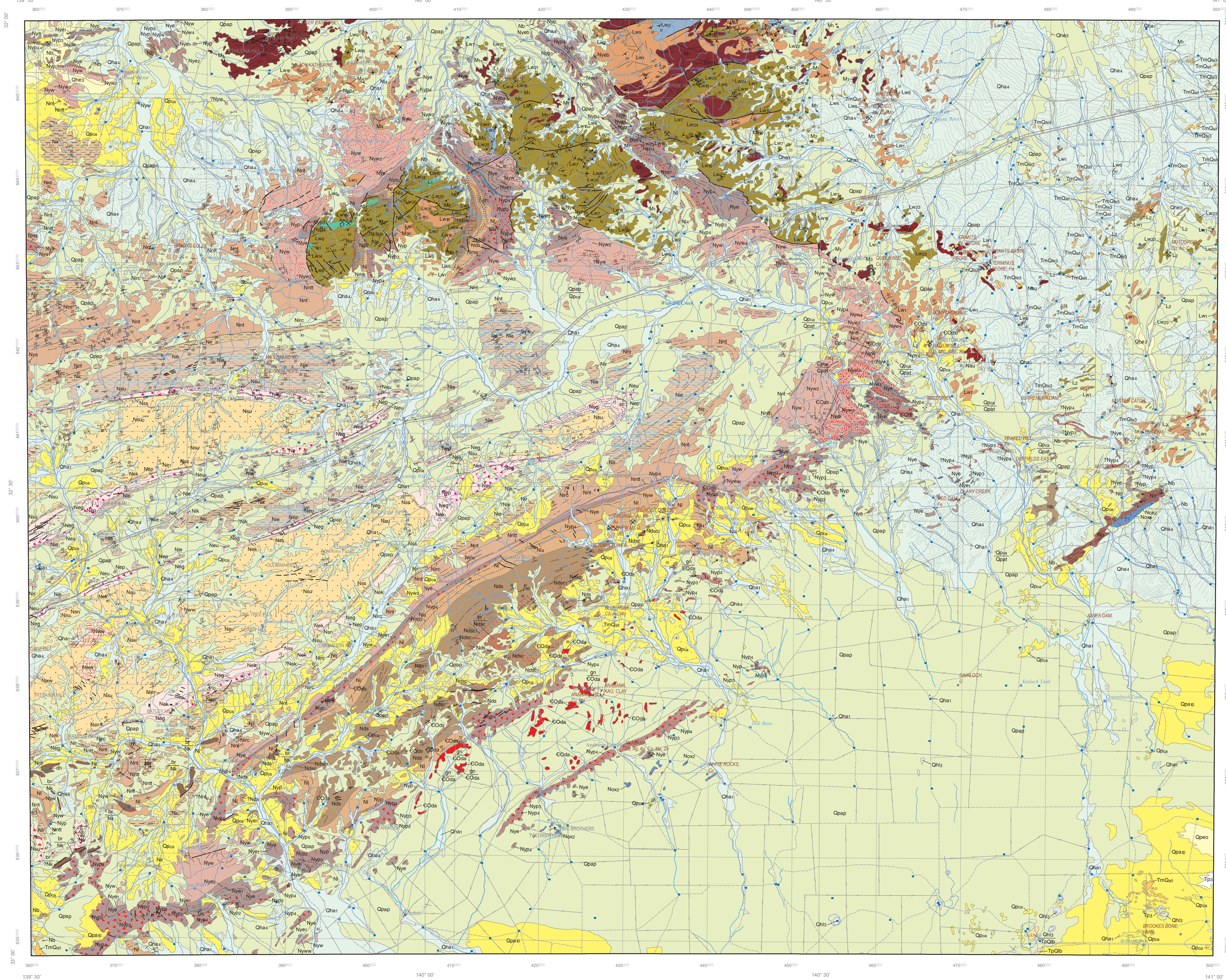


OLARY

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

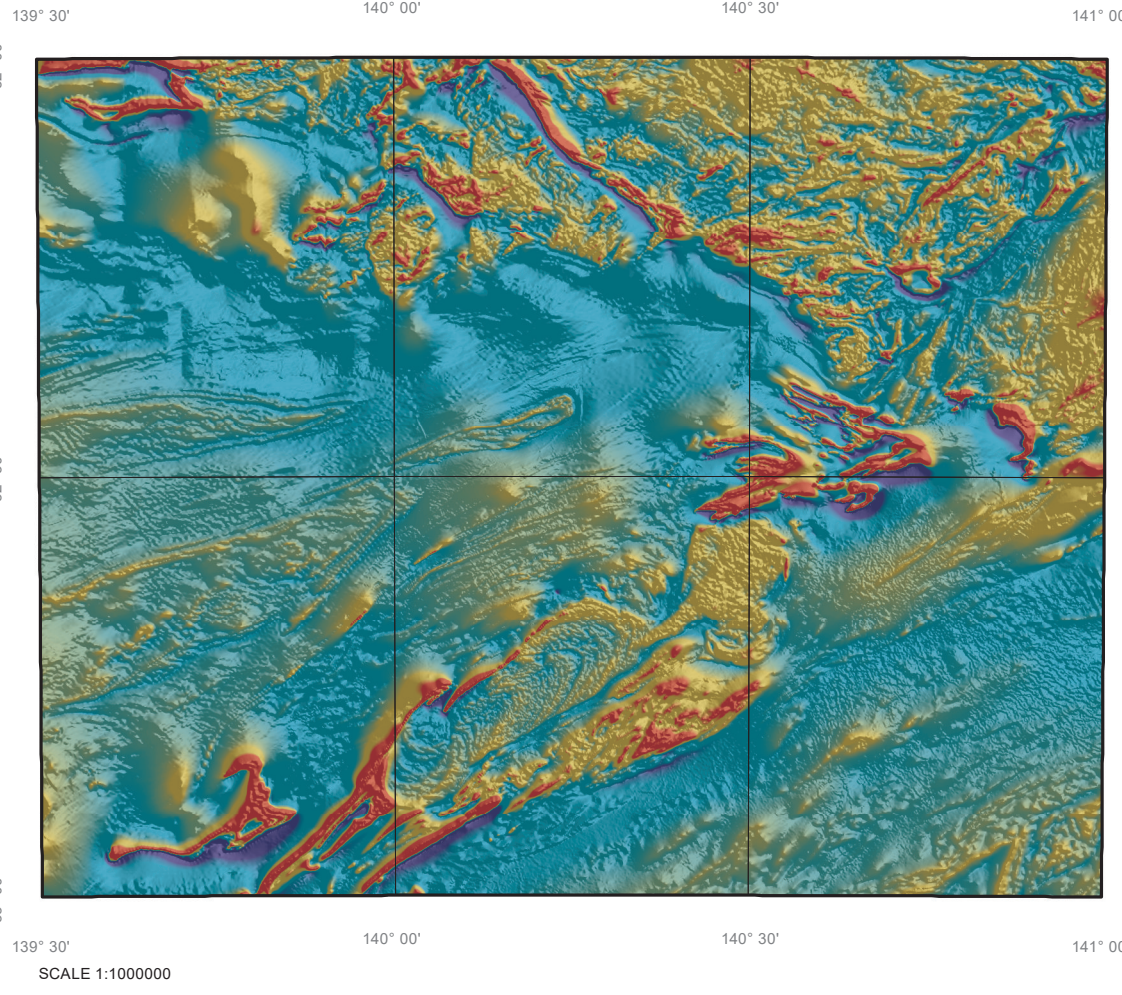
SA GEOLOGICAL ATLAS SERIES SHEET SI5402

AUSTRALIA 1:250 000

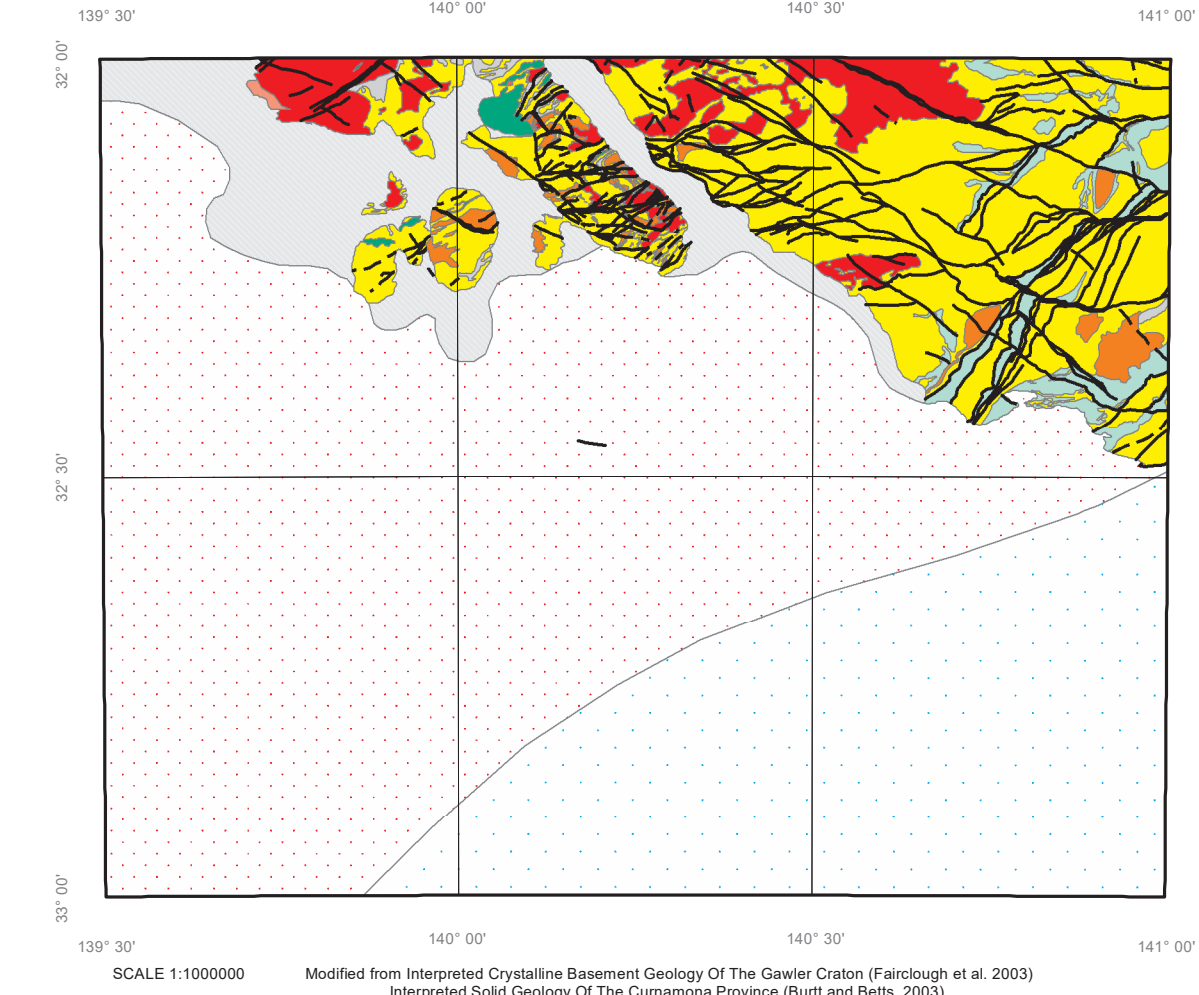


HOLOCENE	
Oh1	HOLOCENE ALLUVIAL/FLUVIAL SEDIMENTS: Un differentiated Holocene alluvial/fluviatile sediments.
Oh2	HOLOCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium, unsorted bedded.
Oh3	HOLOCENE ALLUVIAL/FLUVIAL UNIT 4: Holocene present alluvial fan sediments with gips.
Oh4	HOLOCENE AEDIUM UNIT 3: Holocene sand strand.
Oh5	HOLOCENE LACUSTRIER/PLUVA UNIT 3: Holocene claypan and rippled sediments.
PLEISTOCENE	
Pl1	PLEISTOCENE ALLUVIAL/FLUVIAL UNIT 10: Pleistocene red-brown silt sand and sandy sp. Transitional between Holocene Formation and earlier Pleistocene Formation. Based on Prot-wk on OLARY.
Pl2	WOODRUM FORMATION: Sand, pale reddish-brown silt and clayey quartz, pedogenic carbonate. Aerial.
Pl3	POORMA FORMATION: Clay sand and calcareous earth, silt, with gravel lenses.
Pl4	WELFORD GRAVEL: Well-sorted gravel, well rounded, includes boulders, gravel fan deposits.
Pl5	PLEISTOCENE CALCRETE: Undifferentiated Pleistocene calcrete.
