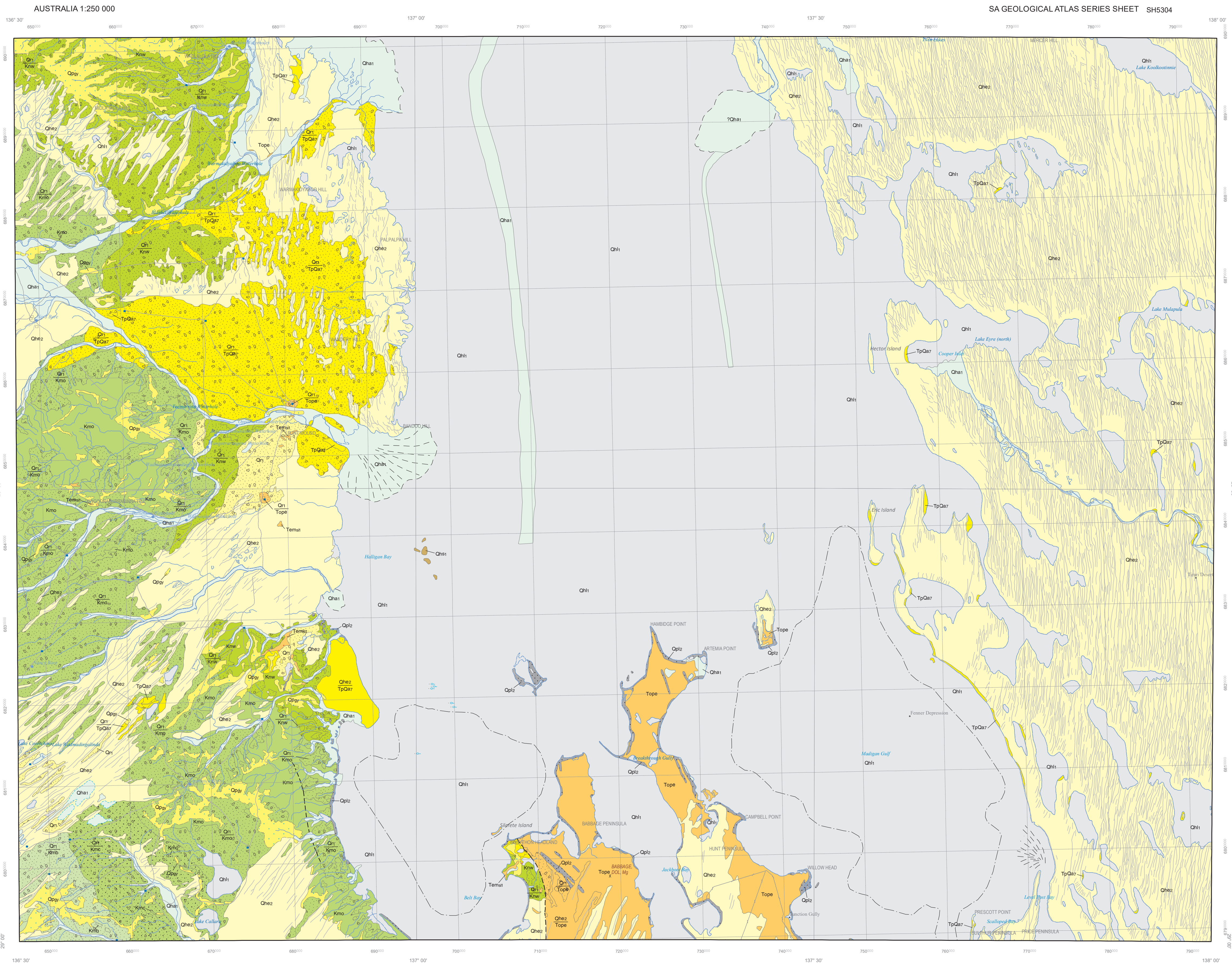


LAKE EYRE

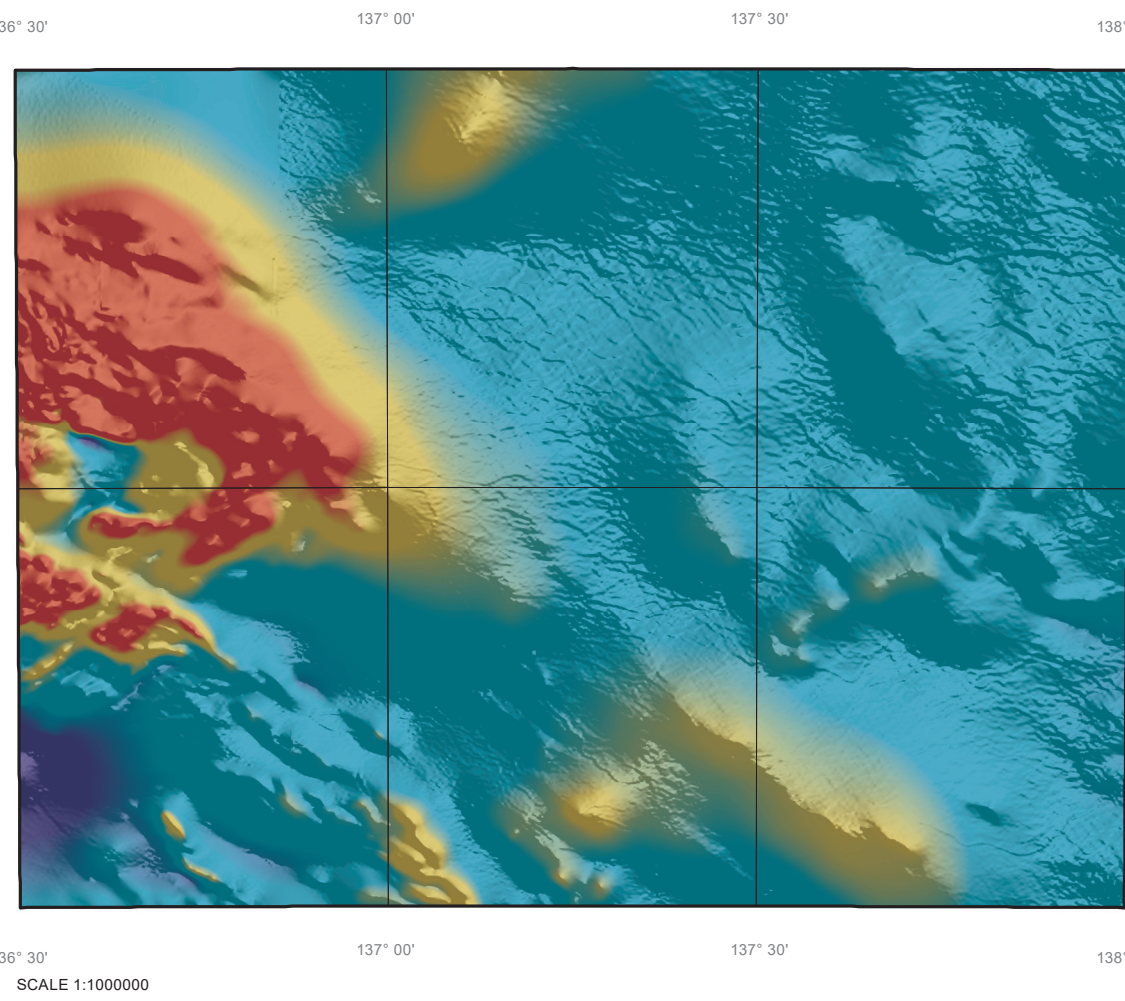
GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING



REFERENCE

HOLOCENE	
Qh1	HOLOCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium; recent floodbeds
Qh2	HOLOCENE AECLEAN UNIT 2: Holocene sand capping dunes in lowlands
Qh3	HOLOCENE LACUSTRINE/PLAYA UNIT 1: Holocene playa sediments
Qh4	HOLOCENE LACUSTRINE/PLAYA UNIT 2: Holocene playa margin/beach sediments
Qh5	HOLOCENE SPRING UNIT 1: Holocene mound spring; limestone-oriented sediments or limestone
PLEISTOCENE-HOLOCENE	
Qh1	QUATERNARY AECLEAN UNIT 1: Quaternary dune/sand
Qh2	QUATERNARY AECLEAN UNIT 2: Quaternary interdune silt and sand based on Qr on CURDMURRA
Qh3	QUATERNARY RESOLITH/COLLUVIAL UNIT 1: Quaternary gobe-mantled colluvium. Based on Q on MURDOCCPHE
PLEISTOCENE	
Qp1	PLEISTOCENE LACUSTRINE/PLAYA SEDIMENTS UNIT 2: Pleistocene clay margin/beach sediments; fine to coarse fossiliferous sand and gravel
Qp2	PLEISTOCENE RESOLITH/COLLUVIAL UNIT 2: Pleistocene red-brown structured clay with gobe-mantle
Qp3	PLEISTOCENE GYPHRETE: Undifferentiated Pleistocene gypcrete
Qp4	PLEISTOCENE GYPHRETE UNIT 1: Pleistocene high-level gypcrete; WARRINA area
Qp5	PLEISTOCENE GYPHRETE UNIT 2: Pleistocene low-level gypcrete; WARRINA area
PLIOCENE-PLEISTOCENE	
Qp1	PLIOCENE-PLEISTOCENE ALLUVIAL/FLUVIAL UNIT 1: Sand, clay, multi-colored, consolidated, in channels, some vertebrate remains, fossilized in place. Clay, coarse sand, gravel west of Lake Eyre. Pliocene and Pleistocene. Pliocene to Quaternary
OLIGOCENE-PLIOCENE	
Qp1	ETADUNA FORMATION: White dolomite and limestone with green and grey Mg rich dolomite and fine-grained sand
Eocene-Miocene	
Qp1	Eocene-Miocene SILICRETE UNIT 1: Regionally older silcrete, approx Late Eocene-Mid Miocene
CRETACEOUS	
Qp1	WINTON FORMATION: Shale, siltstone, sandstone. Non-marine, minor coal horizons
Qp2	COONADATTA FORMATION: Claystone and siltstone, interbedded with fine-grained sandstone, calcareous and ferruginous concretions, limestone with calcareous and basalt veins
Qp3	COORIKIANA SANDSTONE: Sandstone, very fine to fine-grained, calcareous, clayey, rarely siliceous, minor siltstone
Qp4	BILLONG SHALE: Mudstone, grey, bituminous, fossiliferous and shaly; minor silt to very fine-grained sandstone intervals

