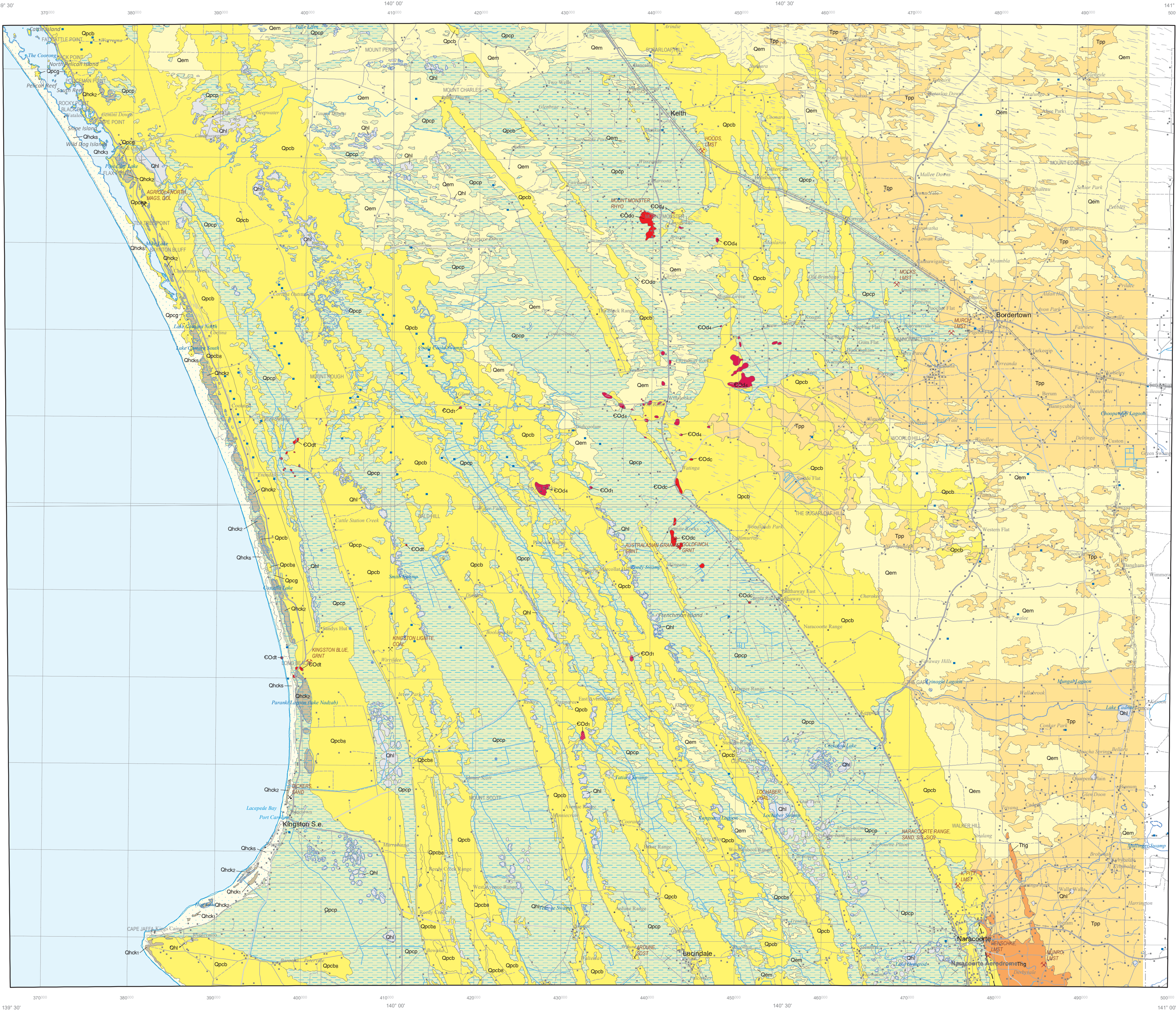


NARACOOORTE

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

