EDJUDINA

AUSTRALIA 1 : 250 000 GEOLOGICAL SERIES — **GEOLOGICAL SURVEY OF WESTERN AUSTRALIA** — **SHEET SH 51-6**

SYMBOLS

Geological boundary
- exposed
- concealed, interpreted from aeromagnetic data

Fault
- exposed
- concealed
- concealed, interpreted from aeromagnetic data

Fold, showing axial trace and generalized plunge direction
- anticline, exposed, concealed
- syncline, exposed, concealed

Minor fold, showing direction and plunge of axis
- unspecified

Bedding, showing strike and dip
- inclined
- vertical

Igneous layering, showing strike and dip
- inclined
- vertical

Way-up indicator
- igneous layering
- pillow structure
- sedimentary structure

Metamorphic foliation, showing strike and dip
- inclined
- vertical

Cleavage, showing strike and dip
- inclined

Mineral lineation, showing trend and plunge direction
- inclined
- horizontal

Intersection lineation, showing trend and plunge direction
- inclined
- horizontal

Joint, fracture, or vein, showing strike and dip
- inclined
- vertical

Aeromagnetic lineament

Formed road
Track
Landing ground
Townsite — Yerilla
Homestead — Menangina
Locality — Pass Hollow
Building, yard
Microwave repeater station
National park boundary
Horizontal control, major, minor
Breakaway
Sand dune

Watercourse, ephemeral; pool
Gnamma hole, rockhole, waterhole — Gn, Rr, Wrl
Swamp
Soak — Sk
Pipeline
Bore, well — B, W
Windpump
Dam, tank — D, T
Abandoned, position doubtful — (dbd), (PD)

Mineral field boundary
Mineral field district boundary
Mining centre — YARRI
Mining locality — Broken Hill
Major mine — Edjudina
Mine (gold, unless otherwise indicated)
Major opencut
Opencut
Quarry
Alluvial workings
Prospect
Battery or treatment plant; operating, abandoned
Mineral exploration drillhole, showing subsurface data — Gr Au
Mineral occurrence
- Copper — Cu
- Gemstone — Gs
- Gravel — Gr
- Magnesite — Ms
- Nickel — Ni

SHEET INDEX

1:100 000 maps shown in black
Published 1:100 000 maps used in compilation
1:250 000 maps shown in brown
Project maps used in compilation shown in green
See current GSWA map catalogue for full range of published products

The lines indicate magnetic declination, 1980
– marks declination is east and correction must be subtracted from compass bearing to give true bearing
– marks declination is west and correction must be added/set from compass bearing to give true bearing
Annual change is 0' westerly

Compiled by S. F. Chen 1997

Geology by S. F. Chen 1997, and other GSWA and AGSO maps (see sheet index)

Edited by F. Apostopoulos and G. Loon

Cartography by S. Collopy and B. Williams

Topography from the Department of Land Administration Sheet SH 51-6 with modifications from geological field survey

Published by the Geological Survey of Western Australia. Copies available from the Information Centre, Department of Minerals and Energy, 100 Plain Street, East Perth, WA, 6004. Phone (08) 9222 3459. Fax (08) 9222 3444

This map is also available in digital form

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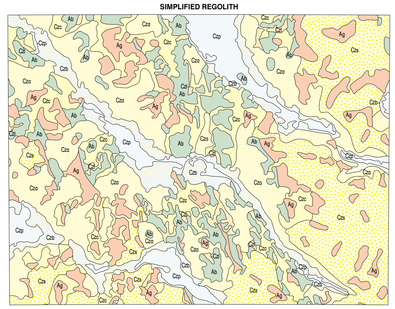
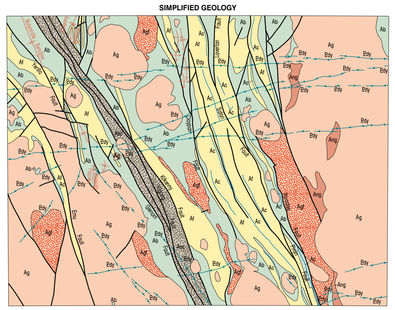
SIMPLIFIED REGOLITH



- Czb Playa margin deposit
- Czp Playa deposit
- Czs Sheetwash deposit
- Czs Sandplain deposit
- Cz Colluvium
- Czf Ferruginous duricrust
- Ag Archaean granitoid rock and associated alluvium
- Ab Archaean greenstone rock

