

NOORINA

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

AUSTRALIA 1:250 000

SA GEOLOGICAL ATLAS SERIES SHEET SH5203

REFERENCE

PLEISTOCENE-HOLOCENE

- Qa** QUATERNARY ALLUVIAL/FLUVIAL SEDIMENTS: Undifferentiated Quaternary alluvial/fluvial sediments.
- Qa1** QUATERNARY AECLEAN UNIT 1: Quaternary dune/field sands.
- Qa2** QUATERNARY AECLEAN UNIT 2: Quaternary gypsiferous dune/clayettes.
- Qa3** QUATERNARY LACUSTRINE/PLAIN UNIT 1: Quaternary plays sediments.
- Qa4** QUATERNARY REGOLITH/COLLUVIAL SEDIMENTS: Undifferentiated Quaternary colluvial/regolith sediments.
- Qa5** QUATERNARY REGOLITH/COLLUVIAL UNIT 1: Quaternary giber-mantled colluvium. Based on Q on MURDOCKPPE.
- Qa6** QUATERNARY REGOLITH/COLLUVIAL UNIT 4: Quaternary calcareous sandy regolith. Interpreted from Landsat imagery. NOORINA, WELLS, WYOLA.

PLEISTOCENE

- Qp1ca** PLEISTOCENE CALCRETE: Undifferentiated Pleistocene calcrete.

Eocene-Pleistocene

- Tg** GARFORD FORMATION: Mudstone, carbonate, stromatolite, oncoid and calcic; petrosols, minor sandstone and gill horizons. Upward change from argillaceous to carbonate mudstone. Lacustrine to flood plain.
- Tsk** KASTA FORMATION: Sandstone, fine grained, sponge spicules, lamination, cross lamination, vertical Shallow burrows, small spores.

TERTIARY

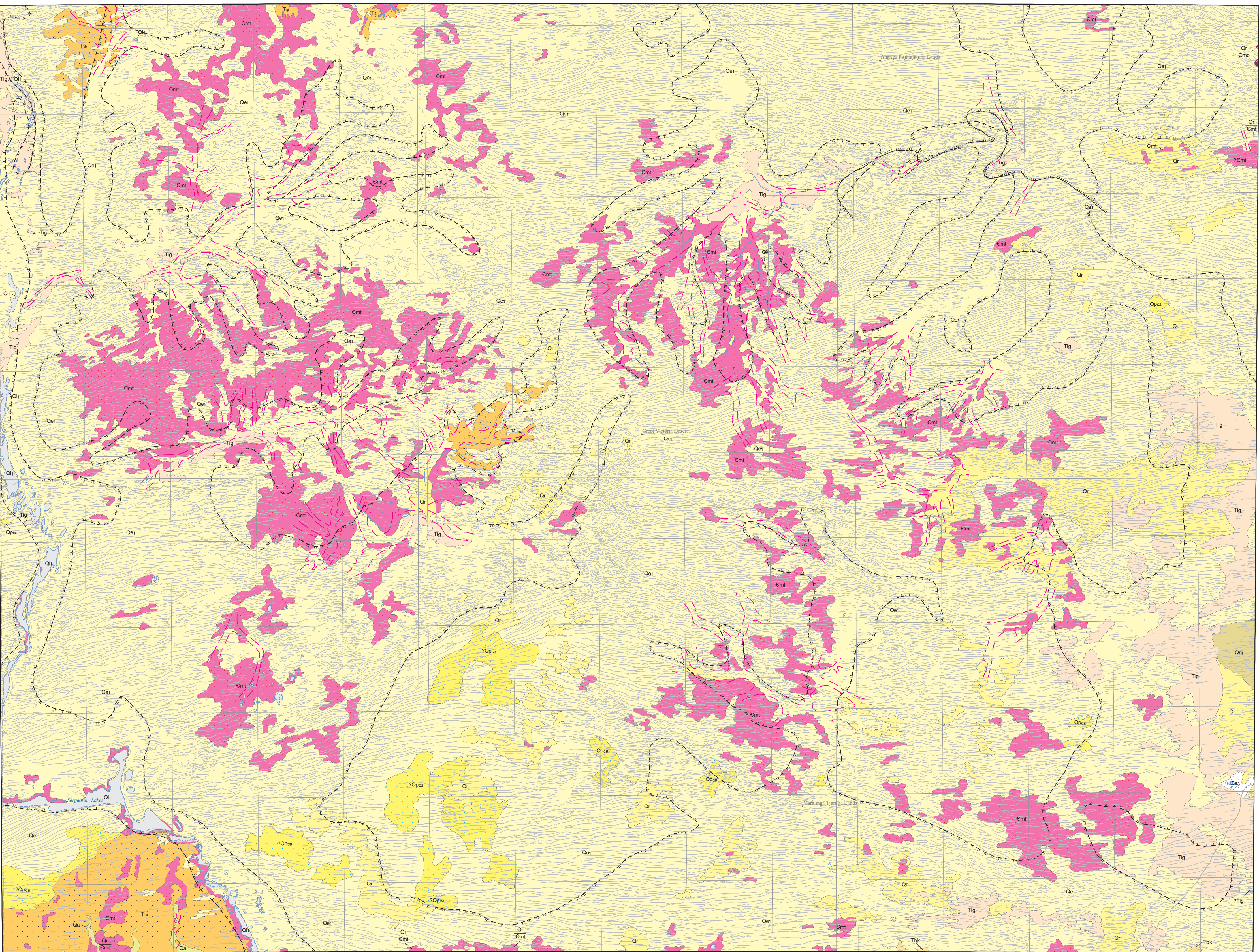
- Tp** TERTIARY FERROCRETE: Undifferentiated Tertiary ferrocrete.
- Ts** TERTIARY SILCRETE: Undifferentiated Tertiary silcrete.

