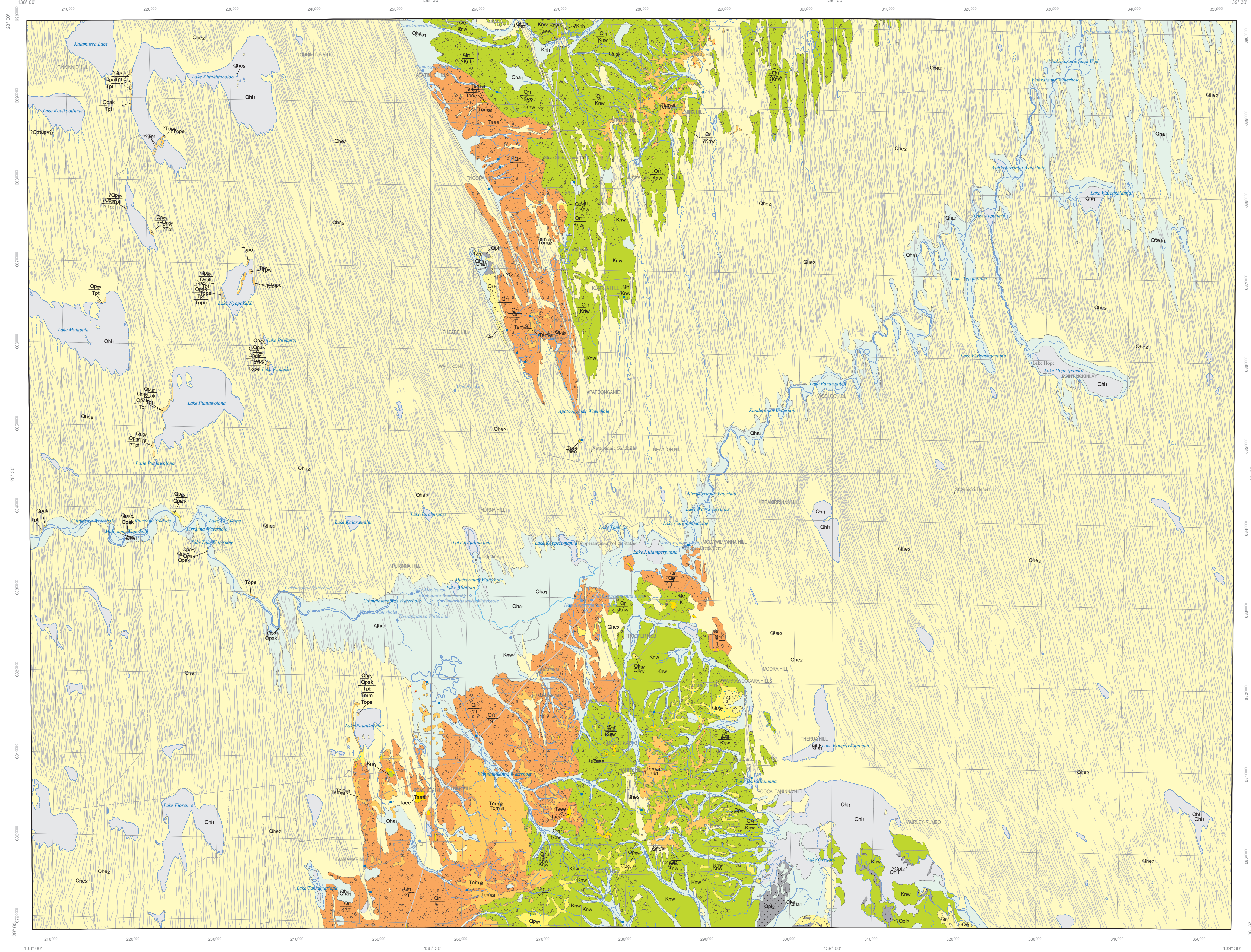


KOPPERAMANNA

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

AUSTRALIA 1:250 000

