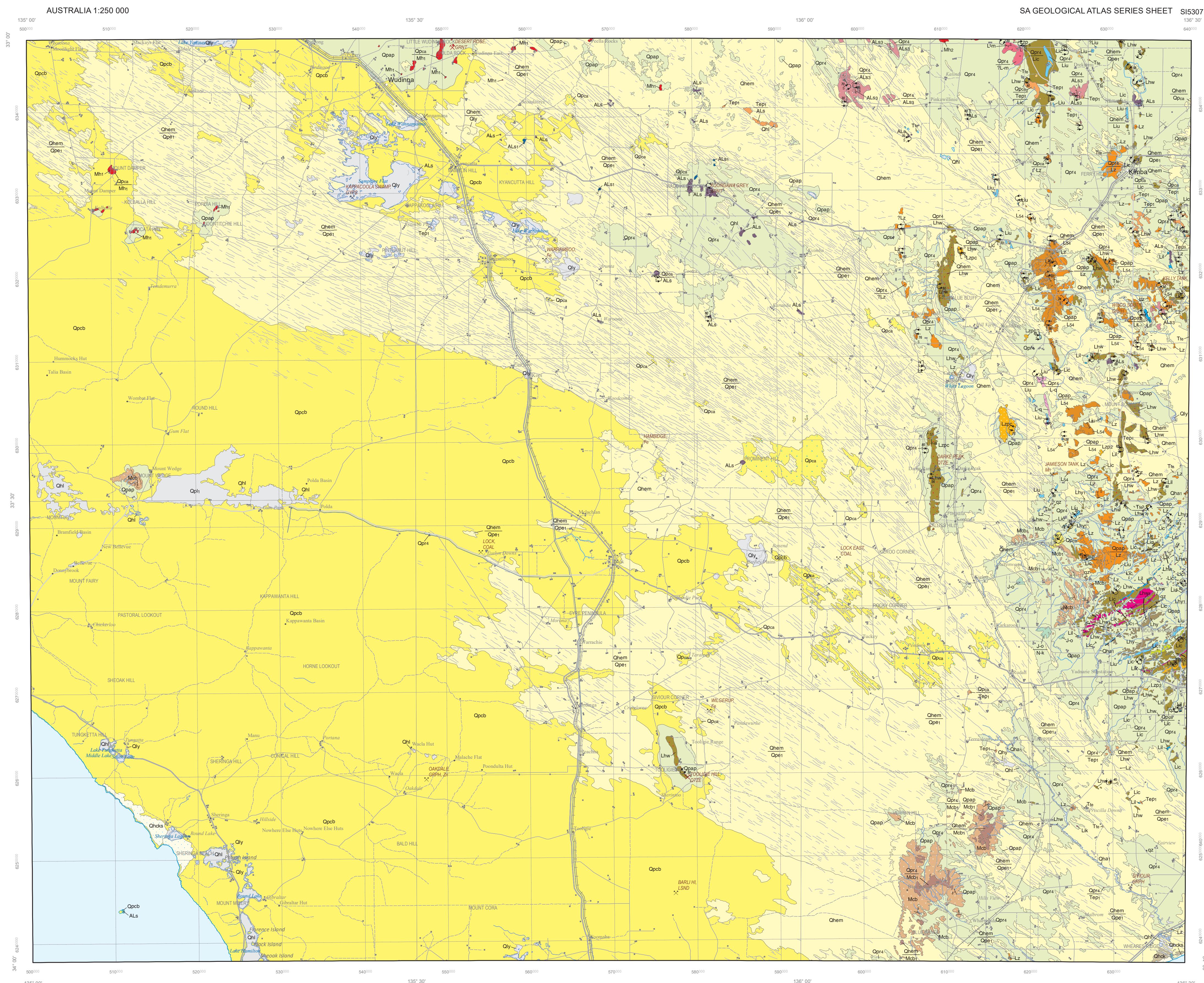


