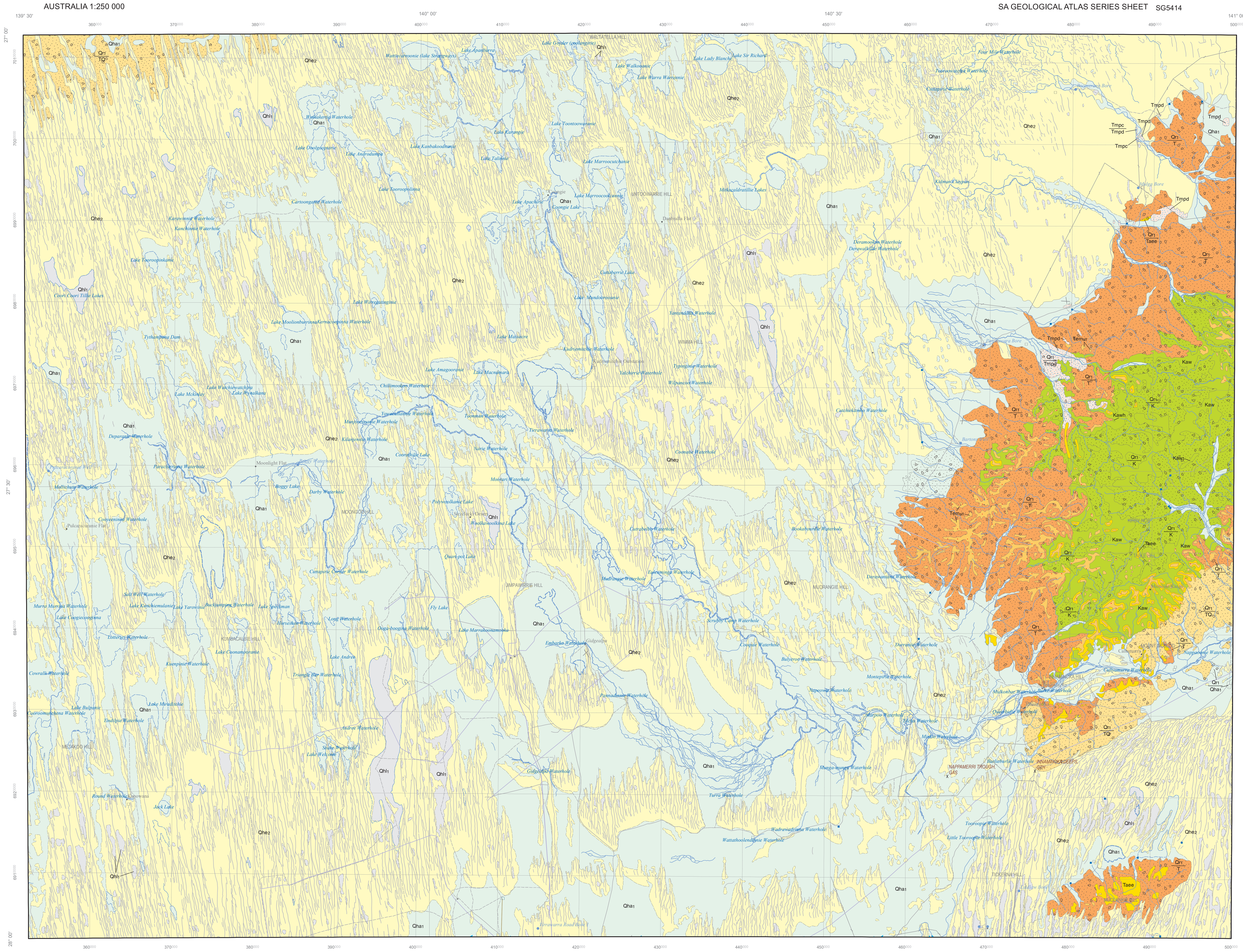
INNAMINCKA

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

AUSTRALIA 1:250 000

SA GEOLOGICAL ATLAS SERIES SHEET SG5414



REFERENCE

HOLOCENE

Qha_1	HOLOCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium; current bedload.
Qhe_2	HOLOCENE AEOLIAN UNIT 2: Holocene sand capping dunes in dunefields.
Qhl_1	HOLOCENE LACUSTRINE/PLAYA UNIT 1: Holocene playa sediments.

PLEISTOCENE-HOLOCENE

Qr_1	QUATERNARY REGOLITH/COLLUVIAL UNIT 1: Quaternary gibber-mantled colluvium. Based on Q on MURLOOCOPPIE.