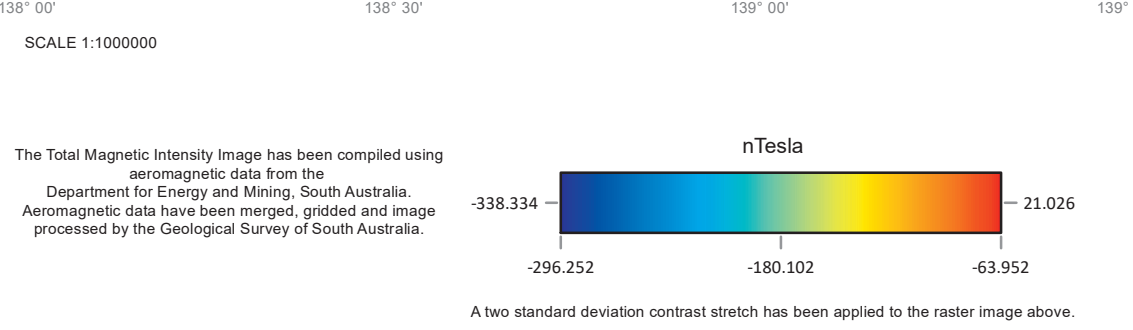
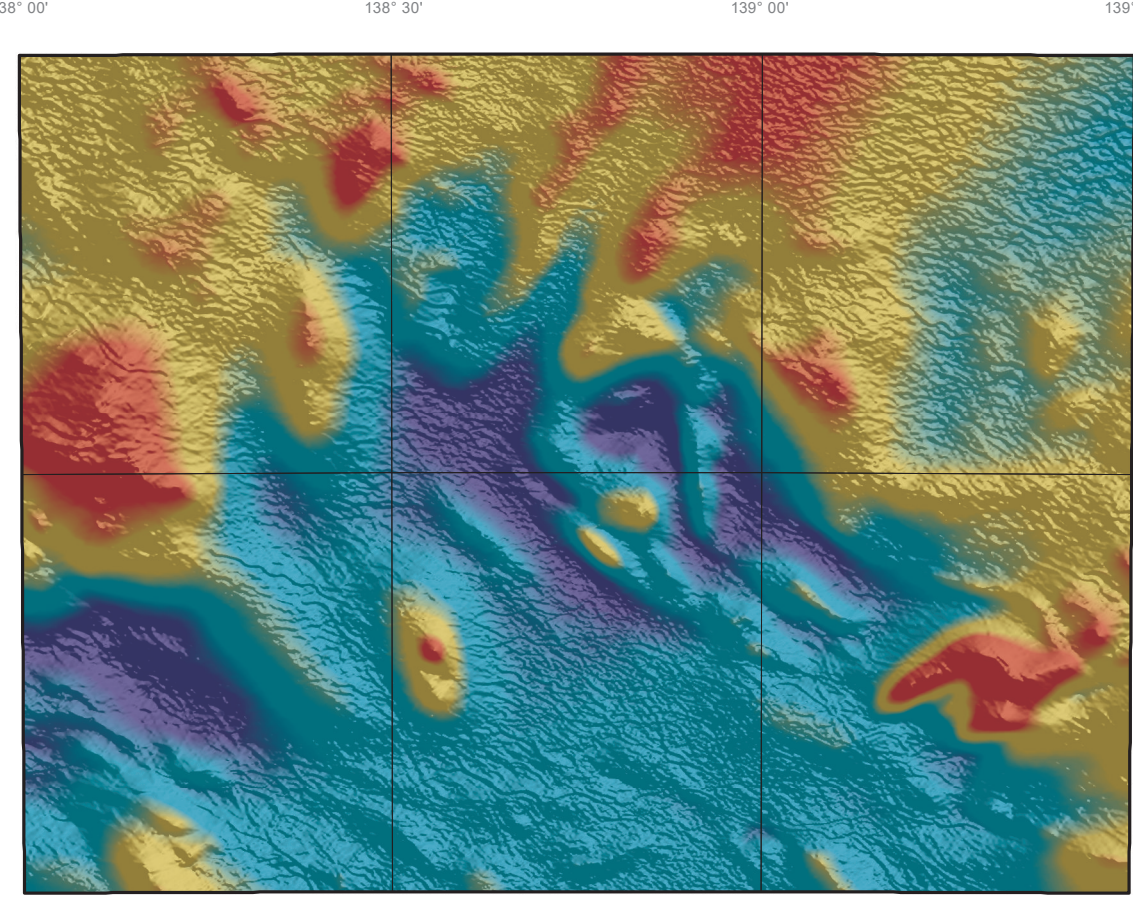
SA GEOLOGICAL ATLAS SERIES SHEET SH5401



