric. Includes some units mapped from aeromagnetic signature (Cdv).
	Carboniferous	Cdsvs Dominantly volcanoclastic conglomerate-sandstone unit, typically felsic, with weakly positive magnetic character (Cdsvs).
	Carboniferous	Cdsvs Ridge-forming, probable sandstone units, typically non-magnetic (Cdsvs).
	Carboniferous	Cdsvh Dominantly siltstone-mudstone sequence, grey to greenish-grey, thin-bedded, with subordinate thin graded turbiditic sandstone units (Cdsvh).
Proterozoic	Proterozoic	Cdsvm Dominantly intermediate volcanic rocks, including probable high-Mg andesites, and gabbro. Probably structurally emplaced (Cdsvm).
	Proterozoic	Csu Undifferentiated, generally coarse-grained ultramafic rocks, gabbro and sheared serpentinite (Csu).
	Proterozoic	Pon Metamorphosed interbedded quartzite and mudstone/siltstone (Pon). Consists of Donoh Formation.

PERIOD	UNIT	DESCRIPTION
Mesozoic	Jurassic	Jst Dolerite (Jst).
	Triassic	Cdsv Andesitic intrusives rocks, including plagioclase-pyroxene-phyric diorite and granodiorite (Cdv).
	Triassic	Cdsv Andesitic lavas and breccias and possible intrusives (Cdv).
Paleozoic	Carboniferous	Cdsv Gabbro dykes, intrusive bodies and fault bounded units (Cdv).
	Carboniferous	Cdsvm Dominantly intermediate volcanic rocks and gabbro, including probable high-Mg andesites (Cdsvm).
	Carboniferous	Csu Undifferentiated, generally coarse-grained ultramafic rocks, gabbro and sheared serpentinite (Csu).

SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
- - -	Geological boundary - inferred.
— · — ·	Geological boundary inferred from airborne magnetic and/or radiometric data.
- · - · -	Fault - unspecified type, position accurate or approximate.
- · - · -	Fault - unspecified type, inferred.
· · · · ·	Fault - unspecified type, concealed.
- · - · -	Fault - unspecified type, inferred from airborne magnetic and/or radiometric data.
- · - · -	Fault - unspecified type, concealed, inferred from airborne magnetic and/or radiometric data.
— · — ·	Thrust fault, position accurate or approximate.
— · — ·	Thrust fault, inferred, teeth on upper plate.
— · — ·	Lithological trend line.
— · — ·	Scarp.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit.

Compiled by D.B. Seymour, B.Sc.(Hons), Ph.D. and D. Green, B.Sc.(Hons), Ph.D. 2001 from the following sources (see Responsibility Diagram):
 A Unpublished mapping by D.B. Seymour, B.Sc.(Hons), Ph.D., 1989-1990.
 B Unpublished mapping by M.D. Goscomb, B.Sc.(Hons), Ph.D., 1989-1990.
 C Unpublished mapping by M.P. McCloughan, B.Sc.(Hons), Ph.D., 1990.
 D New interpretation of airborne magnetic and radiometric data and aerial photographs, with new additional information from GSP Co Ltd Exploration Dept., 1989-1 Mile Geological Map - Point Hibbs (Double Cove & Hibbs Hills), 1:125 000 Southwest Tasmania.
 E Bradbury, J., Pemberton, J., Vigary, M.J. & Corbett, K.D., 1992. Geology of Hibbs East only.
 F 1:25000 Geological series, Southwest Tasmania (Hibbs East only).
 G Green, D.C., 2003. Ground truthing GTRMP geophysical interpretation south of Macquarie Harbour. Tasmania Geological Survey record 2003/15.
 Updated by:
 H.K.D. Corbett, 2004 as part of the Western Tasmanian Regional Minerals Program.



REFERENCE THIS MAP AS:
 SEYMOUR, D.B. and GREEN, D. (compilers) 2004. Digital Geological Atlas 1:25 000 Scale Series, Sheet 3628, Hibbs. 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.

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.