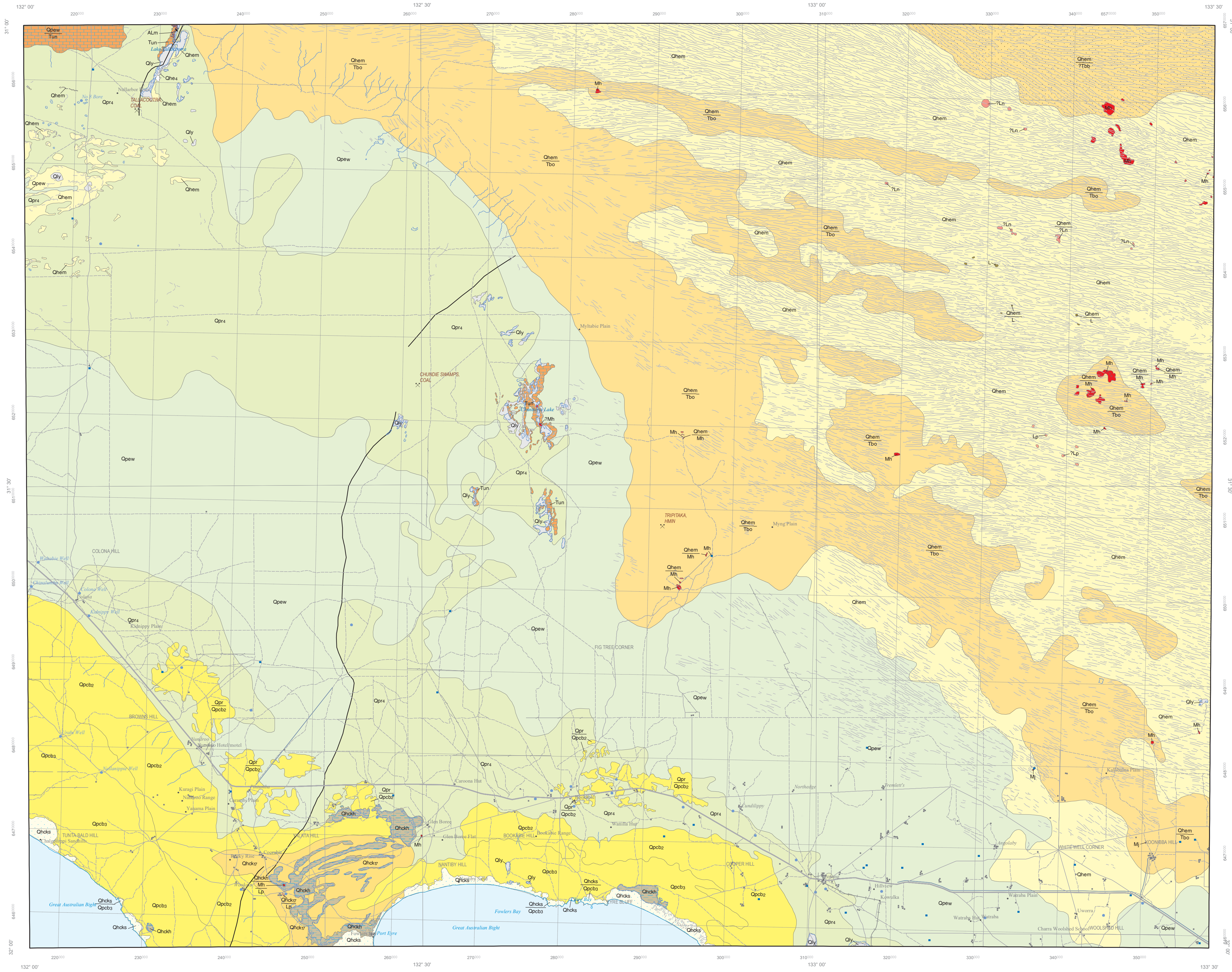


FOWLER

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

AUSTRALIA 1:250 000

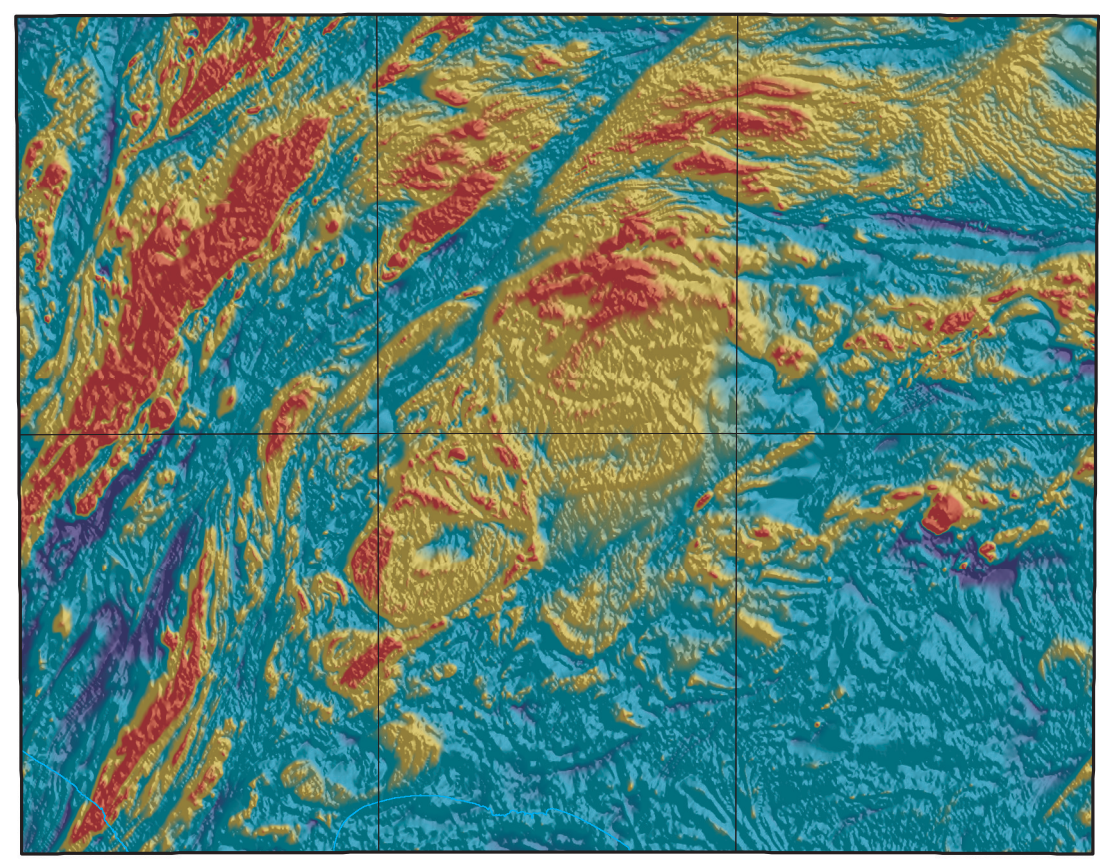
SA GEOLOGICAL ATLAS SERIES SHEET SH5313



REFERENCE

HOLOCENE	
Qm ₁	SAINT KILDA FORMATION UNIT 17: Beach ridges of older shorelines.
Qm ₂	LE HUNTE MEMBER: Gypsiferous lacustrine sediment of coastal saline lakes.
Qm ₃	SEAPHORE SAND MEMBER: Unconsolidated white to yellow, quartz-carbonate sand of modern beaches and transgressive dune fields.
Qm ₄	HOLOCENE AECUAN UNIT 4: Holocene gypsiferous dunes/lakes.
Qm	MODERN SAND: Sand, ashen, off-white and pale yellow, quartz-rich with carbonate pipes.
PLEISTOCENE-HOLOCENE	
Qy	YAMBA FORMATION: Clay, lacustrine, gypsiferous, gypsum-quartz sand. Dunes, playa lakes.
PLEISTOCENE	
Qp ₁	WABUNA FORMATION: Silt to fine-grained sand, orange-brown, calcareous, conglomeratic in part. Aelian.
Qp ₂	BRIDGEWATER FORMATION UNIT 3: Upper Member. Based on Qp ₁ on STREAKY BAY.
Qp ₃	BRIDGEWATER FORMATION UNIT 2: Lower Member. Based on Qp ₁ on STREAKY BAY.
Qp ₄	PLEISTOCENE REGOLITHOCOLLUVIAL SEDIMENTS: Unidentified Pleistocene colluvial/regolith sediments.
Qp ₅	PLEISTOCENE REGOLITHOCOLLUVIAL UNIT 4: Pleistocene gravel, clay, silt and sand with soft carbonate, overlying nodular/banded carbonate.
EOCENE-PLEISTOCENE	
Tb ₁	BARTON SAND: Sand, medium-grained, poorly cemented, beach-barrier and aeolian.