SCALE 1:1 000 000 — Kilometres

SIMPLIFIED GEOLOGY



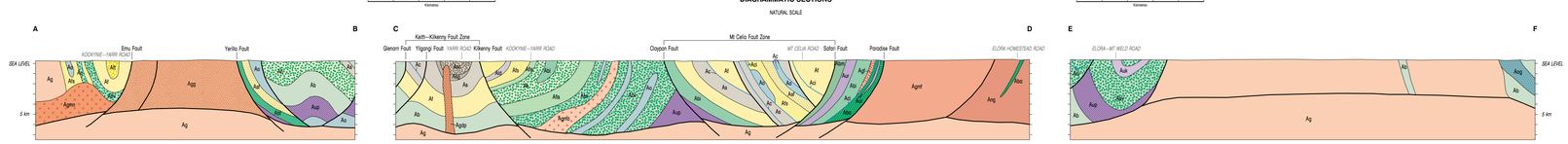
- Etby / Mafic and ultramafic dykes — Etby—Pinjin Dyke
- Ag / Agt — Granitoid rock dominant; Foliated granitoid rock
- Agg — Granitoid gneiss
- Asc / Ac — Asc: Polymictic conglomerate and other sedimentary rocks; metamorphosed. Ac: Banded iron formation and chert; metamorphosed
- At — Metamorphosed felsic volcanic, volcaniclastic, and sedimentary rocks dominant
- Ab — Metamorphosed mafic and ultramafic rocks dominant; includes layered intrusions

YILGARN CRATON

SCALE 1:1 000 000 — Kilometres

DIAGRAMMATIC SECTIONS

NATURAL SCALE



REFERENCE

PHANEROZOIC — CAINOZOIC — QUATERNARY

- Qa — Alluvium—clay, silt, sand, and gravel in channels and floodplains
- Czb, Czd, Czp
  - Czb Ephemeral lake and dune deposits—evaporite, clay, silt, and sand in dunes, drainage basins, claypans, and channels surrounding major saline lakes
  - Czd Dune deposits—sand, silt, and gypsum as stabilized dunes adjacent to playa lakes
  - Czp Playa deposits—saline and gypsiferous evaporites, clay, silt, and sand in playa lakes
- Czs, Czs
  - Czs Sheetwash deposits—clay, silt, and sand as extensive fans; locally ferruginous
  - Czs Sandplain deposits—unconsolidated yellow sand; minor silt and clay; includes stabilized dunes
- Czc, Czf, Czg
  - Czc Colluvium—gravel, sand, and silt as proximal sheetwash and talus; locally ferruginous
  - Czf Ferruginous gravel and reworked laterite
  - Czg Sand over granitoid rock—quartz-kaolin/pisolithic sand; includes scattered granitoid outcrop
- Czf, Czu, Czc
  - Czf Ferruginous duricrust, massive and nubbly
  - Czu Silcrete caprock over ultramafic rock; locally includes chalcedony and chrysoprase
  - Czc Silcrete; minor laterite and ferruginous gravel

PALAEOZOIC — PERMIAN

- Ps — Sandstone and quartzose pebble conglomerate

PROTEROZOIC

- Etby / — Mafic and ultramafic dykes; Etby—Pinjin Dyke
- g / p / q — Veins and dykes: g—granitoid, p—granitoid pegmatite, q—quartz