PLIOCENE-PLEISTOCENE	
Tr1	BLANCHETOWN CLAY: Clay, greenish grey, sandy, limestone, thin, and coarse sand, clay, green-grey mottled sand.
MIOCENE-PLEISTOCENE	
Tr2	MIOCENE-PLEISTOCENE FERROCEMENT UNIT 3: Miocene to Pleistocene conglomerate approx. overlies with Tr10.
Tr3	MIOCENE-PLEISTOCENE SILICETE UNIT 1: Regionally younger striae, approx. Late Miocene-Pliocene.
CAMBRIAN-OROVICAN	
Co1	ANAMAMA GRANITE: Granite to granodiorite, coarse-grained, biotite, 500-700 Ma. Age 498-442 Ma (SP-07).
Co2	DELAMARAN KNOXES UNIT 8: Acid dyke, pegmatite, microgabbro, gabbro, amphibole. Based on Prot-wk on OLARY.
Co3	DELAMARAN KNOXES UNIT 9: Intermediate dyke, dyke, amphibole, microgabbro, microgabbro and microgabbro pegmatite. Based on Prot-wk on OLARY.
Co4	DELAMARAN KNOXES UNIT 10: Lamprophyre dyke. Based on Prot-wk on OLARY. Approx. ultramafic rock, leucocratic, Kerguelan island, age 480-470 Ma (SP-7).
NEOPROTEROZOIC	
N1	WONOKA FORMATION: Shale, grey, calcareous, flaggy dolomite, limestone and sil.
N2	ULUPU SILTSTONE: Siltstone, shale, green-grey and purple.
N3	MULLALBA FORMATION: Dolomite, thin, laminated, micritic, with interbedded shale near the top.
