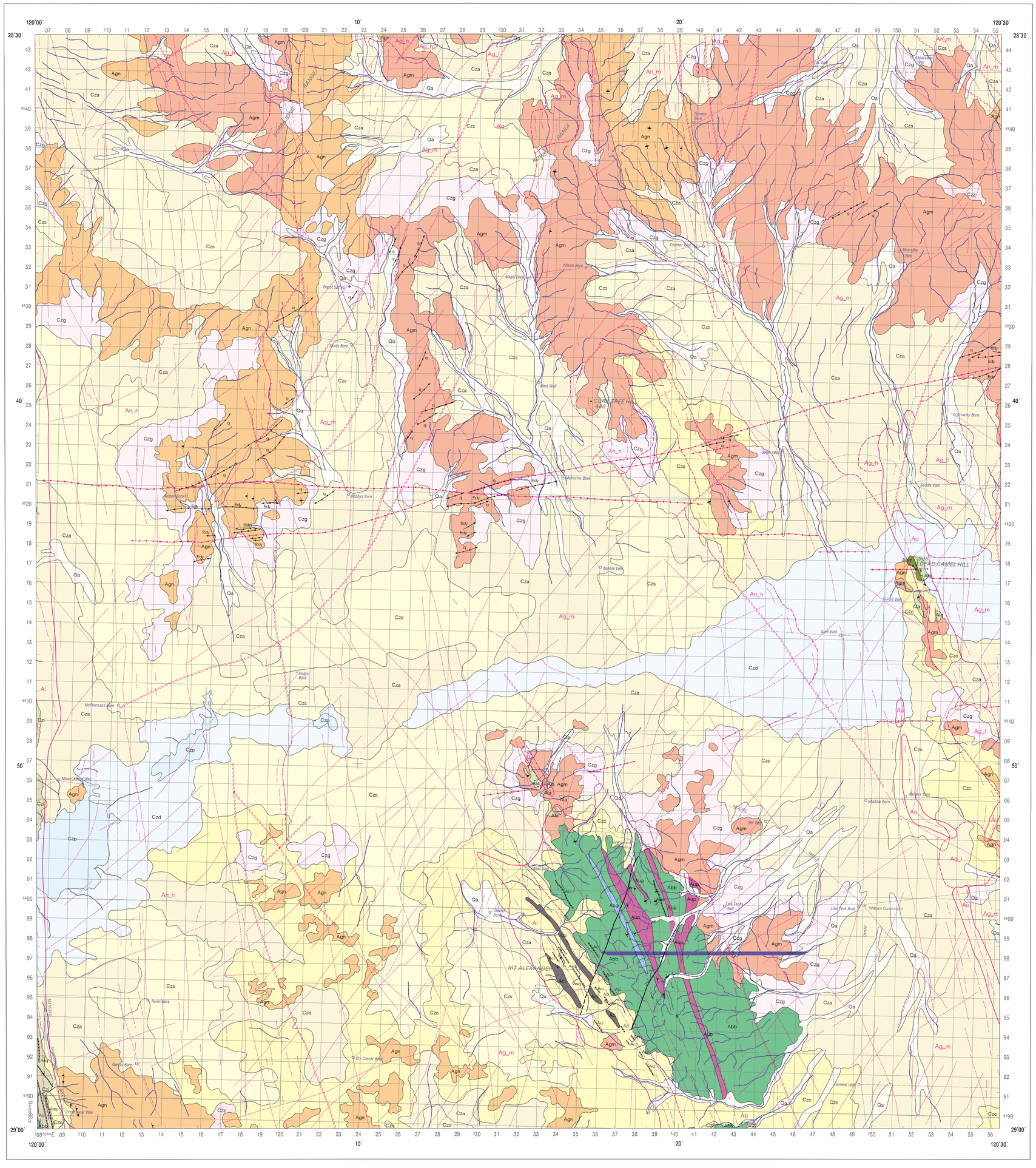
# MOUNT ALEXANDER

AUSTRALIA 1:100 000 GEOLOGICAL SERIES | WESTERN AUSTRALIA | SHEET 2940




CAINOZOIC

| | |
|---|---|
| Qa | Clay, silt, sand and gravel in and near active stream channels; alluvial |
| Cza | Clay, silt and sand; pebbly in places; colluvial, distal |
| Czc | Gravel, talus, sand; colluvial, proximal |
| Czd | Quartz and gypsum dunes with minor silt and clay adjacent to playas (dunes dominant) |
| Czf | Pebbly colluvium and alluvium derived from laterite |
| Czg | Colluvial sand and gravel derived from quartzofeldspathic rock |
| Czi | Detritus and talus adjacent to ridges of banded iron-formation |
| Czp | Evaporites, sand and clay in playas |
| Czs | Sand plain |
| Czz | Silcrete over granitoid |

PROTEROZOIC

| | |
|---|---|
| Edy | Mafic dykes |
| q | Quartz, quartzolite |

ARCHAEAN

| | |
|---|---|
| Agm | Biotite monzogranite |
| Agn | Strongly foliated granitoid with local weak and/or incipient layering (banding) +/- mafic lenses |
| Aci | Banded iron formation |
| Asq | Quartzite, quartz metasiltstone |
| Ass | Sandstone and/or siltstone, metamorphosed |
| Aog | Gabbro, massive, equigranular or porphyritic; undivided |
| Abb | Metabasalt +/- metadolerite |
| Abm | Hi-magnesium metabasalt with spinifex texture |
| Ala | Amphibolite |
| Aup | Peridotite |