ORDOVICIAN-SILURIAN

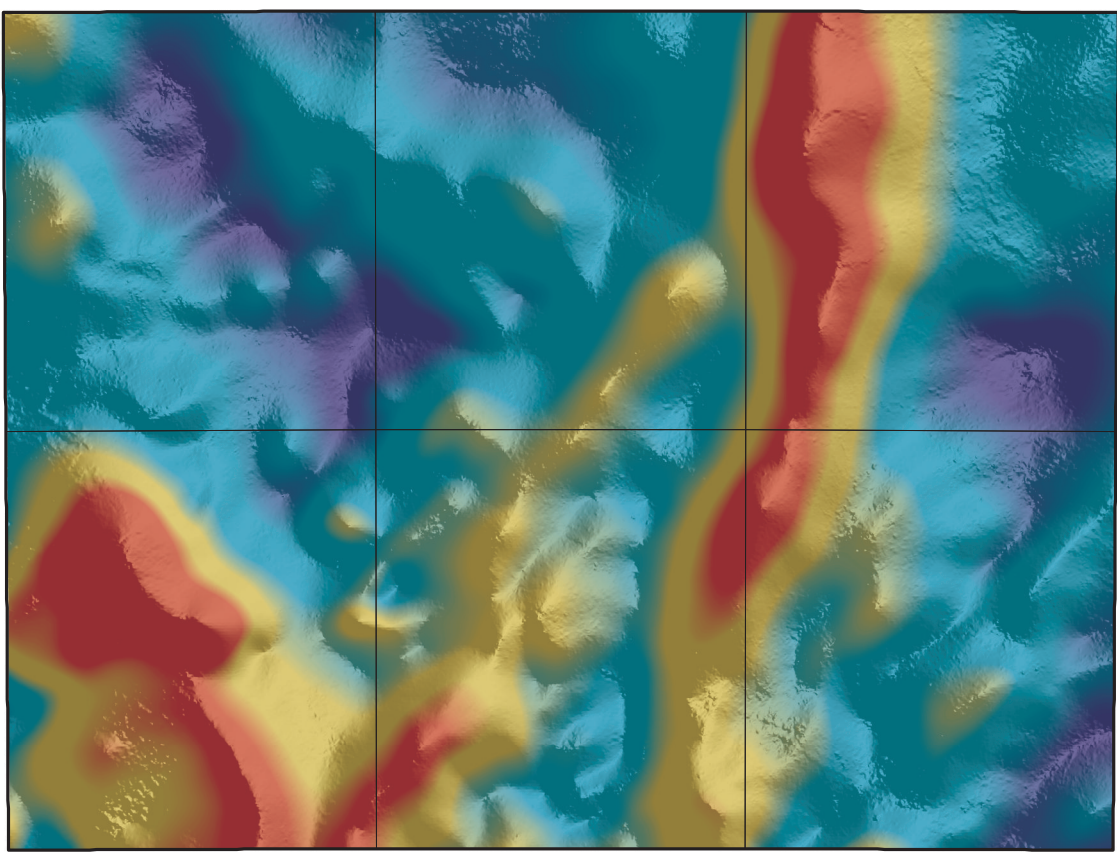
- Or** MOUNT CHANDLER SANDSTONE: Quartz sandstone, well rounded, fine to medium-grained, white, crossbeds with heavy mineral laminae, sandstone, sandstone, laminated, orange to reddish, minor layers of polished quartz pebbles.