N4	SEALUFF SANDSTONE: Quartzite, sandstone, siltstone.
N5	PERELNA SUBGROUP: Sandstone, dolomite, calcite.
N6	PERELNA SUBGROUP UNIT 1: Carbonate unit within Yewkesia Subgroup as shown in red on OLARY.
N7	NETCHOWA SILTSTONE: Siltstone, grey and green-grey siltstone, calcareous, laminated, scattered quartz granules, siltstone conglomerate.
N8	GRAMPUS QUARTZITE: Quartzite, arenaceous, with conglomerate lenses.
N9	ELMBOWE ARIOSE: Sandstone, siltstone.
N10	ENDRAMA SHALE: Shale, green-grey and minor red, laminated, silt shale, rare thin grained sandstone.
N11	COX SANDSTONE MEMBER: Sandstone, coarse-grained, sandstone medium to fine-grained, with siltstone.
N12	SAROWIE SILTSTONE: Siltstone, sandy, fine bedded.
N13	WALKARRINDA SILTSTONE: Siltstone, blue-grey, thin bands of limestone and calcareous siltstone.
N14	TRADUPINA SHALE MEMBER: Shale, siltstone, calcareous, shaly, greenish grey siltstone, silt and shale.
N15	HARVEY HILL FORMATION: Siltstone, grey to black, micritic and partly grading upwards to calcareous, shaly, micritic, locally cross bedded, shaly, green, shaly, shaly to massive limestone conglomerate, transformational, greywacke.
MESOPROTEROZOIC	