SA GEOLOGICAL ATLAS SERIES SHEET SJ5402

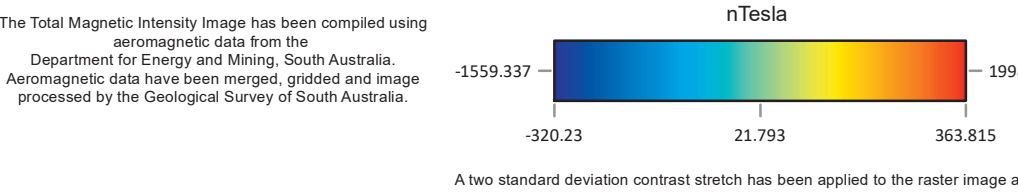
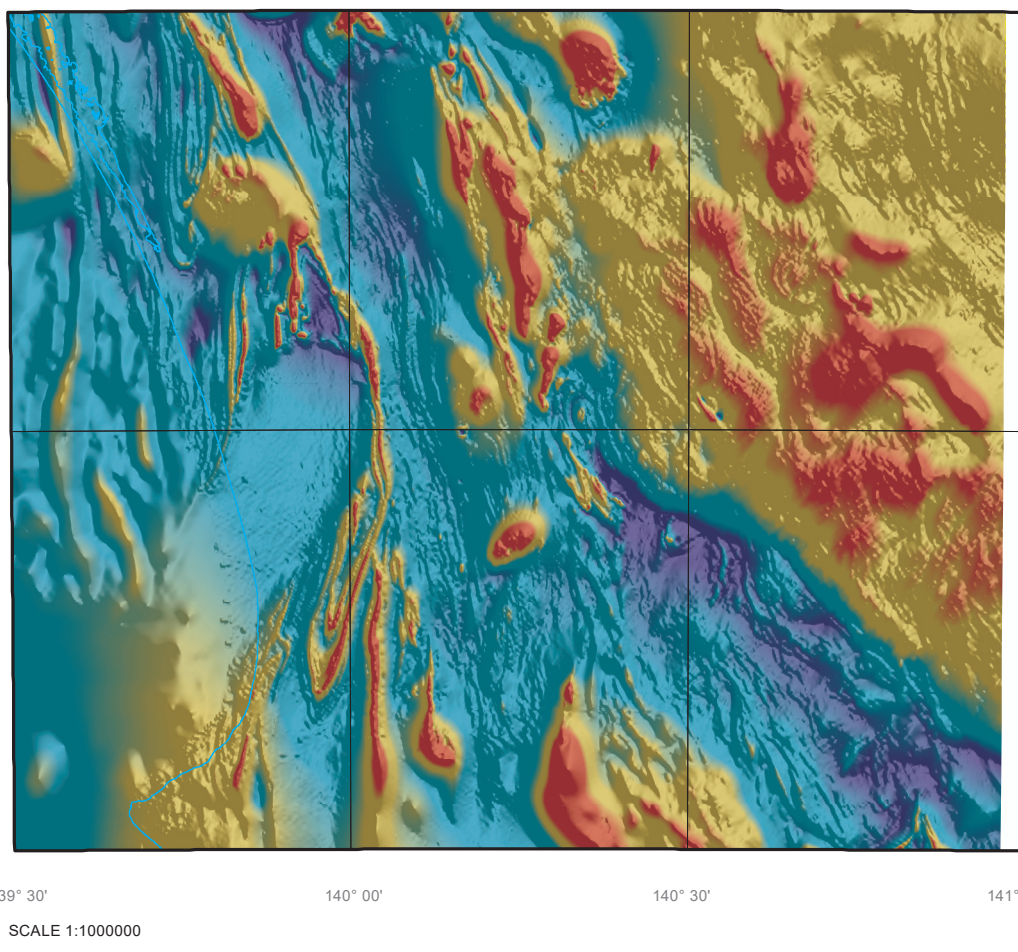
AUSTRALIA 1:250 000