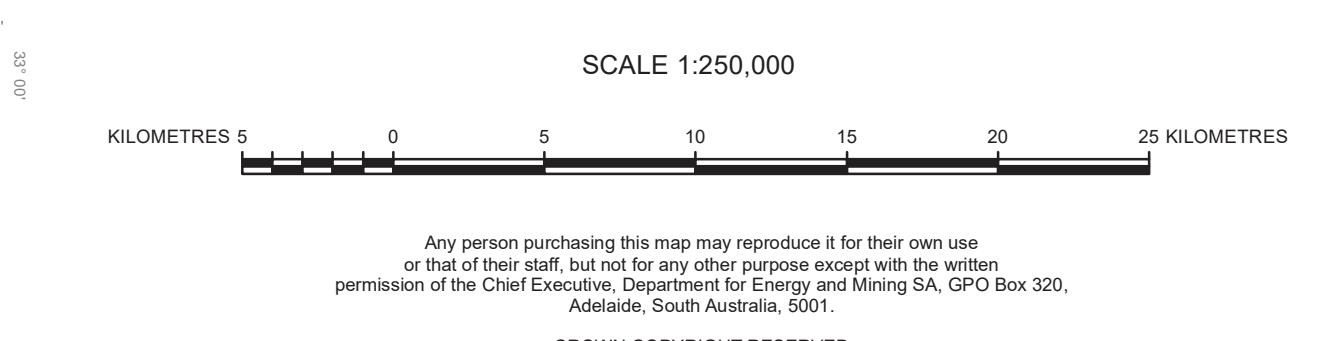
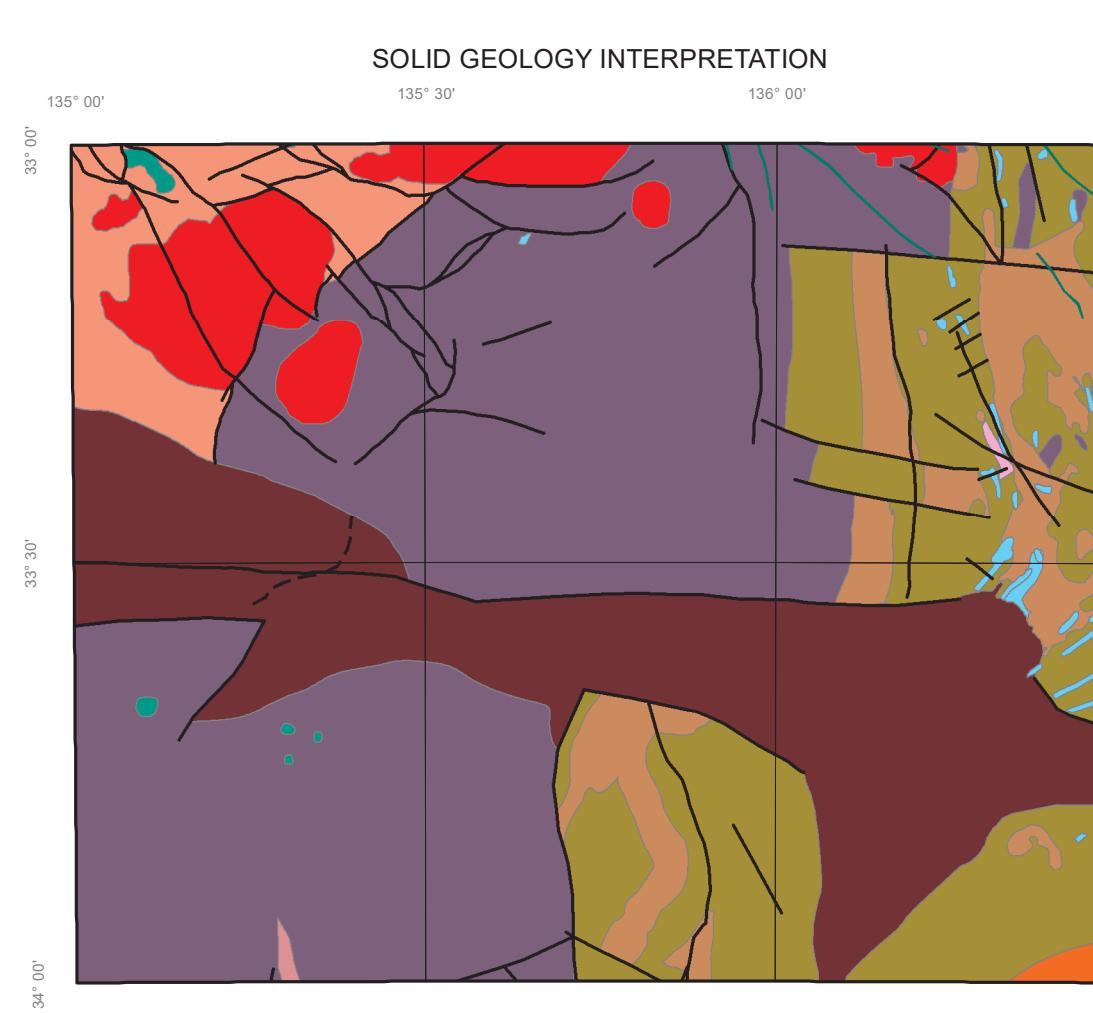
