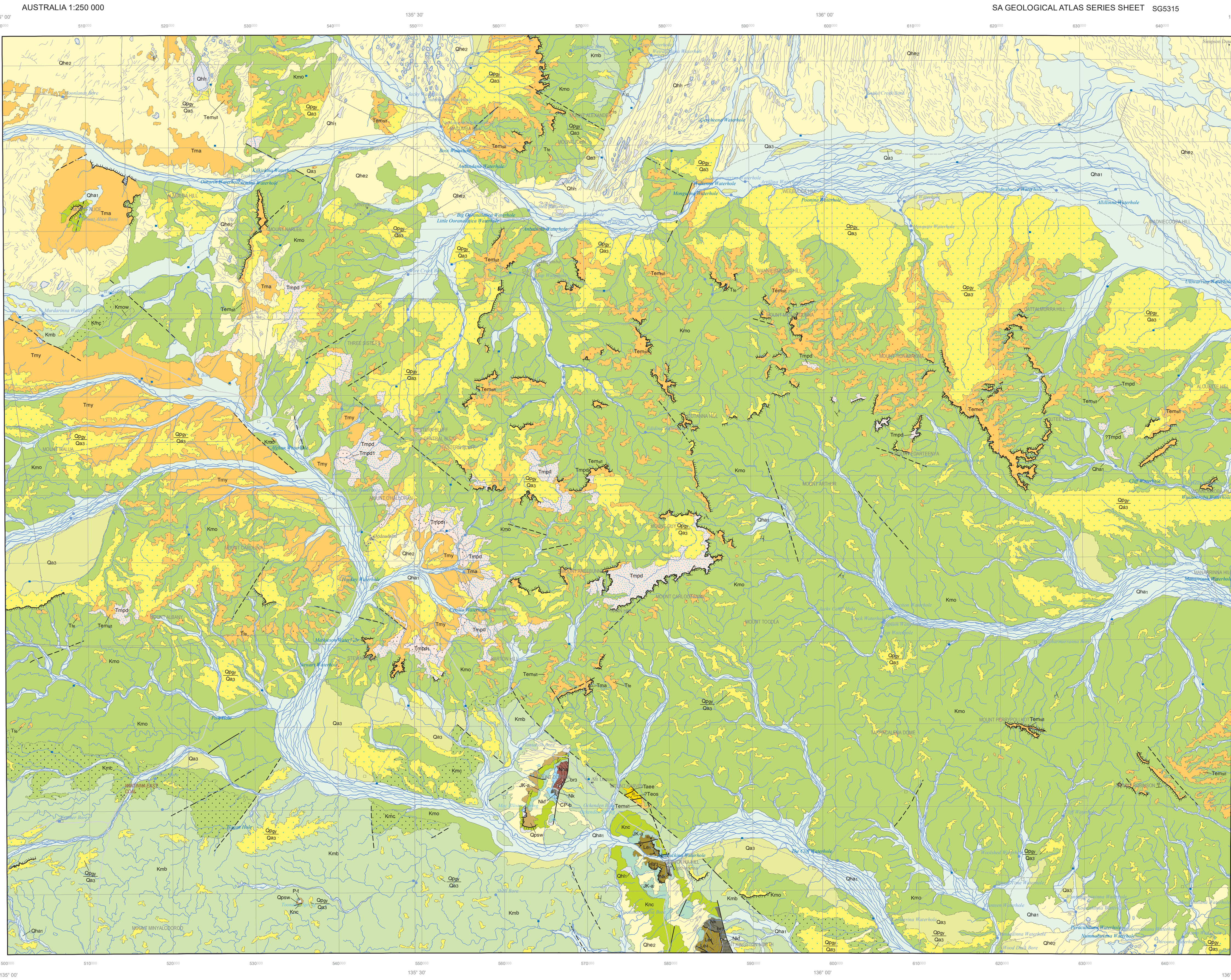


OODNADATTA

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

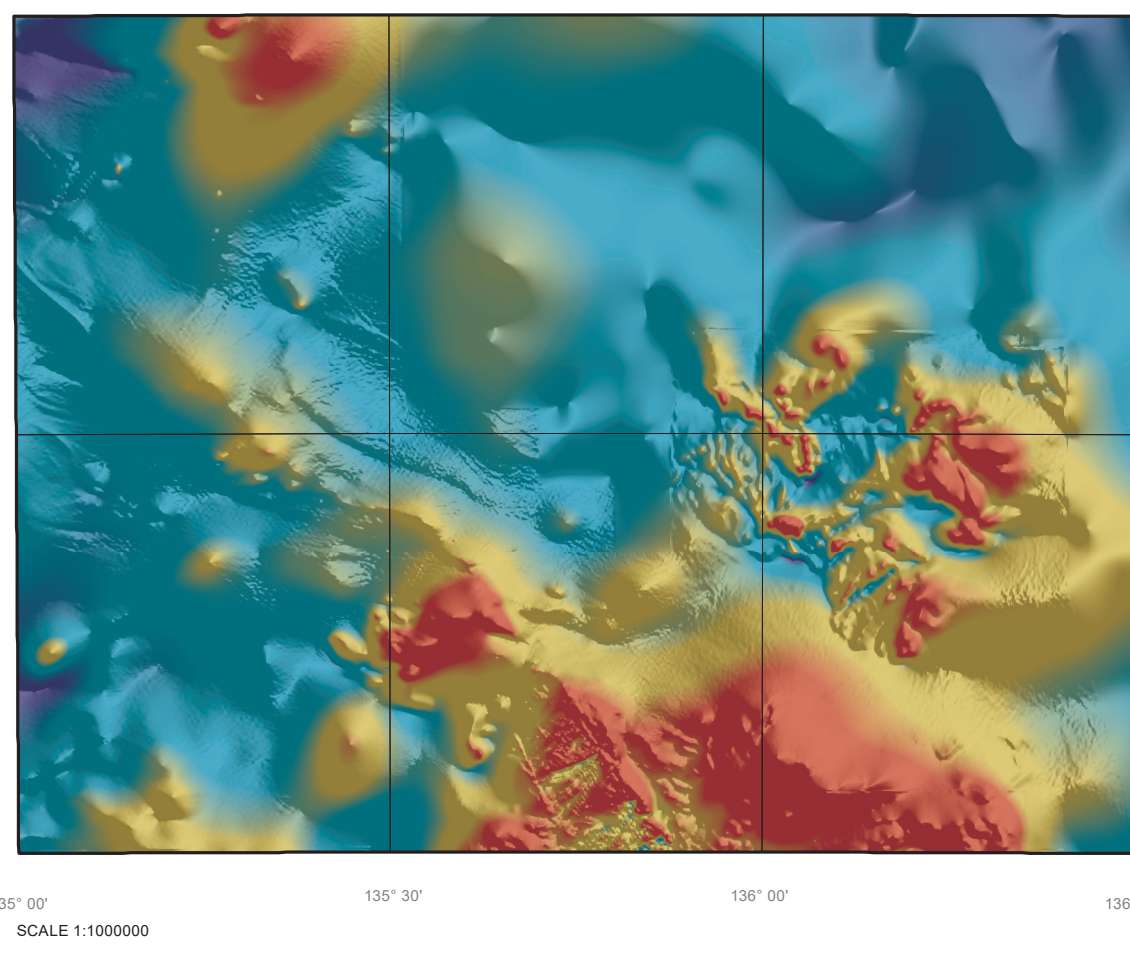
SA GEOLOGICAL ATLAS SERIES SHEET SG5315



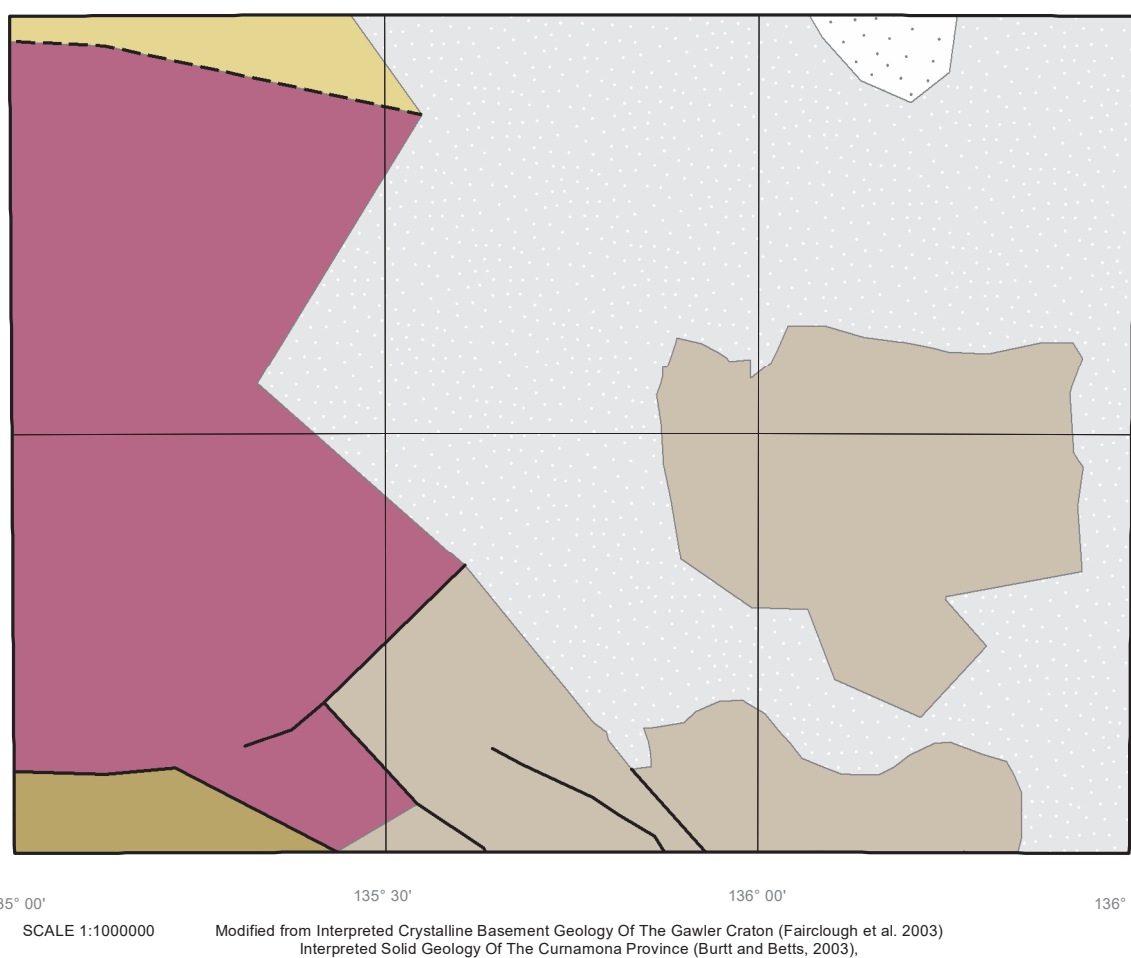
REFERENCE

HOLOCENE	PERMIAN
Qh1 HOLOCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium; current landform.	P1 MOUNT TOODKANA FORMATION: Silstone and sandstone interbedded with coal, shale and rare carbonate. Depositional environments include floodplain, meandering, deltaic, changing in section to lacustrine and fluvial.
Qh2 HOLOCENE AECIOL UNIT 2: Holocene sand capping dunes in dunefields.	CP1 CARBONIFEROUS-PERMIAN
Qh3 HOLOCENE LACUSTRINE/PLAYA UNIT 1: Holocene playa sediments.	CP2 BOORTHANNA FORMATION: Diamictite with shale intercalations in the basal unit, the upper unit with rhythmically bedded coarse and fine-grained sandstone. Subsequent deposition of glacial debris transported as mud flows.
Qa1 QUATERNARY ALLUVIAL/FLUVIAL UNIT 3: Quaternary low angle alluvial fan and plain sediments (undifferentiated). Based on Qa on WARRINA, CUDOMURRA.	NP1 NEOPROTEROZOIC