M1	MESOPROTEROZOIC UNIT 1: Syn to late tectonic granite to adamellite, pegmatite. Based on Prot-wk on OLARY and CURRAMONNA.
M2	MESOPROTEROZOIC UNIT 2: Minor granitoid/pegmatite intrusives. Based on Prot-wk on OLARY.
M3	MESOPROTEROZOIC UNIT 3: Amphibole (metabasite) dykes. Based on Prot-wk on OLARY and CURRAMONNA.
M4	MESOPROTEROZOIC UNIT 4: Undifferentiated amphibole. Based on Prot-wk on OLARY.
PALAEOPROTEROZOIC	
P1	PALAEOPROTEROZOIC UNIT 1: Hornblende-actinolite. Based on Prot-wk on OLARY.
P2	PALAEOPROTEROZOIC UNIT 2: Felspar-hornblende amphibole. Based on Prot-wk on OLARY.
P3	WILLYAMA SUPERGROUP UNIT 1: Ulfersit granite, quartzite, migmatite. Based on Prot-wk on CURRAMONNA and OLARY.
P4	WILLYAMA SUPERGROUP UNIT 2: Migmatite, granite, gneiss. Based on Prot-wk on CURRAMONNA and OLARY.
P5	WILLYAMA SUPERGROUP UNIT 6: Calc-silicate, albite rock. Based on Prot-wk on OLARY.
P6	WILLYAMA SUPERGROUP UNIT 7: Biotite, garnet, magnetite, magnetite quartzite, hornblende gneiss. Based on Prot-wk on OLARY.
P7	WILLYAMA SUPERGROUP UNIT 8: Gneiss, plagioclase-magnetite quartzite. Based on Prot-wk on OLARY.
P8	WILLYAMA SUPERGROUP UNIT 9: Quartz-magnetite-albite rock, magnetite, barite. Based on Prot-wk on OLARY.