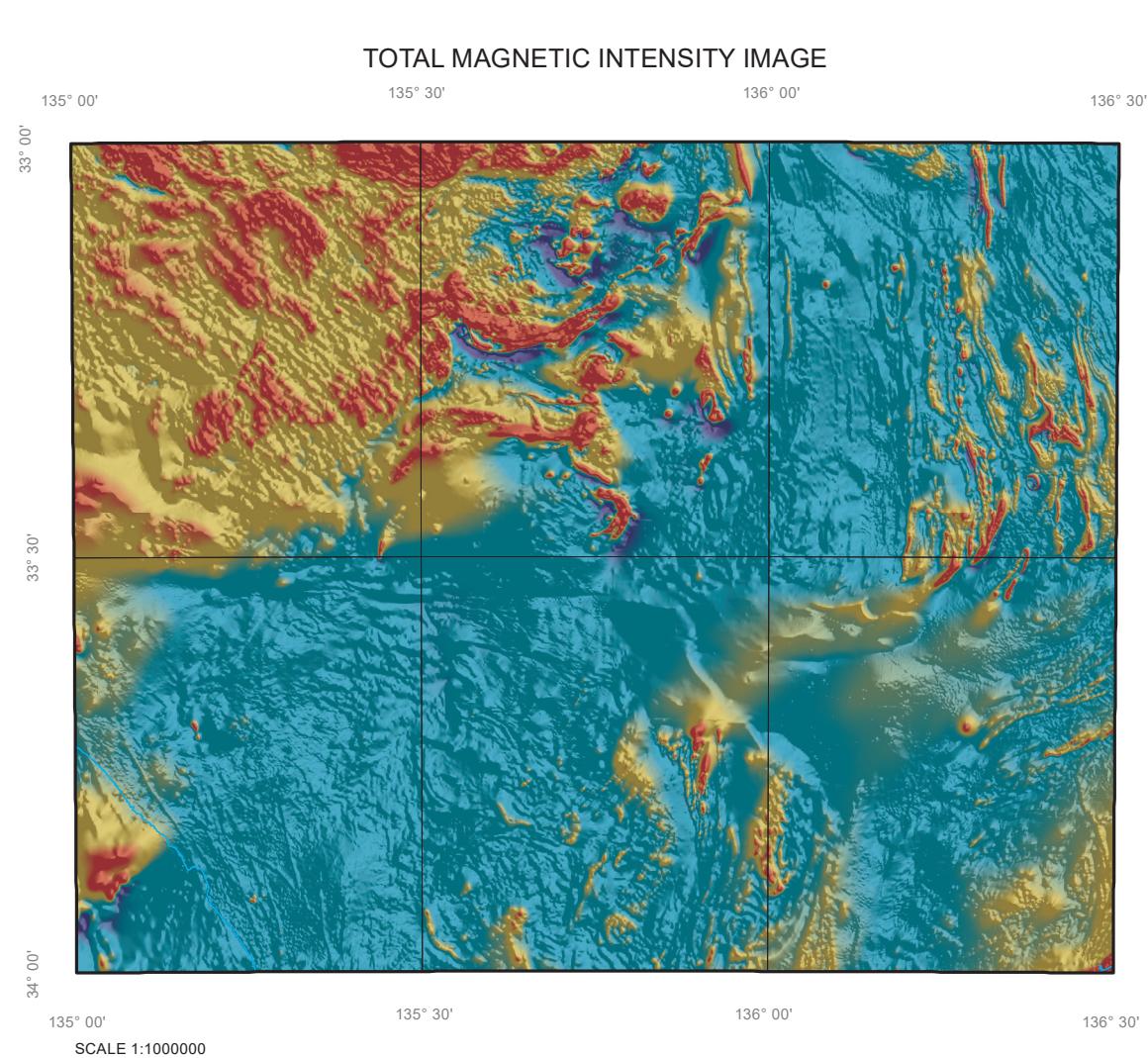
KIMBA