REFERENCE

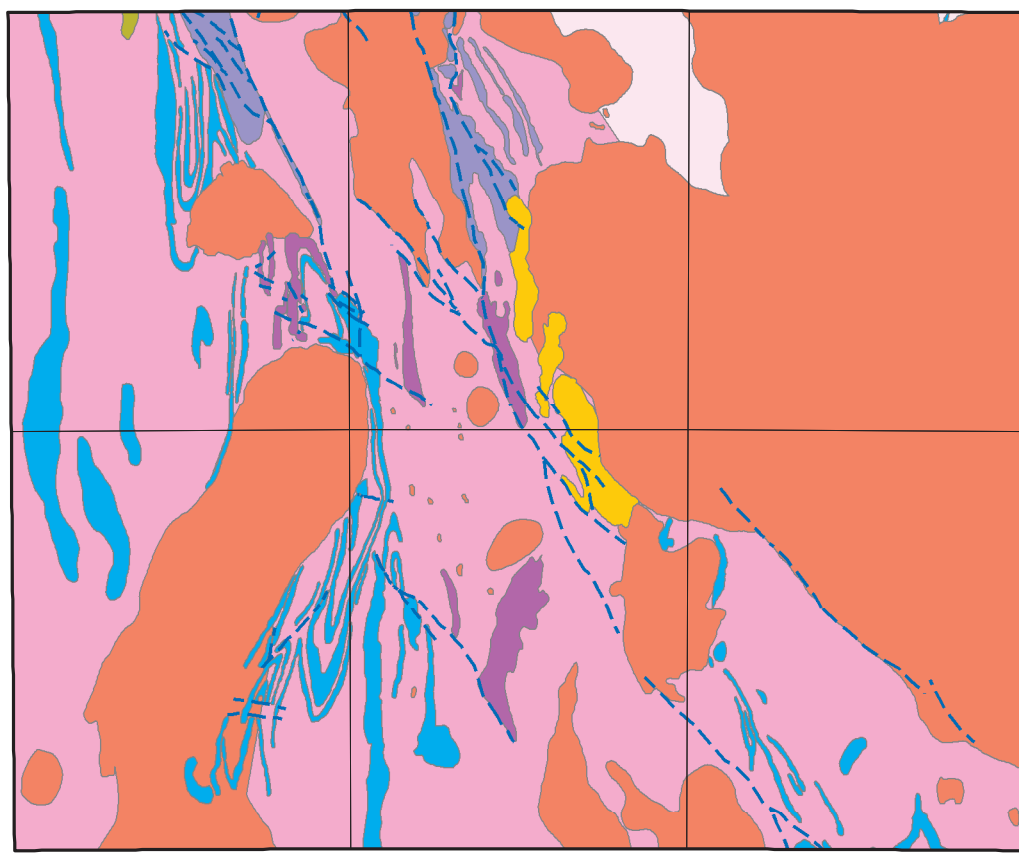
HOLOCENE	
Ohk	SANT KILDA FORMATION UNIT 1: Lagoonal, lacustrine sediments, shell beds. South-East geology map revision.
Ohk2	SANT KILDA FORMATION UNIT 2: Carbonate, algal sediments of covering, inferred later. South-East geology map revision.
Ohks	SEAMORPH SAND MEMBER: Unconsolidated white lacustrine; quartz-carbonate sand of modern beaches and transgressive dune fields.
Ohl	HOLOCENE LACUSTRINE/PLAIA SEDIMENTS: Unfossiliferated Holocene lacustrine/plaia sediments.
PLEISTOCENE-HOLOCENE	
Qem	MOLNEUX SAND: Sand, pale yellow, fine to medium-grained quartzites.
PLEISTOCENE	
Qpob	BRIDGEWATER FORMATION: Coastal barrier and shallow sub-tidal environments; lacustrine and aeolian cross-bedded lacustrine, palaeosol horizons, often capped by caliche.
Qpob2	BRIDGEWATER FORMATION UNIT 8: Young subunit with prominent beach ridges still present. As used on NARACOOORTE.
Qpob3	GLANVILLE FORMATION: Clay, modified, shelly, calcareous, shelled, coprolite. Geochron age 122 000±6 000 years BP on TL.
Qpob4	PADTHAWAY FORMATION: Mudstone, calcic and dolomitic, white, clay greenish; quartz sand, clayey. Lacustrine. Fresh-water fossils.
PLIOCENE	
Typ	PARILLA SAND MEMBER: Sand, fine to medium-grained, unfossiliferous, non-marine, crumbly, quartz-rich sandy clay laminae, lacustrine and fluvial deposits.
EOCENE-MIOCENE	
Thg	GAMBER LIMESTONE: Limestone, fossiliferous. Open marine shelf.
CAMBRIAN-ORDOVICIAN	
EOk	DELAERIAN IGNEOUS UNIT 1: Felsic volcanic rocks.
EOk2	DELAERIAN IGNEOUS UNIT 4: Unfossiliferated Delaerian felsic intrusives. Early 1- and 5-type, late 8-type, ~1514-480 Ma.
EOk3	MARCOLLAY GRANITE: Granite, green to olive-green, coarse-grained, green feldspars, minor quartz and amphibole. A-type, post-tectonic.
EOk4	MOUNT MONSTER PORPHYRY: Rhodite, porphyritic, quartz and labrador; sulphur phenocrysts, orange-brown or grey-green groundmass with sulphur phenocrysts. Fine banded, may be sealed ash flow or part of a-type, post-tectonic. Age 464±7 Ma (LUPs).
EOk5	TARATAP GRANODIORITE: Granodiorite, blue-grey, porphyritic; oligoclase, clinopyroxene/orthoclase; Comagmatic and post-tectonically modified. Blue and micaceous flow lineation. B-type, non-tectonic. 475-460 Ma (Rb-Sr, 7100).