ARCHAEAN

- Ag, Aggu, Agbu, Agpto, Agnto, Agt, Agr, Agg, Aggn, Agn, Agnfo, Agmt, Agmh, Agnm, Agpo, Agk
  - Ag Granitoid rock, undivided; includes altered and weathered rock
  - Aggu **McADLIFFE WELL SYENITE:** coarse-grained, K-feldspar megacrysts
  - Agbu **BULLA ROCKS MONZOGRANITE:** biotite monzogranite, with hornblende and biotite on the margin
  - Agpto **DAIRY MONZOGRANITE:** biotite monzogranite
  - Agpto Monzodiorite, porphyritic, with plagioclase phenocrysts, K-feldspar megacrysts, and minor quartz phenocrysts
  - Agt Strongly foliated granitoid rock
  - Agnto **FRIDAY MONZOGRANITE:** biotite monzogranite
  - Agg, Aggn Granodiorite, tonalite, and diorite; with (biotite) hornblendeg
  - Aggn **GALLALEY MONZOGRANITE:** biotite monzogranite; locally foliated
  - Agn Biotite monzogranite, commonly with K-feldspar megacrysts
  - Agmz **YARRI MONZOGRANITE:** biotite monzogranite; pervasively foliated
  - Agmt Strongly foliated biotite monzogranite
  - Agmh Hornblende–biotite monzogranite
  - Agmm **MENANGINA MONZOGRANITE:** biotite monzogranite; cut by pegmatite and aplite dykes
  - Agnm **JUNGLE MONZOGRANITE:** biotite monzogranite
  - Aggo **PORPHYRY QUARTZ MONZONITE** with biotite and prominent K-feldspar phenocrysts
  - Agp Porphyritic granitoid rock
  - Agk Syenite and quartz syenite, with minor monzodiorite
- Ang — Banded granitoid gneiss; locally migmatitic; schistosity commonly folded
- Ast — Quartz–aluminosilicate rock, with andalusite and/or kyanite
- As, Asc, Asf, Asg, Ash, Ac, Acl
  - As Sedimentary rock, undivided; includes felsic volcanic and volcaniclastic rock; metamorphosed
  - Asc Polymictic conglomerate with subordinate sandstone; massive to strongly foliated; metamorphosed
  - Asf Volcaniclastic and sedimentary rock, foliated; includes quartz-kaolin/pisolithic schist; locally contains mafic schist
  - Asg Greywacke, with pebbly layers and minor siltstone; metamorphosed
  - Ash Shale, siltstone, and chert; metamorphosed; locally ferruginous; slate and fine-grained sericite schist
  - Ac Banded chert and silicified slate; locally ferruginous; metamorphosed
  - Acl Banded iron-formation; finely bedded; metamorphosed
- Af, Afa, Afs, Aft, Afv
  - Af Felsic volcanic and volcaniclastic rock, undivided; metamorphosed; includes deeply weathered and kaolinized rock
  - Afa Intermediate volcanic and volcaniclastic rock, mainly andesite; locally feldspar-hornblende-phyric; metamorphosed
  - Afs Hornblende–quartz–feldspar schist, derived from andesitic rocks; locally carbonated
  - Aft Quartz–feldspar–mica schist, locally mylonitic
  - Afv Felsic volcanic rock; locally feldspar(–quartz)-phyric; includes volcaniclastic rock; metamorphosed
- Ao, Aod, Aog, Aogb, Aogl
  - Ao Dolerite and gabbro, undivided; minor basalt; metamorphosed
  - Aod Dolerite and quartz dolerite; medium-grained; metamorphosed
  - Aog Gabbro; medium- to coarse-grained; minor leucogabbro; metamorphosed
  - Aogb **KILKENNY GABBRO:** tholeiitic gabbro sill; metamorphosed
  - Aogl Leucogabbro; metamorphosed
- Ab, Abc, Abt, Abt, Abh, Abm, Abmt, Abp, Abv
  - Ab Metamorphosed basalt; includes minor metagabbro and mafic schist; generally deeply weathered
  - Abp Amphibolite and hornfels; includes basaltic schist
  - Abc Basalt, carbonated; metamorphosed
  - Abt Strongly foliated, fine-grained mafic rock; metamorphosed; includes amphibolite and mafic hornfels; local epidote alteration
  - Abt Basaltic andesite; locally feldspar-phyric; metamorphosed
  - Abh High-Mg basalt; includes komatiitic and pyroxene spinifex-textured basalt; metamorphosed
  - Abmt Strongly foliated high-Mg basalt; metamorphosed
  - Abp Basalt, with medium- to coarse-grained feldspar phenocrysts; includes minor feldspar-phyric gabbro; metamorphosed
  - Abv Amygdaloidal or vesicular basalt, mainly tholeiitic; massive to foliated; metamorphosed
- Au, Auk, Aup, Aur, Aux
  - Au Ultramafic rock, undivided; metamorphosed
  - Auk Komatiite; relict olivine spinifex texture; metamorphosed
  - Aup Peridotite; commonly serpentinized; relict olivine cumulate texture; metamorphosed; includes talc–chlorite schist
  - Aur Tremolite–chlorite schist and talc–chlorite schist
  - Aux Pyroxenite; metamorphosed

GOVERNMENT OF WESTERN AUSTRALIA
HON. NORMAN MOORE, M.L.C.
MINISTER FOR MINES

DEPARTMENT OF MINERALS AND ENERGY
L. C. RAWORD, DIRECTOR GENERAL

AGSO AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION
NGMA
PRODUCT OF THE NATIONAL GEOSCIENCE MAPPING ACCORD

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA
DAVID BLIGHT, ACTING DIRECTOR

SCALE 1: 250 000

5000 Metres 0 5 10 15 20 25 30 Kilometres

TRANSVERSE MERCATOR PROJECTION
HORIZONTAL DATUM: AUSTRALIAN GEODETIC DATUM 1984
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM
Grid lines indicate 20 000 metre interval of the Australia Map Grid Zone 51

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