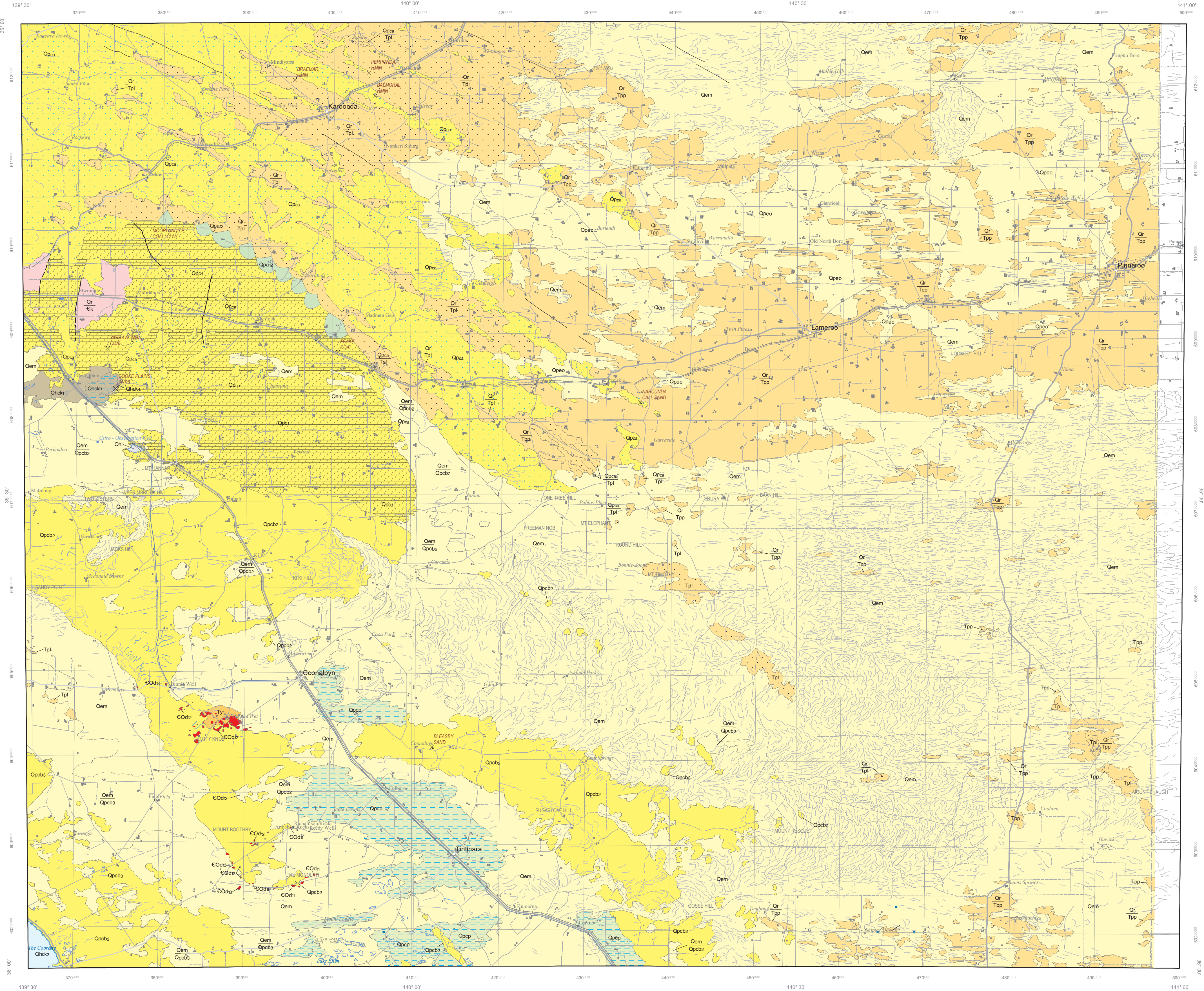


PINNAROO

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