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING



REFERENCE

HOLOCENE	
Qha	HOLOCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium; current bedload.
Qch	SAIN T KILDA FORMATION: Coastal marine sediment; calcareous, fossiliferous sand and mud of intertidal and flats, beach and tidal flats.
Qchks	SHAMROCK SAND MEMBER: Unconformable white bioclastic, quartz-carbonate sand of modern beachridge and transgressive dune fields.
Qhem	MORNABA SAND: Sand, dolian, off-white and pale yellow, quartz-rich with carbonate plumes.
Qhi	HOLOCENE LACUSTRIAL/PLAYA SEDIMENTS: Undifferentiated Holocene lacustrine/playa sediments.
PLEISTOCENE	
Cly	YAMBIA FORMATION: Clay, lacustrine, pycnogenic, gypsum-quartz sand. Dunes, playas.
PLEISTOCENE-HOLOCENE	
Qpb	POORAKA FORMATION: Clay, sand and carbonate earth, silty, grey-green.
Qpb	BRENTONER FORMATION: Coastal barrier and shallow sub-tidal horizons; tabular bedded and angular-cross-bedded carbonaceous, pebbled, often capped by calcrite.
Qpb	PLEISTOCENE ACOLIAN UNIT 1: Pleistocene dune core sand.
Qpl	PLEISTOCENE LACUSTRIAL/PLAYA SEDIMENTS UNIT 1: Pleistocene playas.
Qpl	PLEISTOCENE REGOLITH/COLLUVIUM UNIT 4: Pleistocene gravel, clay, silt and sand with soft carbonate, overlying volcanofluviatile calcrites.
Qpb	PLEISTOCENE CALCRATE: Undifferentiated Pleistocene calcite.
PLIOCENE	
Tp	PLIOCENE UNIT 1: Pliocene carbonaceous clay and silt; cream limestone; part silicified and ferruginised.
EOCENE-PLIOCENE	
Tp	EOCENE-PLIOCENE UNIT 1: Eocene quartz sand; grit; part silicified/ferruginised.
TERTIARY	
T-1	TERTIARY FERRICRETE: Undifferentiated Tertiary ferricrete.
JURASSIC	
Jo	POLDIA FORMATION: Sand, clayey, grey, brown and black; silt; carbonaceous, grey, clay; lignite; coal; sandstone, conglomerate in some areas.
NEOPROTEROZOIC	
N4	KELROD FORMATION: Mixed clastics, evaporites, and volcanics.
MESOPROTEROZOIC	
Mg	HILTABA SUITE UNIT 2: Coarse red-pink granite, adamellite.
Mg	HILTABA SUITE UNIT 1: Phenocrystic granite and adamellite, large K-feldspar and plagioclase phenocrysts.
Mb	BLUE RANGE BEDS: Sandstone, coarse grit and pebble beds, white, greyish to cross-bedded; rare haematite.
Mb	BLUE RANGE BEDS UNIT 1: Basal conglomerate, mottled mauve and white, streaks of crevices and quartz, with white and manganese matrix.
PALEOPROTEROZOIC	
Lz	PETER PAN SUPERSUITE: Magnetic rocks, felsic and lesser mafic. Intruded during the Kimba Orogeny and dated ~1750-1700 Ma.
Lz	PINBONG SUITE: Granite to quartz monzonite, typically grey, pegmatite-rich, mica-bearing, weakly deformed to migmatitic. Contains K-feldspar, plagioclase, quartz, K-feldspar to one-shade.
Lz	PINBONG SUITE UNIT 2: Gabбро; metagabbro; dolerite. U-Pb age ~1730-1710 Ma.
Lz	PINBONG SUITE UNIT 3: Granite, cream-pink muscovite. Based on Pro-gneiss units on KIMBA.
Lz	CARAPPEE GRANITE: Granite, coarse-grained porphyric, weakly foliated, K-feldspar phenocrysts.
Lz	PALASOPROTEROZOIC UNIT 54: Granite, pink-grey, gneissic. Age uncertain.
Lz	MISANGUIT FORMATION: Rhyodacite, recrystallised, interbedded with calcareous pebbles. 1856 Ma.