P9	WILLYAMA SUPERGROUP UNIT 14: Albite schist, albite, biotite, hornblende schist, calc-silicate, garnet. Based on Prot-wk on OLARY.
P10	WILLYAMA SUPERGROUP UNIT 15: Serpentine-magnetite gneiss. Based on Prot-wk on OLARY.
P11	WILLYAMA SUPERGROUP UNIT 16: Calc-silicate, magnetite, quartzite, garnet-magnetite gneiss. Based on Prot-wk on OLARY and CURRAMONNA.
P12	WILLYAMA SUPERGROUP UNIT 21: Carbonaceous-schist, schist, quartzite, magnetite, amphibole. Based on Prot-wk on OLARY.
P13	WILLYAMA SUPERGROUP UNIT 22: Garnet-magnetite. Based on Prot-wk on OLARY.
P14	WILLYAMA SUPERGROUP UNIT 23: Amphibole. Based on Prot-wk on OLARY.
P15	WILLYAMA SUPERGROUP UNIT 24: Garnet, coarse, garnet-magnetite, biotite, minor quartz-plagioclase gneiss. Based on Prot-wk on OLARY.
P16	WILLYAMA SUPERGROUP UNIT 25: Dolomite, ironstone, ironstone-albite-quartz-biotite, sericitic, carbonate. Based on Prot-wk on OLARY.
MISCELLANEOUS	
Di	DIORITE: Diorite, unmetamorphosed.
Di2	DIORITE UNIT 1: Diorite in diopside breccia. Based on green unit in Curramonna and OLARY.
F	FERRUGINOUS: Ironstone, hematite, unmetamorphosed.
G	GNEISS: Gneiss, unmetamorphosed.
Q	QUARTZ VEIN: Quartz veins, unmetamorphosed.