Qa2 QUATERNARY AECIOL UNIT 1: Quaternary dune/field sands.	NP2 MERRIEMAN BEDS: Sandstone, thick beds, quartzite to heterolithic, cross bedding, ripple marks, blue casts, mudcracks, graded bedding, shale, minor fossiliferous, grey green, rare dolomite and full dark red top.
Qa3 QUATERNARY AECIOL UNIT 3: Quaternary gypsiferous dune/field sands.	NP3 CUDOMURRA SUBGROUP: Silstone, dark grey, carbonaceous, lithic, argill. interbedded, micaceous, sandstone, heterolithic, lithic, cross bedded, shale casts, dolomite, ironstone, crystalline, crystalline, brown to yellow weathering, limestone, jurassic.
Qa4 SIMPSON SAND: Quaternary sand, dune sand, aeolian, clay pans.	NP4 DUFF CREEK BEDS: Shale, olive green, silty, argill. as thin interbeds, dolomite, pale grey and yellow, some dark grey carbonaceous shale, argill. sandstone.
Qa5 QUATERNARY REGOLITHICOLLOIDAL SEDIMENTS: Undifferentiated Quaternary colluvial/length sediments.	PA1 PALAEOPROTEROZOIC
Qa6 QUATERNARY REGOLITHICOLLOIDAL UNIT 1: Quaternary gypsiferous alluvium. Based on Qa on MURDOCKOPPE.	PA2 PEAKS METAMORPHICS UNIT 1: Paragneiss, schist, gneiss, quartzite, pegmatite, diorite. Based on Proterite in Peaks and Dawson Ranges groups map.
Qa7 QUATERNARY REGOLITHICOLLOIDAL UNIT 2: Quaternary gypsiferous alluvium. Based on Qa on DALHOUSIE.	PA3 PEAKS METAMORPHICS UNIT 4: Quartzite, rare epidote quartzite. Based on dotted unit within Proterite (L4) on Peaks and Dawson Ranges groups map.
Qa8 QUATERNARY REGOLITHICOLLOIDAL UNIT 3: Pleistocene red-brown structured clay with gypsiferous.	MS1 MISCELLANEOUS
Qa9 PEDRAIA FORMATION: Clay, red-brown, structured sandy, overlain by a fine matrix of dolomite clasts.	MS2 BRECKENRIDGE: Diagenetic breccia, typically with carbonate matrix, clasts mostly of Cambrian Group rocks, emplaced or remobilized during Devonian Orogeny.
Qa10 WONDELINA LIMESTONE: Limestone, pale brown arenaceous, pitted, bryozoan.	
Qa11 PLEISTOCENE OYPORETE: Undifferentiated Pleistocene gypsiferous.	
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Qa100 PLEISTOCENE OYPORETE: Undifferentiated Pleistocene gypsiferous.	