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 Interpretive Crystalline Basement Geology Of The Central Cretaceous (Faulkner et al. 2003).
Interpreted Solid Geology Of The Central Cretaceous (Burt and Burt, 2003).
Mangrove Block, Central Australia, regional geology from interpretation of aeromagnetic data (Burt and Burt, 2003). Solid Geology (South Australia) (Corney, 2006).

Solid Geology	
EOk25	Delaerian igneous unit 25
EOk23	Delaerian igneous unit 23
EOk24	Delaerian igneous unit 24
EOk	Kamamboo Group
EOk4	Kamamboo Group unit 4
EOk3	Kamamboo Group unit 3
EOk9	Morlatana Supergroup unit 9
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 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

Gray numbered lines indicate the 10000 metre Map Grid
Transverse Mercator Projection, Geocentric Datum Australia, 2020.

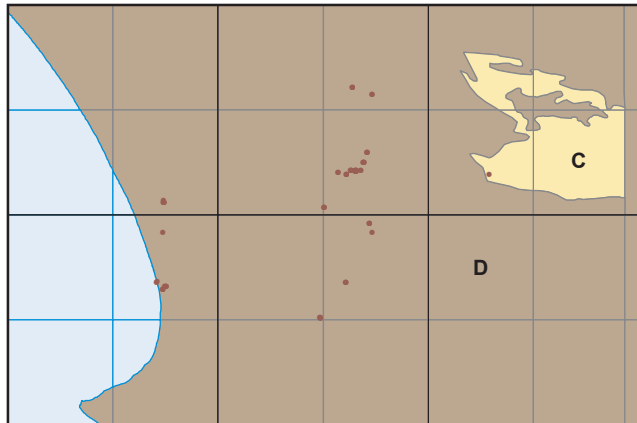
The lake boundaries displayed on this map may have been derived from geological interpretation and may not match lakes interpreted by topographic mapping authorities. Not all structures are represented on this particular map.

Mapping and Compilation by K.A. Rodrow, B.Sc (Hons), (Petroleum Exploration Division)
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



Naracoorte sheet published 1989
Geological Field Observations

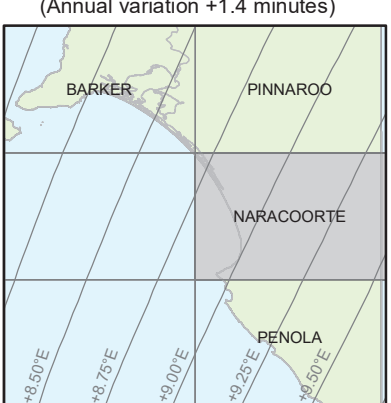
A: Detailed ground traverses
B: Image interpretation with limited ground traverses
C: Image interpretation with potentially some minor ground traverses
D: Image interpretation only

SCALE 1:200000

INDEX TO 1:100 000 SHEETS

Santo 6825	Keith 6925	Cannawarwa 7025
Kingston 6824	Lucindale 6924	Naracoorte 7024

INDEX TO ADJOINING 1:250 000 SHEETS



CULTURAL FEATURES

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

HYDROGRAPHIC AND GEOMORPHIC FEATURES

LAKE	—
INTERMITTENT LAKE	—
MAJOR WATERCOURSE	—
MINOR WATERCOURSE	—
SWAMP	—
WATER TANK	—
SAND RIDGE	—

MINING

PROSPECT	—
DEPOSIT - NO MINING	—
MINE - METALS AND INDUSTRIAL MINERALS	—
QUARRY - CONSTRUCTION MATERIALS (HARD ROCK)	—
PIT/LUT - CONSTRUCTION MATERIALS (SAND AND/OR CLAY)	—

GEOLOGICAL BOUNDARY

COASTLINE	—
GEOLOGICAL BOUNDARY POSITION ACCURATE	—
GEOLOGICAL BOUNDARY POSITION APPROXIMATE	—

LINEAR STRUCTURES

FAULT POSITION APPROXIMATE	—
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COMMODITIES

COAL	Coal
DOL	Dolomite
GRNT	Granite
LMST	Limestone
MAGS	Magnetite
RHYO	Rhyolite
SAND	Sand
SIST	Sandstone
SLIC	Silica
SIS	Silica sand