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Topographic detail based on TOPO-25K GEODATA (source scale 1:250 000) supplied by Geoscience Australia - National Mapping Division, ACT. The resolution of the data is approximately 1:250 000.

Computer generated from SA GEOLOGY database (Digital version 2018).
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Gray numbered lines indicate the 1000 metre Map Grid. Transverse Mercator projection, GDA2020 datum, 2000.

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 shown on this particular map.

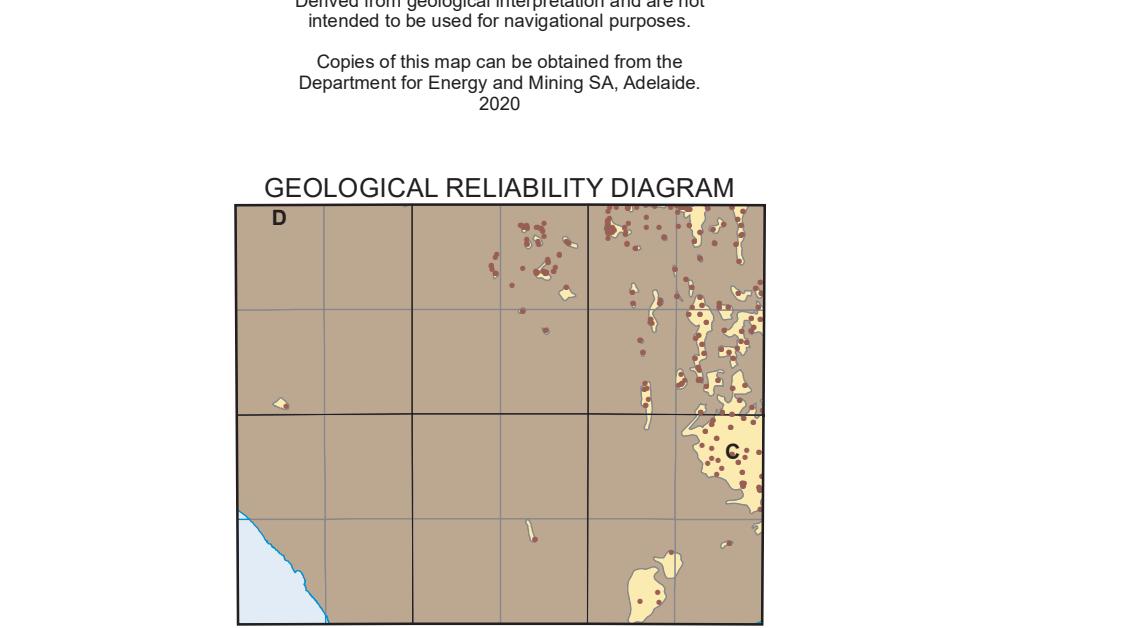
Mapping and Compilation by R.D. S.C. McEvany, B.Sc.(Hons), C.E. White, B.Sc.(Hons) with contributions from J.J. Parker, P.D. S.O. McEvany, B.Sc.(Hons), C.E. White, B.Sc.(Hons), and W.M. Cowley, B.Sc.(Hons).