TOTAL MAGNETIC INTENSITY IMAGE



SOLID GEOLOGY INTERPRETATION



SCALE 1:250,000



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2020

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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.

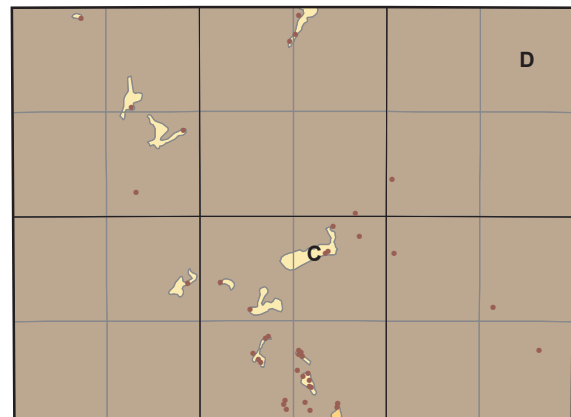
The lake boundaries displayed on this map may have been derived from geological interpretation and may not match lakes interpreted by topographic mapping authorities. Not all structures are represented on this particular map.

Mapping and Compilation by I.B. Freytag, B.Sc., G.R. Heath, B.Sc., and H. Wopshner, Ph.D.
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.

GEOLOGICAL RELIABILITY DIAGRAM



Oodnadatta sheet published 1987
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

SCALE 1:250,000

INDEX TO 1:100 000 SHEETS

Alameda 5843	Murumba 6043	Edarlenya 6143
Oodnadatta 5842	Algebuckina 6042	Woodmura 6142

INDEX TO ADJOINING 1:250 000 SHEETS

Magnetic Declination 2000
(Annual variation +1.4 minutes)

ABINGA	DALHOUSIE	POOLWANA
WINTINA	OODNADATTA	NOOLYANA
MURDOCKOPPE	WARRINA	LAKE EYRE



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

GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY INFERRED
GEOLOGICAL BOUNDARY POSITION ACCURATE
GEOLOGICAL BOUNDARY POSITION APPROXIMATE

MINING

DEPOSIT - NO MINING

HYDROGRAPHIC AND GEOMORPHIC FEATURES

LAKE
INTERMITTENT LAKE
MAJOR WATERCOURSE
MINOR WATERCOURSE
FLOODPLAIN
WATERHOLE
SPRING
BOHE
WATER TANK
SAND RIDGE

CULTURAL FEATURES

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

STRUCTURAL FEATURES

ORIGINALLY HORIZONTAL SEDIMENTARY BEDDING
TECTONIC FOLIATION

LINEAR STRUCTURES

ESCARPMENT
FAULT INFERRED
FAULT POSITION ACCURATE
FAULT POSITION APPROXIMATE
TREND-LINE

COMMODITIES

COAL
Coal