SA GEOLOGICAL ATLAS SERIES SHEET S15414

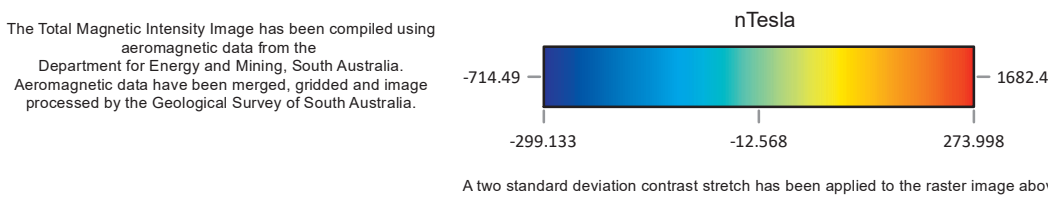
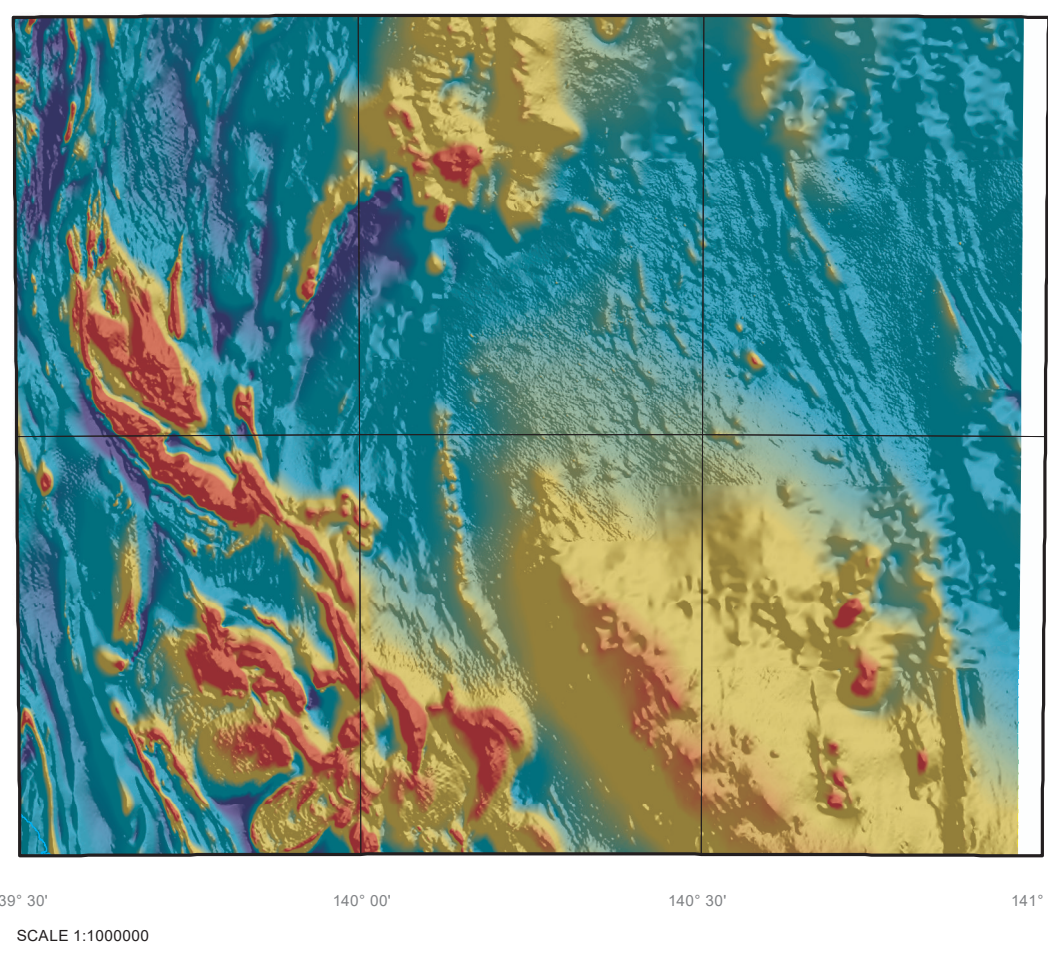
AUSTRALIA 1:250 000