R.C. Cobcroft, Director, Geological Survey of South Australia.

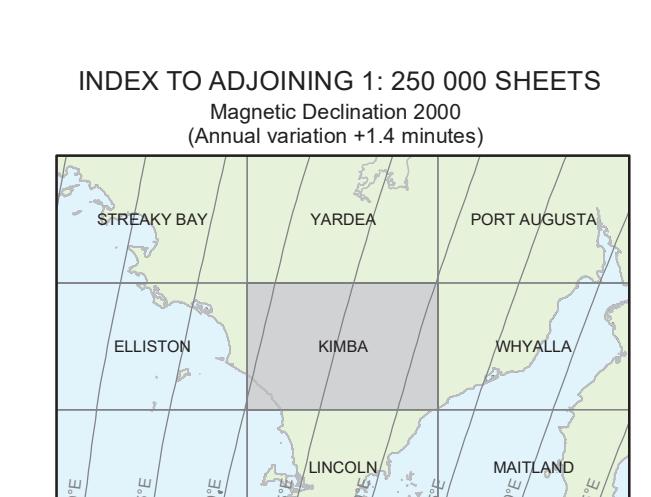
Geological boundaries displayed on this map have been determined by geological interpretation and were not intended to be navigational purposes.

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

2007



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Sherina 5930	Tooligie 6130
	Verran 6131



DIGITAL EDITION
SUBJECT TO AMENDMENT

See published printed map for further information

GEORELATIONSHIP	
COASTLINE	PRINCIPAL ROAD
SECONDARY ROAD	MINOR ROADS
MINOR ROADS	VEHICULAR TRACKS
VEHICULAR TRACKS	OPERATIONAL RAILWAY
OPERATIONAL RAILWAY	WATER PIPELINE
WATER PIPELINE	IDENTIFIED POINT
IDENTIFIED POINT	BUILDING
BUILDING	LANDING GROUND
LANDING GROUND	TOWN OR LOCALITY
TOWN OR LOCALITY	
LINEAR STRUCTURES	
ESCARPMENT	ORIGINAL HORIZONTAL SEDIMENTARY BEDDING
FAULT POSITION ACCURATE	COMPOSITIONAL LAYERING
FAULT POSITION APPROXIMATE	MYLONITE FOLIATION - VERTICAL
FOLIATION TREND METAMORPHIC	SCHISTOSITY - VERTICAL
GYSPIRE DUNES	SCHISTOSITY
STRUCTURAL FEATURES	
MINING	
OCCURRENCE	PROSPECT
PROSPECT	DEPOSIT - NO MINING
DEPOSIT - NO MINING	QUARRY - CONSTRUCTION MATERIALS (HARD ROCK)
QUARRY - CONSTRUCTION MATERIALS (HARD ROCK)	
HYDROGRAPHIC AND GEOMORPHIC FEATURES	
INTERMITTENT LAKE	
MINOR WATERCOURSE	
SAND RIDGE	