CAMBRIAN

- Em** TRANSDOR HILL SANDSTONE: Sandstone, well-sorted, kaolinitic, micaceous, calcareous, white, grey, red-brown, siliceous and claystone, calcareous, red-brown, pebbly horizons.



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.

SOLID GEOLOGY INTERPRETATION



Modified from Interpreted Crystalline Basement Geology Of The Gawler Craton (Faulstich et al. 2003).
Interpreted Solid Geology Of The Gawler Craton (Burt and Bath, 2003).
Mangrove Block, Central Australia, regional geology from interpretation of aeromagnetic data (Baker and Bennett, 2003). Solid Geology South Australia (Corney, 2006).

Solid Geology

LM9 Palaeoproterozoic-Mesoproterozoic unit 9

Solid Geology - Linear Structure

Fault position accurate
Fault normal ticks on younger rocks

SCALE 1:250,000

KILOMETRES 0 5 10 15 20 25

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2020

Topographic detail based on TOPO-50K GEODATA (source code 1:250 000) supplied by Geoscience Australia - National Mapping Division, ACT. The relationship between this data and DGI data is not guaranteed.

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

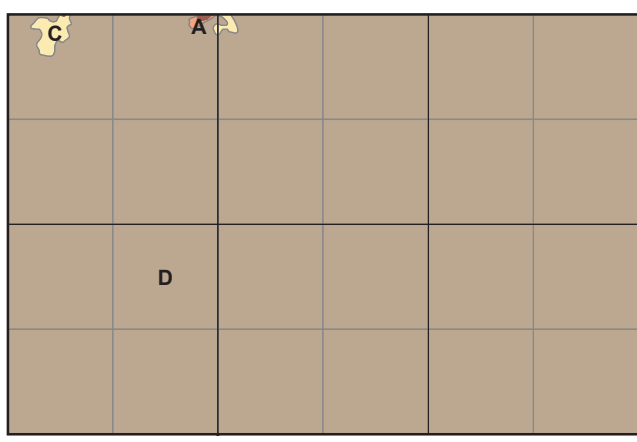
Mapping and Compilation by G.W. King, B.Sc.(Hons), from LANDSAT imagery with limited ground control, with contributions from M.D. Biribow, B.Sc., and G.M. Pitt, B.Sc.

R.C. Cabroft, 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



Noorina sheet preliminary published 1975
Geological Field Observations

A. Detailed ground traverses
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

Warregal 4741	Wurana 4841	Warroo 4941
Monoro 4740	Noorina 4840	Churina 4940

INDEX TO ADJOINING 1:250 000 SHEETS

Magnetic Declination 2000
(Annual variation +1.4 minutes)

BRISGATE	LINDSAY
MOORINA	WELLS
WYOLA	MAURICE



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

GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY POSITION ACCURATE
GEOLOGICAL BOUNDARY POSITION APPROXIMATE

LINEAR STRUCTURES

ESCARPMENT
ESCARPMENT APPROXIMATE TOPOGRAPHIC
DEPRESSION
GYPSITE DUNES
PALEOCHANNEL TRACE
TREND-LINE

CULTURAL FEATURES

VEHICULAR TRACKS
IDENTIFIED POINT

HYDROGRAPHIC AND GEOMORPHIC FEATURES

INTERMITTENT LAKE
MINOR WATERCOURSE
SAND RIDGE