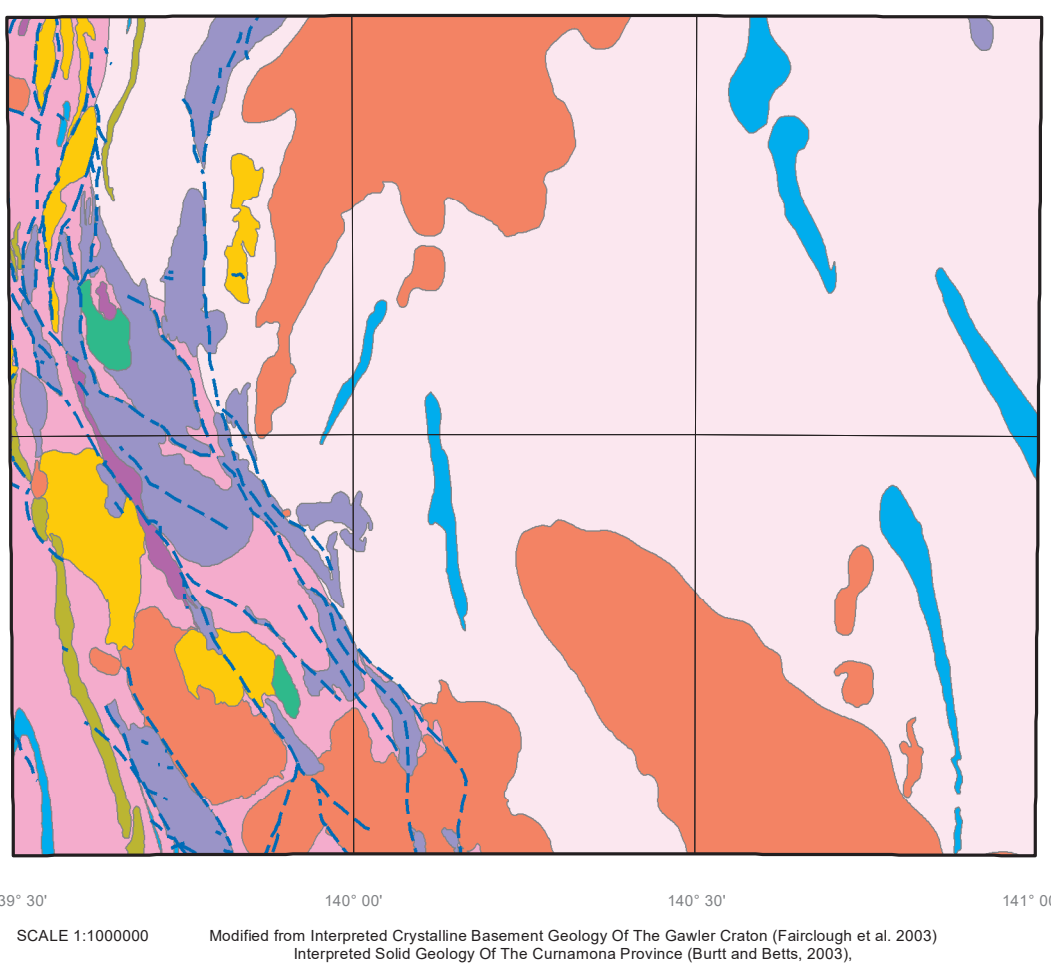
REFERENCE

HOLOCENE	
Qh ₁	SAINT KILDA FORMATION UNIT 1: Lagoon, lacustrine sediments, shell beds. South-East geology map revision.
Qh ₂	LE HUNTE MEMBER: Gypsiferous lacustrine sediment of coastal saline water.
Qh ₃	SAINT KILDA FORMATION UNIT 4: Supratidal clay/gypsiferous sand/silt/clay.
Qh	HOLOCENE LACUSTRINE/PLA SEDIMENTS: Undifferentiated Holocene lacustrine/silt/sand/sediments.
PLEISTOCENE-HOLOCENE	
Q	QUATERNARY ROCKS: Undifferentiated Quaternary rocks.
Qm	MOLINEUX SAND: Sand, pale yellow, fine to medium-grained quartzose.
Qm ₁	MOLINEUX SAND UNIT 1: This sand overlay is used in Qm on PINNAROO.
Qr	QUATERNARY REGOLITH/COLLUVIAL SEDIMENTS: Undifferentiated Quaternary regolith/colluvial sediments.
PLEISTOCENE	
Qp ₁	BRIDGEWATER FORMATION UNIT 3: Upper Member: Based on Qp ₁ on STREAKY BAY.
Qp ₂	BRIDGEWATER FORMATION UNIT 2: Lower Member: Based on Qp ₂ on STREAKY BAY.
Qp ₃	PATHWAY FORMATION: Mudstone, calcic and dolomitic, white; clay, greenish, quartz sand, clayey. Lacustrine. Fresh-water fossils.
Qp ₄	PLEISTOCENE ALLUVIAL/FLOODING UNIT 12: Pleistocene sand and gravel of low angle alluvial fans.
Qp ₅	PLEISTOCENE COASTAL UNIT 1: Dolomite, silt, lagoon.
Qp ₆	WOOREN FORMATION: Sand, pale reddish-brown silty and clayey with progynous calcareous detritus.
Qp ₇	PLEISTOCENE CALCAREOUS: Undifferentiated Pleistocene calcareous.
PLIOCENE	
Tp ₁	PADILLA SAND MEMBER: Sand, fine to medium-grained, calcareous, non-marine, clayey, quartz rich, sandy clay. Aulac, lacustrine and fluvial deposits.
Tp ₂	LONDON SAND: Sand, glauconitic, micaceous and shelly gravel. Coarse-grained sand and the gravel, and calcareous micaceous, medium to coarse-grained sandstone. Shallow marine, beach, dune, lacustrine and fluvial.
GLAUCONITE-MIOCENE	
Tp ₃	MURRAY GROUP UNIT 1: Undifferentiated Pinn Formation: Morgan Subgroup and Murray Formation: limestone, schistosity, dykes, coarse sandstone, calcareous, minor carbonaceous clay and silt.
CAMBRIAN-ORDOVICIAN	
EO ₁	DELMERIAN ONCOCUS UNIT 11: Aalenella, pink, medium to coarse-grained, microporous, quartz-feldspar-hornblende-biotite. Based on O ₁ on PINNAROO.
EO ₂	DELMERIAN ONCOCUS UNIT 12: Granite, pink, medium to coarse-grained, microporous, quartz-feldspar-hornblende-biotite. Based on O ₂ on PINNAROO.
EO ₃	DELMERIAN ONCOCUS UNIT 13: Leucogranite, fine to coarse-grained, microporous, not to pink, feldspar-bearing. Based on O ₃ on PINNAROO.
CAMBRIAN	
Ek	KAMAMITOO GROUP: Marine meta-sandstone, phyllite, schist, gneiss, minor calcareous rock and marble.