MIOCENE-PLIOCENE

Tmpc	CADELGA LIMESTONE: Limestone, pale, cherty, dolomitic, lacustrine.
Tmpd	DOONBARA FORMATION: Sand, brick-red, pisolitic and ferruginous, fine to medium-grained, coarse to pebbly at base. Fluvial facies.

EOCENE-MIOCENE

$Tem\backslash si_1$	EOCENE-MIOCENE SILCRETE UNIT 1: Regionally older silcrete; approx Late Eocene-Mid Miocene.

TERTIARY-PLEISTOCENE

TQ	TERTIARY-PLEISTOCENE ROCKS: Undifferentiated Tertiary to Pleistocene rocks.

PALEOCENE-EOCENE

Taee	EYRE FORMATION: Pyritic, carbonaceous sand, grain-size ranges from silt to small cobble, with beds of lignite and clay. Clays are montmorillonite, kaolinite and illite. Braided streams.

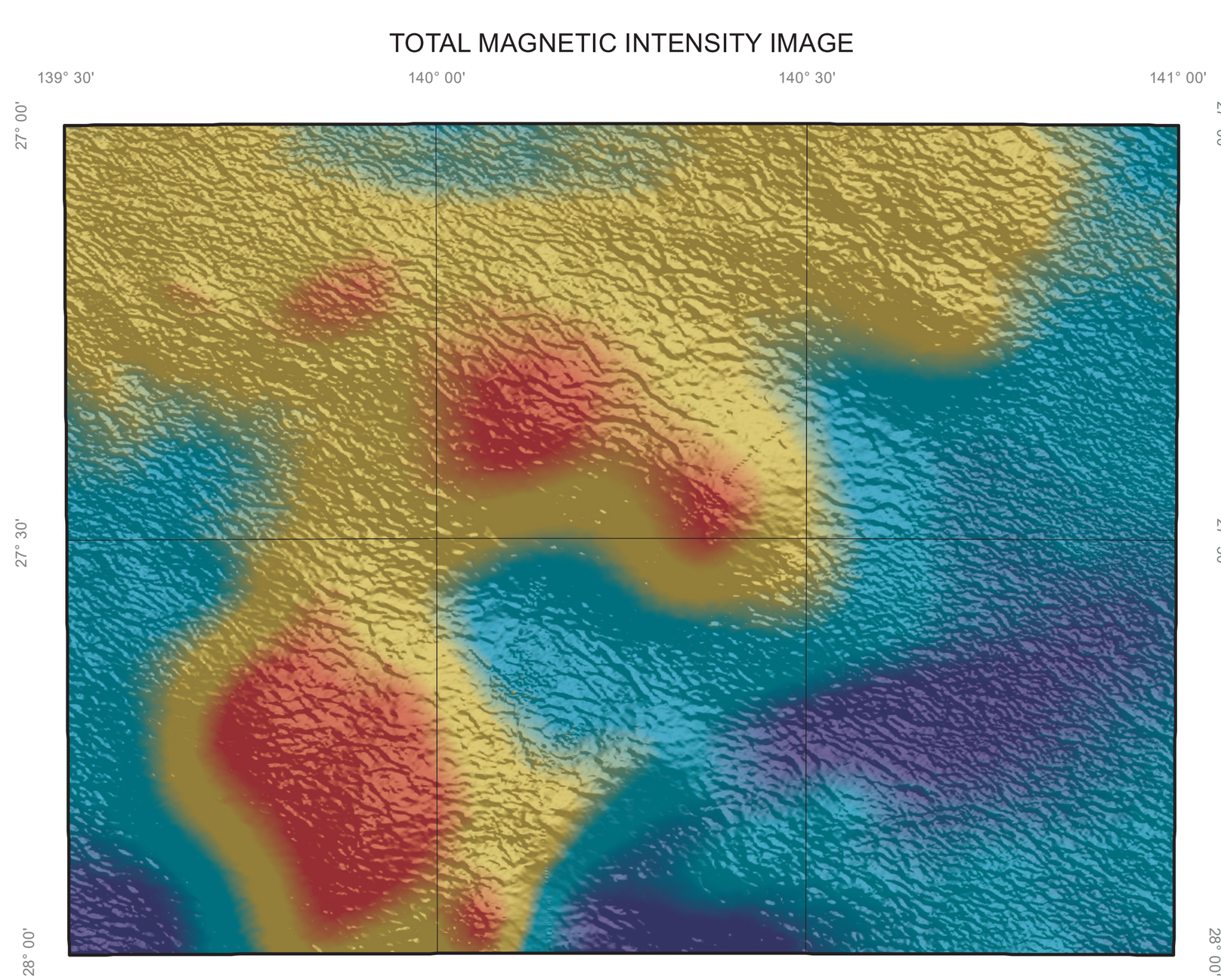
TERTIARY

T	TERTIARY ROCKS: Undifferentiated Tertiary rocks.