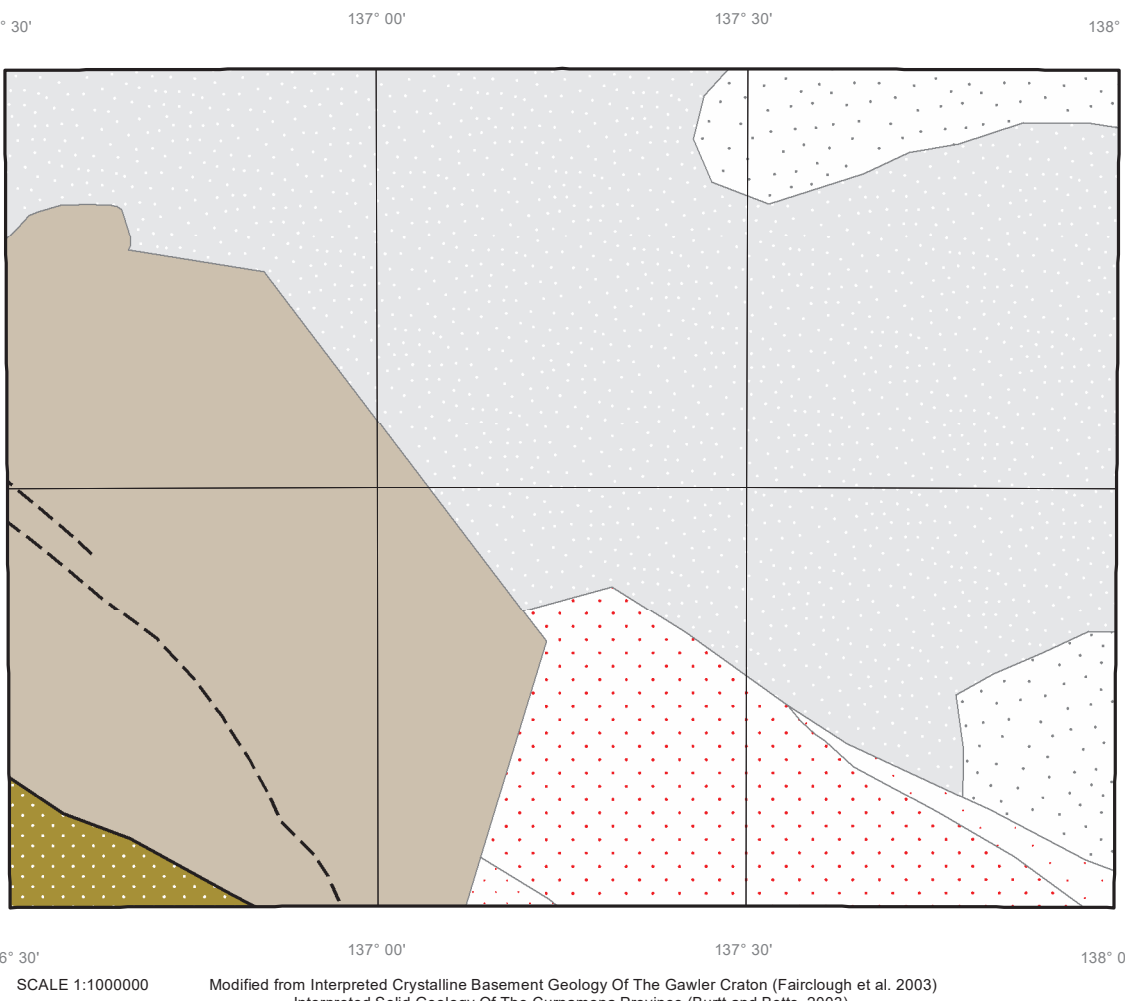
TOTAL MAGNETIC INTENSITY IMAGE



The Total Magnetic Intensity Image has been compiled using aeromagnetic data from the Department for Energy and Mining, South Australia. Aeromagnetic data have been merged, gridded and image generated by the Geological Survey of South Australia.

A two standard deviation contrast stretch has been applied to the raster image above.

SOLID GEOLOGY INTERPRETATION



Modified from Interpretative Basement Geology Of The Greater Craton (Falkingham et al. 2003)
Interpreted Solid Geology Of The Coomeroo Province (Burt and Bell, 2003)
Mangrove Block, Central Australia, regional geology from interpretation of aeromagnetic data (Baker and Bennett, 2002), Solid Geology South Australia (Corney, 2006)

Solid Geology	
LM12	Paleoproterozoic-Mesoproterozoic unit 12
Le	Peak Metamorphics
AM2	Archean-Mesoproterozoic unit 2
AM5	Archean-Mesoproterozoic unit 5
AM6	Archean-Mesoproterozoic unit 6
AM7	Archean-Mesoproterozoic unit 7

Solid Geology - Linear Structure

Fault position accurate	---
Fault position approximate	---

SCALE 1:250,000



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

Computer generated from SA GEOLOGY database (Digital data available upon request)
Current version 2016 Digital

Product of Spatial Information Services
Published by, and with the authority of, the Department for Energy and Mining SA

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.

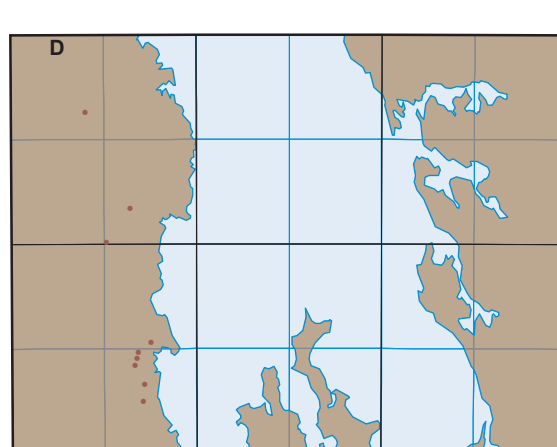
Compiled by A.F. Williams, B.Sc.(Hons), Mapping by A.F. Williams, B.Sc.(Hons), and G.W. Kiep, B.Sc.(Hons)

R.C. Cobcroft, 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



Lake Eyre sheet published 1975
Geological Field Observations

A: Detailed ground survey
B: Image interpretation with limited ground traverses
C: Image interpretation with potentially some minor ground traverses
D: Image interpretation only

INDEX TO 1:100 000 SHEETS

Piarooka 6241	Lake Eyre 6341	Koolookooline 6441
Douglas 6240	Jackboot Bay 6340	Medigan Gulf 6440

INDEX TO ADJOINING 1:250 000 SHEETS
Magnetic Declination 2000
(Annual variation +1.4 minutes)

COONADATTA	NOOLVENA	GASON
WARRINA	LAKE EYRE	KUPPERAMUNNA
BILLA KALINA	CURDMURRA	MARRIE



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

GEOLOGICAL BOUNDARY

ALLUVIAL FAN	---
GEOLOGICAL BOUNDARY POSITION ACCURATE	---
GEOLOGICAL BOUNDARY POSITION APPROXIMATE	---
SWAMP MARSH	---

CULTURAL FEATURES

SPRING	---
VEHICULAR TRACKS	---
FENCE	---
IDENTIFIED POINT	---
YARDS	---

COMMODITIES

DCL	Dolomite
Mg	Magnesium

LINEAR STRUCTURES

ALLUVIAL FAN	---
FAULT POSITION APPROXIMATE	---
MISCELLANEOUS BOUNDARY	---

HYDROGRAPHIC AND GEOMORPHIC FEATURES

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

MINING

PROSPECT	X
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