Tb ₂	GOLDEA SAND: Sand, medium-grained, quartz, well sorted, well rounded, rounded grains, trace quantities of heavy minerals. Aeolian dunes.
EOCENE-MIOCENE	
Tm	MULLARBOR LIMESTONE: Limestone, bioclastic, micritic. Subdol. platform above for weather worn base.
MESOPROTEROZOIC	
M ₁	MUNJELLA SUITE: Leucogranite, quartz to biotite-garnet-muscovite-biotite-garnet, coarse-grained, 1-type, peraluminous. Deformation varies from none to mylonitic. U-Pb age 101-107 Ma.
M ₂	MUNJELLA SUITE: Granite, syenite, quartz monzonite, granodiorite, monzonite, coarse, megacrystic to megacrystic, bi-modal, granophyric, microporphyritic or porphyritic. Unfolded to locally strongly deformed. Minor melt to ultramylonite rocks. 114-type, 1100-1105 Ma.
PALAEOPROTEROZOIC	
L	PALAEOPROTEROZOIC ROCKS: Unidentified Palaeoproterozoic rocks.
L ₁	ST PETER SUITE: Gneiss, monzogranite, granodiorite, diorite, amphibolite, diorite, hornfels, gneiss. Conglomerate suite with magma mingling and magmatic layering. Cad-shale. 1-type, 1633-1638 Ma.
L ₂	TUMKILLA SUITE: Orthogneiss, granite to quartz syenite, biotite granite, plagioclase and granodiorite, micro-syenite, micro-amphibolite, mylonite, mylonite and aplite dykes. Alkali-calcic, 1-type, 1700-1705 Ma.
ARCHAEO-PALAEOPROTEROZOIC	
AL ₁	MALGATHING COMPLEX: Pangraiss, amonaceous and aluminous iron formation, gneiss, granite, biotite and micro-amphibolite, quartzite and ironstone rocks. Granite to amphibolite facies. Proterine 2580-2460 Ma.