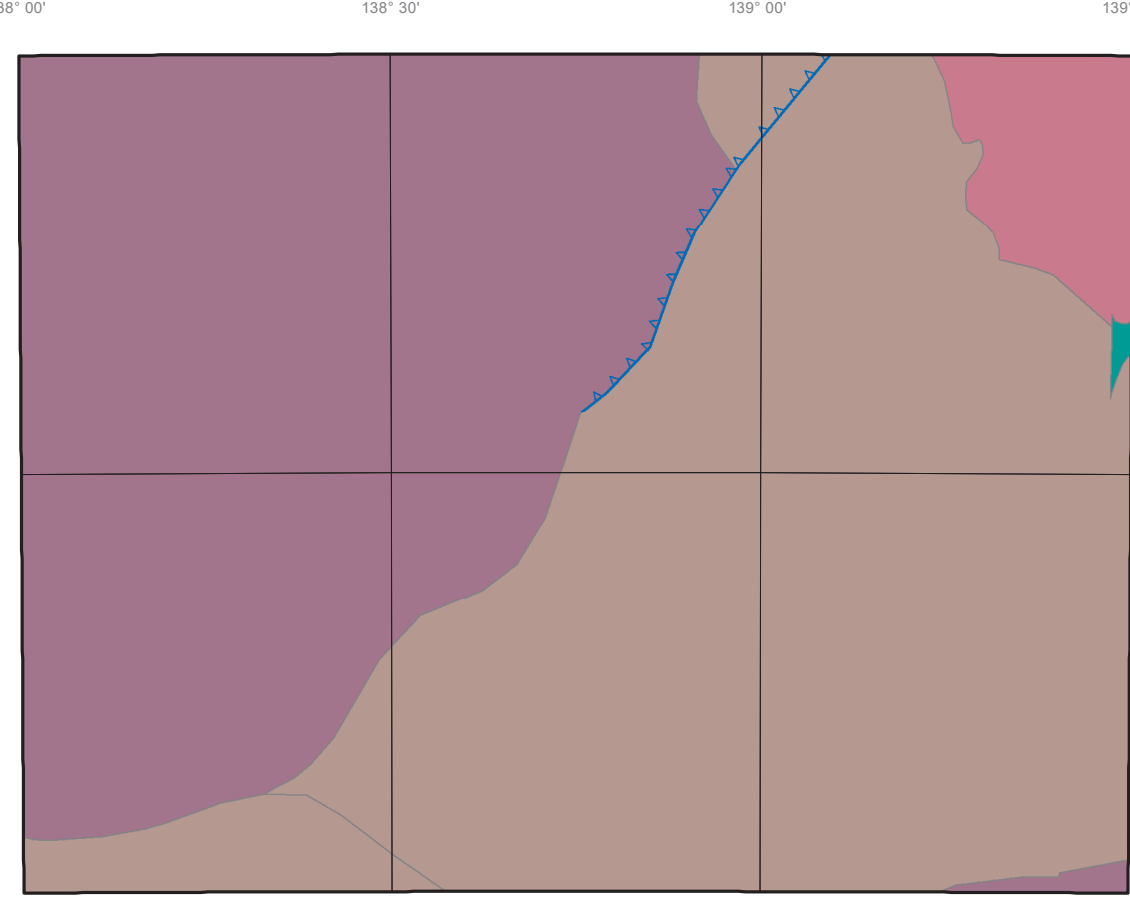
REFERENCE

- HOLOCENE**
- Oh₁ HOLOCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium; current channel.
 - Oh₂ HOLOCENE ALLUVIAL UNIT 2: Holocene sand capping dunes in lowlands.
 - Oh₃ HOLOCENE LACUSTRINE/PLAYA UNIT 1: Holocene playa sediments.
- PLEISTOCENE**
- Op₁ QUATERNARY REGUOLITHOCLASTIC UNIT 1: Quaternary glacial-mounded colluvium. Based on Qm MURDOCCOPPE.
- PLEISTOCENE**
- Op₂ PLEISTOCENE DYPRETE: Unconsolidated Pleistocene gypcrete.
 - Op₃ PLEISTOCENE ALLUVIAL/FLUVIAL UNIT 3: Pleistocene yellow, grey, brown to red sand, clay, mostly younger than Kopper Formation but may also include older and older Tertiary sediments. Based on Qm MURDOCCOPPE.
 - Op₄ KATIPPE FORMATION: Sand, white to yellow and orange, fine-grained. Fine channel deposits, lacustrine channel deposits.
 - Op₅ PLEISTOCENE LACUSTRINE/PLAYA SEDIMENTS: Unconsolidated Pleistocene lacustrine/ playa sediments: fossiliferous clay, sandy clay and minor limestone.
 - Op₆ PLEISTOCENE LACUSTRINE/PLAYA SEDIMENTS UNIT 2: Pleistocene playa margin/beach sediments: fine to coarse fossiliferous sand and gravel.
- PLIOCENE**
- Pt₁ TRARI FORMATION: Sand, medium-grained, silt, fine, gypiferous. Fluvial channel system and also aeolian.
 - Pt₂ WIPAJARI FORMATION: Arenite, red-brown, fine-grained, lacustrine sediments. Aeolian and evaporitic facies.
- MIOCENE**
- Mt₁ MAMPURWODU SAND: Sand, channel facies.
- OLIGOCENE-PLIOCENE**
- Ol₁ ETADUNA FORMATION: White dolomite and limestone with green and grey Mg rich claystone and fine-grained sand.
- Eocene-Miocene**
- Em₁ EOCENE-MIOCENE BELCHERE UNIT 1: Regionally older strata: aggrite. Late Eocene-Mid Miocene.
- PALEOCENE-EOCENE**
- Pe₁ EYRE FORMATION: Pyrite, carbonaceous sand; grain size ranges from silt to small coarse, with beds of lignite and clay. Clays are montmorillonitic, kaolinitic and illite. Basal channel drains.
- TERTIARY**
- T₁ TERTIARY ROCKS: Unconsolidated Tertiary rocks.
- CRETACEOUS**
- C₁ CRETACEOUS ROCKS: Unconsolidated Cretaceous rocks.
 - W₁ WINTON FORMATION: Shale, siltstone, sandstone. Non-marine, minor coal horizons.
 - M₁ MOUNT HOWE SANDSTONE MEMBER: Sandstone, medium to coarse-grained, cross-bedded.