TOTAL MAGNETIC INTENSITY IMAGE



SOLID GEOLOGY INTERPRETATION



SCALE 1:250,000



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Computer generated from SA GEOLOGY database (Digital data available upon request) Current version 2018 Digital

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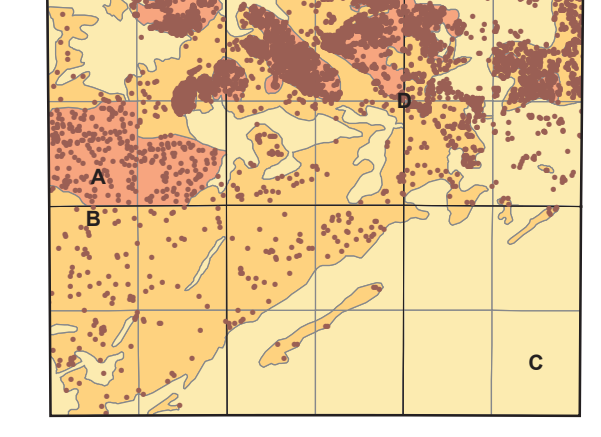
Grey numbered lines indicate the 10000 metre Map Grid Transverse Mercator Projection, Geocentric Datum Australia, 2020. The lake boundaries displayed on this map may have been derived from geological interpretation and may not match lakes interpreted by topographic mapping authorities. Not all structures are represented on this particular map.

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R.C. Coburn, Director, Geological Survey of South Australia. Geological boundaries displayed on this map have been derived from geological interpretation and are not intended to be used for navigational purposes.

Copies of this map can be obtained from the Department for Energy and Mining SA, Adelaide, 2020

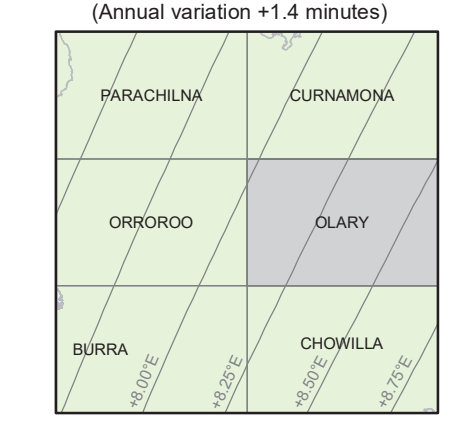
GEOLOGICAL RELIABILITY DIAGRAM



INDEX TO 1:100 000 SHEETS

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Yunta 6832	Anamama 6932	Oskvale 7032

INDEX TO ADJOINING 1:250 000 SHEETS



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BUILDING	■
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LANDING GROUND	⊗
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MINOR WATERCOURSE	———
WATERHOLE	———
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MINING	
OCCURRENCE	*
PROSPECT	X
DEPOSIT - NO MINING	⊗
MINE - METALS AND INDUSTRIAL MINERALS	⊗
DIGGINGS - ALLUVIAL GOLDIFEROUS	⊗

COMMODITIES			
Ag	Silver	Mo	Molybdenum
Au	Gold	Pb	Lead
BAR	Barite	PEGM	Pegmatite
CLAY	Clay	QZ	Quartz
Co	Cobalt	Ra	Radium
Cu	Copper	REE	Rare Earths
Fe	Iron	S	Sulphur
FELD	Feldspar	Th	Thorium
FIORIE	Iron Ore	U	Uranium
HMN	Heavy Minerals	UOXR	Uranium Oxide
KAD	Kaolin	WOLC	Wollastonite
MC	Mica	Zn	Zinc

DIGITAL EDITION
SUBJECT TO AMENDMENT
See published printed map for further information