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



Solid Geology	
M ₁	Munjella Suite
M ₂	Munjella Suite
M ₃	Munjella Suite
M ₄	Munjella Suite
M ₅	Munjella Suite
M ₆	Munjella Suite
M ₇	Munjella Suite
M ₈	Munjella Suite
M ₉	Munjella Suite
M ₁₀	Munjella Suite
M ₁₁	Munjella Suite
M ₁₂	Munjella Suite
M ₁₃	Munjella Suite
M ₁₄	Munjella Suite
M ₁₅	Munjella Suite
M ₁₆	Munjella Suite
M ₁₇	Munjella Suite
M ₁₈	Munjella Suite
M ₁₉	Munjella Suite
M ₂₀	Munjella Suite
M ₂₁	Munjella Suite
M ₂₂	Munjella Suite
M ₂₃	Munjella Suite
M ₂₄	Munjella Suite
M ₂₅	Munjella Suite
M ₂₆	Munjella Suite
M ₂₇	Munjella Suite
M ₂₈	Munjella Suite
M ₂₉	Munjella Suite
M ₃₀	Munjella Suite
M ₃₁	Munjella Suite
M ₃₂	Munjella Suite
M ₃₃	Munjella Suite
M ₃₄	Munjella Suite
M ₃₅	Munjella Suite
M ₃₆	Munjella Suite
M ₃₇	Munjella Suite
M ₃₈	Munjella Suite
M ₃₉	Munjella Suite
M ₄₀	Munjella Suite
M ₄₁	Munjella Suite
M ₄₂	Munjella Suite
M ₄₃	Munjella Suite
M ₄₄	Munjella Suite
M ₄₅	Munjella Suite
M ₄₆	Munjella Suite
M ₄₇	Munjella Suite
M ₄₈	Munjella Suite
M ₄₉	Munjella Suite
M ₅₀	Munjella Suite
M ₅₁	Munjella Suite
M ₅₂	Munjella Suite
M ₅₃	Munjella Suite
M ₅₄	Munjella Suite
M ₅₅	Munjella Suite
M ₅₆	Munjella Suite
M ₅₇	Munjella Suite
M ₅₈	Munjella Suite
M ₅₉	Munjella Suite
M ₆₀	Munjella Suite
M ₆₁	Munjella Suite
M ₆₂	Munjella Suite
M ₆₃	Munjella Suite
M ₆₄	Munjella Suite
M ₆₅	Munjella Suite
M ₆₆	Munjella Suite
M ₆₇	Munjella Suite
M ₆₈	Munjella Suite
M ₆₉	Munjella Suite
M ₇₀	Munjella Suite
M ₇₁	Munjella Suite
M ₇₂	Munjella Suite
M ₇₃	Munjella Suite
M ₇₄	Munjella Suite
M ₇₅	Munjella Suite
M ₇₆	Munjella Suite
M ₇₇	Munjella Suite
M ₇₈	Munjella Suite
M ₇₉	Munjella Suite
M ₈₀	Munjella Suite
M ₈₁	Munjella Suite
M ₈₂	Munjella Suite
M ₈₃	Munjella Suite
M ₈₄	Munjella Suite
M ₈₅	Munjella Suite
M ₈₆	Munjella Suite
M ₈₇	Munjella Suite
M ₈₈	Munjella Suite
M ₈₉	Munjella Suite
M ₉₀	Munjella Suite
M ₉₁	Munjella Suite
M ₉₂	Munjella Suite
M ₉₃	Munjella Suite
M ₉₄	Munjella Suite
M ₉₅	Munjella Suite
M ₉₆	Munjella Suite
M ₉₇	Munjella Suite
M ₉₈	Munjella Suite
M ₉₉	Munjella Suite
M ₁₀₀	Munjella Suite