TOTAL MAGNETIC INTENSITY IMAGE



SOLID GEOLOGY INTERPRETATION



EO105	Delamerian igneous unit 25	Ek	Kamamitoo Group
EO106	Delamerian igneous unit 26	Ek4	Kamamitoo Group unit 4
EO107	Delamerian igneous unit 23	Ek3	Kamamitoo Group unit 3
EO108	Delamerian igneous unit 24	EO9	Morlatina Supergroup unit 9
EO		EO	Cambrian-Ordovician rocks

Solid Geology - Linear Structure

Fault position approximate

SCALE 1:250,000



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2020

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 DEM 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.

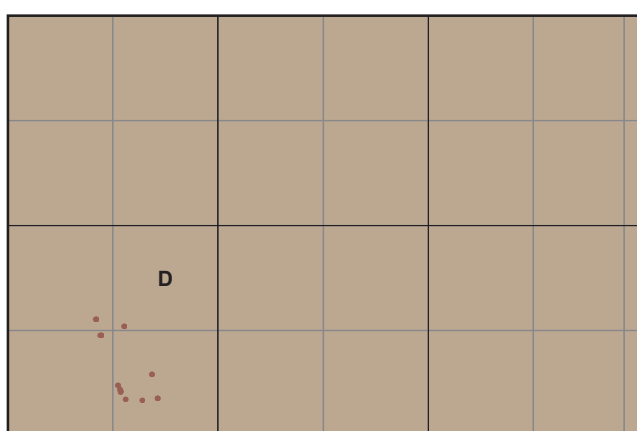
The lake boundaries displayed on this map may have been derived from geological interpretation and may not match lakes interpreted by topographic mapping authorities.
Not all structures are represented on this particular sheet.

Mapping and Compilation by P.A. Rogers, B.Sc.(Hons), R.C. Whitehead, and C. Windsor
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



Pinnaroo sheet published 1979

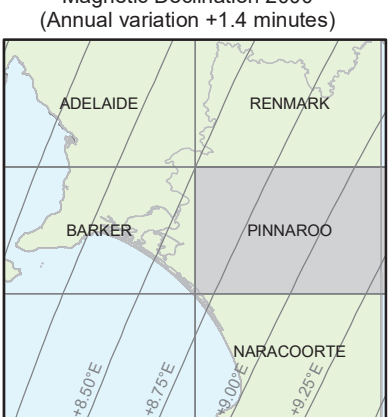
A Detailed ground traverses
B Image interpretation with limited ground traverses
C Image interpretation with potentially some minor ground traverses
D Image interpretation only

SCALE 1:200,000

INDEX TO 1:100 000 SHEETS

Moorlands 6827	Pinnaroo 6927	Pinnaroo 7027
Coonalbyn 6826	Tintinara 6926	McCallum 7026

INDEX TO ADJOINING 1:250 000 SHEETS



GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY POSITION ACCURATE
GEOLOGICAL BOUNDARY POSITION APPROXIMATE
LAKE

MINING

DEPOSIT - NO MINING
MINE - METALS AND INDUSTRIAL MINERALS
PIT/CUT - CONSTRUCTION MATERIALS (SAND AND/OR CLAY)

HYDROGRAPHIC AND GEOMORPHIC FEATURES

LAKE
INTERMITTENT LAKE
MINOR WATERCOURSE
BORE
WATER TANK
SAND RIDGE

CULTURAL FEATURES

PRINCIPAL ROAD
SECONDARY ROAD
MINOR ROADS
VEHICULAR TRACKS
OPERATIONAL RAILWAY
ABANDONED RAILWAY
WATER PIPELINE
IDENTIFIED POINT
BUILDING
LANDING GROUND
TOWN OR LOCALITY

LINEAR STRUCTURES

FAULT POSITION ACCURATE
FAULT POSITION APPROXIMATE
KARST FORMATIONS
LINEAMENT

COMMODITIES

CAU
CLAY
COAL
GYPS
HMN
SAND

Calcite
Clay
Coal
Gypsum
Heavy Minerals
Sand