## AEROMAGNETIC INTERPRETATION

| | |
|---|---|
| Ag_h | Granitoid, high magnetisation |
| Ag_m | Granitoid, medium magnetisation |
| Ag_l | Granitoid, low magnetisation |
| An_h | Felsic gneiss and granite, high magnetisation |
| An_m | Felsic gneiss and granite, medium magnetisation |
| Ai | Greenstone with abundant iron formation |
| Ab | Greenstone belt, mainly mafic rocks |
| Au | Greenstone with abundant ultramafic rocks |

- Well defined boundary
- Poorly defined boundary
- Fault
- Normally-magnetised dyke or vein
- Reverse-polarised dyke or vein
- Trend of banding
- Lineament
- Geological boundary
- Marker bed
- Fault, position accurate
- Fault, position approximate
- Dyke or vein
- Strike and dip of strata
- Strike and dip of strata. Dot indicates proved direction of facing
- Strike and dip of foliation
- Vertical foliation
- Strike and dip of cleavage
- Vertical cleavage
- Plunge of mineral elongation
- Vertical platy alignment
- Minor road
- Vehicle track
- Building
- River or creek
- WH Waterhole
- Bore
- Well
- 210 Elevation in metres, approximate

## MAP LOCALITY

## INDEX TO ADJOINING SHEETS

1:250 000 maps shown in blue

| | | | | |
|---|---|---|---|---|
| WIRCUBUNNA 2041 | ATLEY 2741 | EVERETT CREEK 2841 | MULLIGAN'S 2941 | PILGANNA 3041 | WEERO 3141 |
| YOUANMI | | | LEONORA | |
| YOUANMI 2040 | MAYS NOCKS 2740 | BECHA MOSON 2840 | MOUNT ALEXANDER 2940 | WILBAH 3040 | LEONORA 3140 |
| SH50-04 | | | SH51-01 | | |
| MALGAR 2039 | BARLEE 2739 | MARRINON 2839 | MOUNT MASON 2939 | BALLARD 3039 | MELITA 3139 |
| BARLEE | | | MENZIES | | |
| SH50-08 | | | SH51-05 | | |
| ROSS 2938 | JOHNSTON RANGE 2738 | LAKE DILES 2838 | MULLINE 2938 | INVERNIA 3038 | MENZIES 3138 |

## UNIVERSAL GRID REFERENCE

GRID ZONE DESIGNATION 51J

100 000 METRE SQUARE IDENTIFICATION

TJ

TH

IGNORE the SMALLER figures of any grid number; these are for finding the full co-ordinates. Use ONLY the LARGER figures of the grid number, for example:

30

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METRES:

SAMPLE POINT: • CORK TREE HILL

1 Read letters identifying 100 000 metres square in which the point lies: TJ

2 Locate first vertical grid line to LEFT of point and read LARGE figures labelling the line either in the top or bottom margin, or on the line itself: 34

3 Estimate tenths from grid line to point: 9

4 Locate first HORIZONTAL grid line BELOW point and read LARGE figures labelling the line in either the left or right margin, or on the line itself: 25

5 Estimate tenths from grid line to point: 8

SAMPLE REFERENCE: TJ349258

If reporting beyond 18° in any direction, prefix Grid Zone Designation, as: 51JTJ349258

Grey numbered lines are 1000 metre intervals of the Australian Map Grid, Zone 51
Grid values are shown in full only at the south west corner of the map.

GN

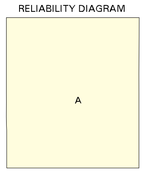
TN MN

Grid/Magnetic angle -0.80°

Average Grid Convergence -1.32°

Magnetic north is correct for 1995 and moves easterly by 0.1° per year

## RELIABILITY DIAGRAM




A - Detailed reconnaissance; numerous traverses and airphoto interpretation

SCALE 1:100 000

1 0 1 2 3 4 5 6 7 8 9 10

Kilometres

UNIVERSAL TRANSVERSE MERCATOR PROJECTION

Latitude of Origin: 0° Longitude of Origin: 123°

## FIELD OBSERVATION LOCALITIES

## DIGITAL DATA

Map data are stored digitally in both Intergraph design file format (IGDS) and topologically structured ARC/INFO Rev7.0 export format. These formats may be suitable for transfer to other digital systems. Detailed site data are stored in the Oracle NGMA Field Database. Map information can be purchased from AGSO as hardcopy plots and as digital datasets. Information on formats, release conditions, and costs are available from AGSO Sales Centre

WARNING: Colours will fade with prolonged exposure to light

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Geology 1992 by M.Duggan AGSO.
Compiled 1995 by M.Duggan AGSO.
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Cartography by T.M.Brennan, Spatial Information and Mapping Services, AGSO.
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and the Geological Survey of Western Australia, Perth, WA.

AGSO AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

NGMA
PRODUCT OF THE NATIONAL GEOSCIENCE MAPPING ACCORD

# MOUNT ALEXANDER

SHEET 2940

PRELIMINARY EDITION

VERSION 2

SUBJECT TO REVISION

November 1996