Solid Geology - Linear Structure	
Fault position accurate	—
Fault position approximate	- - -
Mylonite zone	
Fault reverse triangles upthrown side	▲

SCALE 1:250,000



Any person purchasing this map may reproduce it for their own use or that of their staff, but not for any other purpose except with the written permission of the Chief Executive, Department for Energy and Mining SA, GPO Box 320, Adelaide, South Australia, 5001.

CROWN COPYRIGHT RESERVED
Department for Energy and Mining SA, 2020

Topographic detail based on TOPO 250K GEOCAT (source scale 1:250 000) supplied by Geoscience Australia - National Mapping Division, ACT. The relationship between this data and DSM 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.

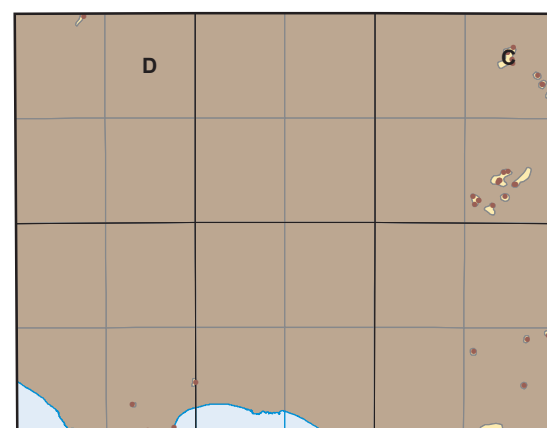
Compiled by R.A. Dutch, Ph.D., and C.B.E. Kraft, Ph.D., Geological Mapping by R.A. Dutch, Ph.D., C.B.E. Kraft, Ph.D., and J.B. Finner, B.Sc.(Hons) with contributions by A.J. Fabris, B.Sc.(Hons).

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



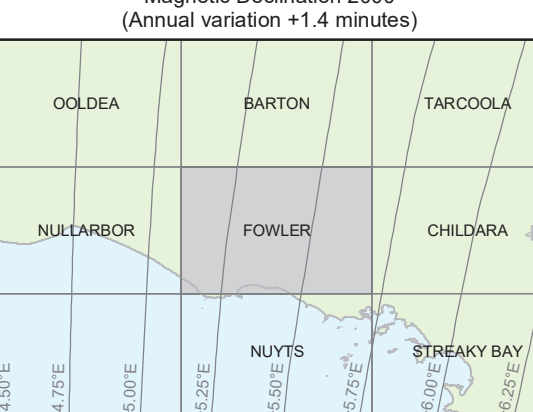
Fowler sheet published 1975
Geological Field Observations
A. Detailed ground traverses
B. Image interpretation with limited ground traverses
C. Image interpretation with potentially some minor ground traverses
D. Image interpretation only

SCALE 1:200000

INDEX TO 1:100 000 SHEETS

Tallacoota 5335	Midgrie 5435	Poonindra 5535
Coorabie 5334	Bookable 5434	Penong 5534

INDEX TO ADJOINING 1:250 000 SHEETS



GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY POSITION ACCURATE
GEOLOGICAL BOUNDARY POSITION APPROXIMATE

LINEAR STRUCTURES

FAULT POSITION ACCURATE
FAULT POSITION APPROXIMATE

MINING

DEPOSIT - NO MINING
DEPOSIT - MINING

STRUCTURAL FEATURES

TECTONIC FOLIATION - VERTICAL
TECTONIC FOLIATION - OTHER
TECTONIC FOLIATION - OTHER
TECTONIC FOLIATION - OTHER

CULTURAL FEATURES

PRINCIPAL ROAD
MINOR ROADS
VEHICULAR TRACKS
OPERATIONAL RAILWAY
FENCE
WATER PIPELINE
IDENTIFIED POINT
BUILDING
LANDING GROUND

HYDROGRAPHIC AND GEOMORPHIC FEATURES

INTERMITTENT LAKE
MINOR WATERCOURSE
SWAMP
BORE
WATER TANK
SAND RIDGE

COMMODITIES

COAL
MIN
Coal
Heavy Minerals