TOTAL MAGNETIC INTENSITY IMAGE



SOLID GEOLOGY INTERPRETATION

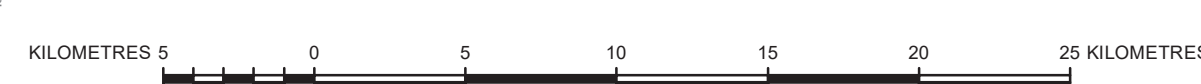


- Solid Geology**
- EO4 Cambrian-Ordovician unit 4
 - EOu Dullinger Group
 - Arv Arva Basalt
 - Em Mooracooche Volcanics
 - N Neoproterozoic rocks

Solid Geology - Linear Structure

Fault reverse isogenic upthrown side

SCALE 1:250,000



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Topographic detail based on TOPO-200K GEODATA (source scale 1:250 000) supplied by Geoscience Australia - National Mapping Division, ACT. The relationship between this data and OSM data is not guaranteed.

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.

Mapping and Completion by S.G. Forbes, Ph.D. with contribution by R.H. Tetlow, Ph.D., (American Museum of Natural History)

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

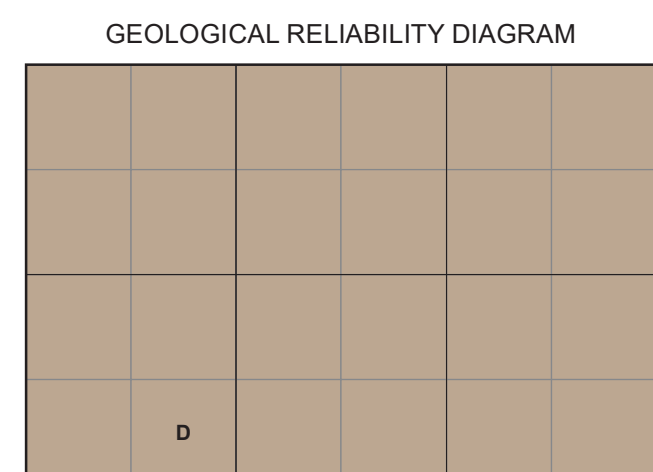
Geological boundaries displayed on this map have been derived from geological interpretation and are not intended to be used for navigational purposes.

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

Kopperamanna sheet published 1974

SCALE 1:200000

GEOLOGICAL RELIABILITY DIAGRAM



A Detailed ground traverses
B Image interpretation with limited ground traverses
C Image interpretation with potentially minor error ground traverses
D Image interpretation only

INDEX TO 1:100 000 SHEETS

Kitakittapooi 6541	Mulka 6641	Lake Hope 6741
Palankarinna Kopperamanna 6540	Gregory 6640	6740

INDEX TO ADJOINING 1:250 000 SHEETS

NOOLYENNA	GASON	KNAMNICKA
LAKE EYRE	KOPPERAMANNA	STREZLEOU
CLERMONT	MARREE	CALABRONA



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

CULTURAL FEATURES

- PRINCIPAL ROAD
- SECONDARY ROAD
- MINOR ROADS
- VEHICULAR TRACKS
- FENCE
- IDENTIFIED POINT
- BUILDING
- YARDS
- LANDING GROUND

HYDROGRAPHIC AND GEOMORPHIC FEATURES

- LAKE
- INTERMITTENT LAKE
- MAJOR WATERCOURSE
- MINOR WATERCOURSE
- FLOODPLAIN
- SWAMP
- WATERHOLE
- BORE
- WATER TANK
- SAND RIDGE

GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY POSITION ACCURATE

GEOLOGICAL BOUNDARY POSITION APPROXIMATE