CRETACEOUS

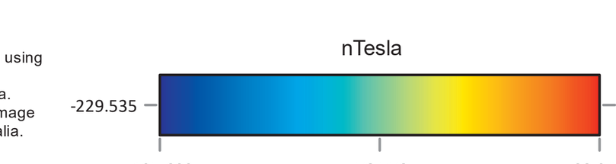
K	CRETACEOUS ROCKS: Undifferentiated Cretaceous rocks.
Kawh	MOUNT HOWIE SANDSTONE MEMBER: Sandstone, medium to coarse-grained, crossbedded.
Kaw	WINTON FORMATION: Shale; siltstone; sandstone. Non-marine, minor coal horizons.
Kaw_1	WINTON FORMATION UNIT 1: Limestone, sandy, dark green grey, leaf impressions. Based on Kub (equated with Beetoota Limestone) within Knw on INNAMINCKA.

TOTAL MAGNETIC INTENSITY IMAGE



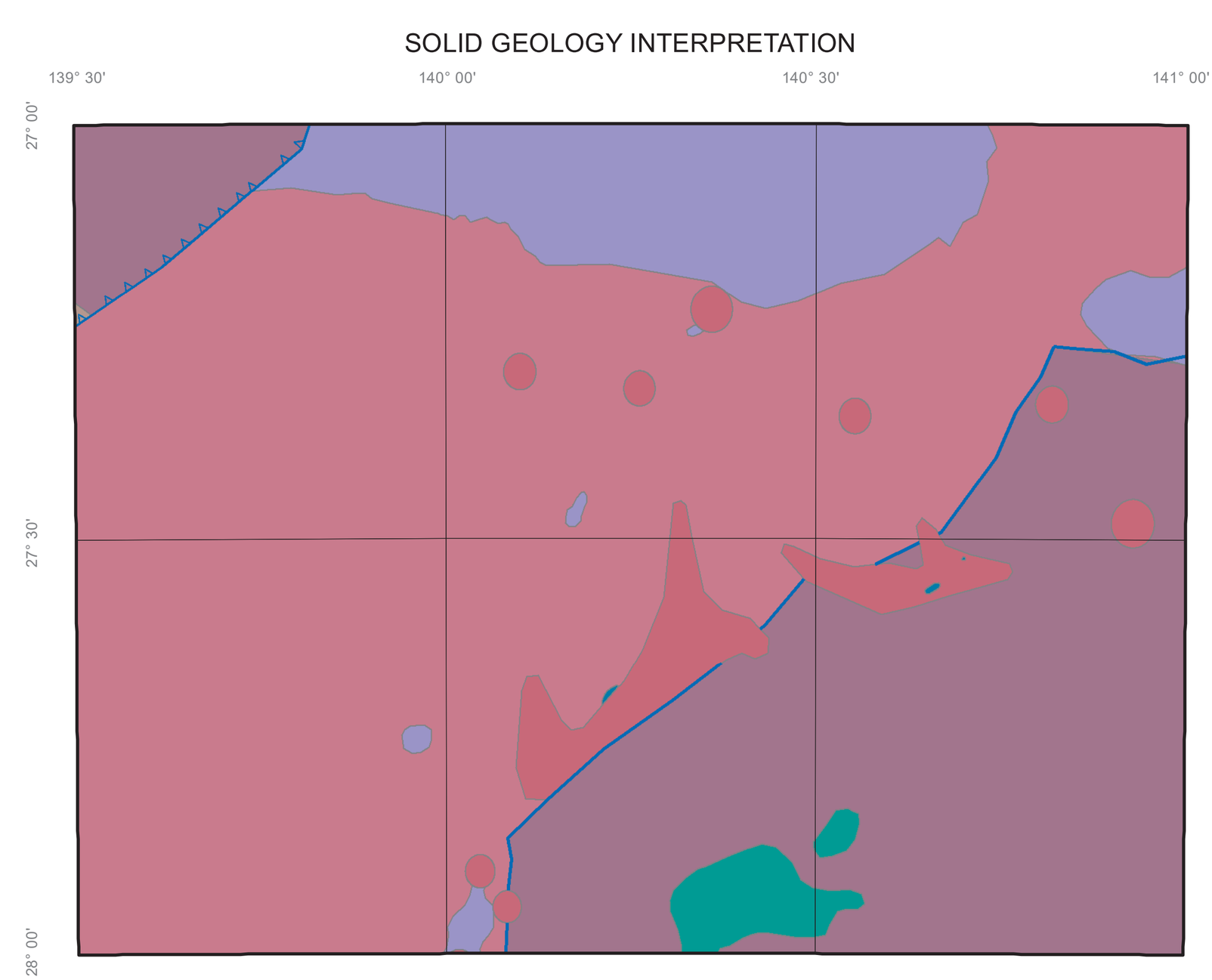
SCALE 1:1000000

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 processed by the Geological Survey of South Australia.



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

SOLID GEOLOGY INTERPRETATION



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Modified from Interpreted Crystalline Basement Geology Of The Gawler Craton (Fairclough et al. 2003) Interpreted Solid Geology Of The Curnamona Province (Burtt and Betts, 2003), Musgrave Block, Central Australia: regional geology from interpretation of aeromagnetic data (Rankin and Newton, 2002), Solid Geology South Australia (Cowley, 2006).

Solid Geology

O-i	Innamincka Formation	E-j	Jena Basalt
O-ip	Pondrinie Basalt Member	E-m	Mooracoochie Volcanics
EO4	Cambrian-Ordovician unit 4 - Diamond Bog Dolomite; Kalladeina Formation; Pando Formation	N	Neoproterozoic rocks
EOu	Dullingari Group		

Solid Geology - Linear Structure

Fault position accurate

Fault reverse triangles upthrown side

Government of South Australia
Department for Energy and Mining

GDA2020

SCALE 1:250,000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

Topographic detail based on TOPO-250K GEODATA (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

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.

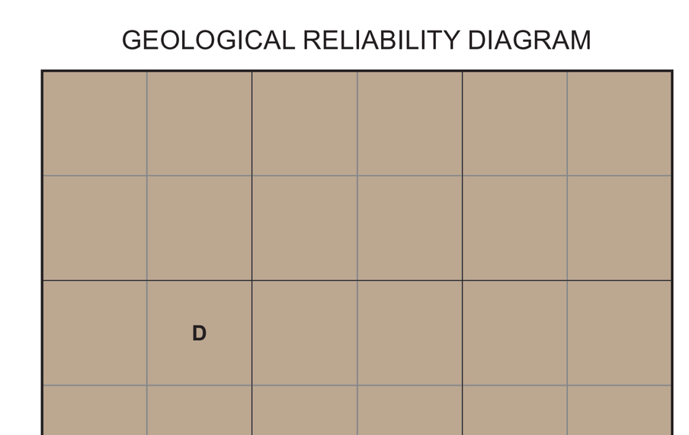
Compiled by I.J. Townsend, B.Sc., and R.C.N. Thornton, B.Sc.(Hons). Mapping by H. Wopfner, Ph.D., I.J. Townsend, B.Sc., and R.C.N. Thornton, B.Sc.(Hons)

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



Innamincka sheet published 1975 SCALE 1:2000000

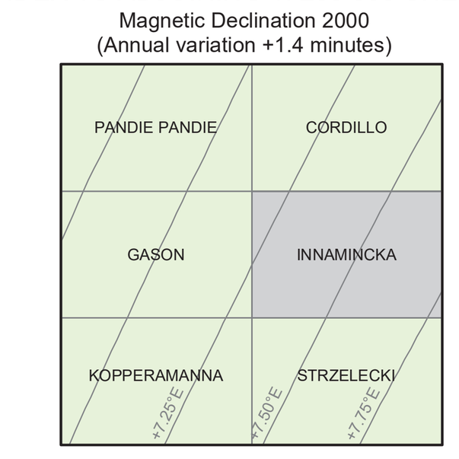
A: Detailed ground traverses
B: Image interpretation with limited ground traverses
C: Image interpretation with potentially some minor ground traverses
D: Image interpretation only

INDEX TO 1:100 000 SHEETS

Christmas Creek 6843	Coongie 6943	Patchawara 7043
Kanowana 6842	Gidgealpa 6942	Innamincka 7042

INDEX TO ADJOINING 1: 250 000 SHEETS

Magnetic Declination 2000
(Annual variation +1.4 minutes)



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

GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY POSITION ACCURATE
GEOLOGICAL BOUNDARY POSITION APPROXIMATE
LAKE

COMMODITIES

GAS	Gas
GTH	Geothermal Energy

MINING

PROSPECT X

CULTURAL FEATURES

PRINCIPAL ROAD
MINOR ROADS
VEHICULAR TRACKS
FENCE
GAS, OIL PIPELINE
PIPELINE
IDENTIFIED POINT
BUILDING
YARDS
STORAGE TANKS
LANDING GROUND

HYDROGRAPHIC AND GEOMORPHIC FEATURES

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

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