

RELICT REGIME

- R1 Ferruginous siltstones, granules, and nodules
- R2 Iron-rich duricrust forming remnant land surfaces
- R3 Silcrete, often weakly ferruginized; includes areas of silicified caliche and karst
- R4 Quartz-rich sand and silt overlying R1-R3 materials; may be locally reworked

EROSIONAL REGIME

- E1 Mottled zone and sporadic, generally poorly exposed except in upland areas with isolated drab
- E2g Granitoid rock outcrop of saprock and bedrock, and areas of outcrop with locally derived sand and sandy clay. Coarse (boundary) lag may be present adjacent to prominent ridges
- E2v Mottled rock outcrop of saprock and bedrock, and areas of outcrop with locally derived sand and sandy clay. Coarse (boundary) lag may be present adjacent to prominent ridges
- E2s Sedimentary rock outcrop of saprock and bedrock, and areas of outcrop with locally derived sand and sandy clay. Coarse (boundary) lag may be present adjacent to prominent ridges
- E2m Metamorphic rock outcrop of saprock and bedrock, and areas of outcrop with locally derived sand and sandy clay. Coarse (boundary) lag may be present adjacent to prominent ridges
- E2c Prominent ridges, possibly quartz-filled shear zones
- E4g Granitoid rock. Lag of locally derived ferruginous and/or lithic fragments in a sandy clay to sand-rich matrix, associated with actively eroding outcrops
- E4v Mottled rock. Lag of locally derived ferruginous and/or lithic fragments in a sandy clay to sand-rich matrix, associated with actively eroding outcrops
- E4s Sedimentary rock. Lag of locally derived ferruginous and/or lithic fragments in a sandy clay to sand-rich matrix, associated with actively eroding outcrops
- E4m Metamorphic rock. Lag of locally derived ferruginous and/or lithic fragments in a sandy clay to sand-rich matrix, associated with actively eroding outcrops

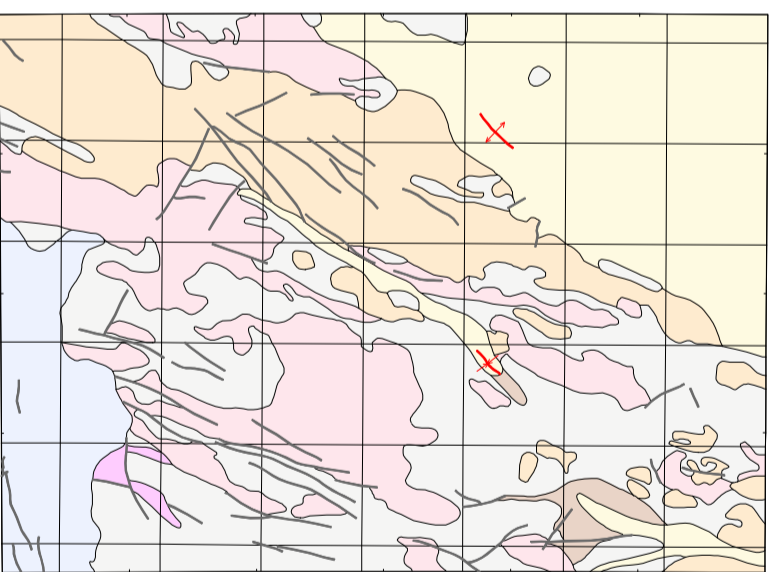
DEPOSITIONAL REGIME

- DOMINANTLY COLLUVIAL
  - DC1 Medium to coarse-grained rock debris in sandy clay-rich colluvial matrix, generally in upland areas
  - DC1g As for DC1 derived mainly from granitoid rock
  - DC1s As for DC1 derived mainly from sedimentary rock
  - DC1m As for DC1 derived mainly from metamorphic rock
  - DC1f As for DC1 derived from various sources; strongly ferruginized clasts of various composition
  - DC2 Consolidated colluvium; reddish brown and poorly bedded; proximal to outcrops
  - DC2f Fine to medium-grained detrital (clasts 4 - 25 mm) matrix of little origin, in sandy clay colluvial matrix, generally topographically lower than DC1
  - DC2g As for DC2 derived mainly from granitoid rock
  - DC2s As for DC2 derived mainly from sedimentary rock
  - DC2m As for DC2 derived mainly from metamorphic rock
  - DC2f As for DC2 derived from various sources; strongly ferruginized clasts of various composition
  - DC2h Consolidated colluvium; reddish brown and poorly bedded; moderately distal to outcrops
  - DC3 Sandstone dominated colluvium or sheetwash; merges into alluvial plane (DAS)
  - DC3f Non-fine ferruginous detritus (mostly <10mm), possibly magnetic, in red sandy clay. May include basaltic grains; position comparable with DC3
  - DC3h Consolidated colluvium (hardpan); reddish brown and poorly bedded; distal to outcrops
- DOMINANTLY ALLUVIAL
  - D4 Gravely sand and sandy clay of active alluvial channels with mixtures of ferruginous and variably altered lithic fragments
  - D4s Sand or clay rich siltstone and colluvium on broad drainage floors, including overbank deposits and terraces. Includes non-saline claypanes; silcrete fragments
  - D4c Colonic; includes karst and silicified caliche
- DOMINANTLY EOLIAN
  - D8 Sand, siltstone in origin. May form dunes to thin sheets. May overlie sheetwash, soil or bedrock

SYMBOLS

- Regolith boundary
- Minor road
- Track
- Breakaway
- Watercourse, ephemeral
- Homestead
- Locality
- Mining centre
- Mine, not being worked
- Opencut
- Opencut, not being worked
- Prospect
- Mineral occurrence
- Barite, Beryl
- Bismuth minerals
- Copper, Dravite, Fluorite
- Gold, Gemstones
- Lead, Lithium
- Mica, Molybdenum
- Rare Earth Elements
- Scheelite
- Tantalite-columbite, Tin
- Uranium, Zinc

GEOLOGICAL INTERPRETATION



Geological Interpretation after S. J. Williams et al. (1983)



SHEET INDEX

WINNING POOL SF 50-13	EDMUND SF 50-14	TUREE CREEK SF 50-15
KENEDY RANGE SG 50-1	MOUNT PHILLIPS SG 50-2	MOUNT EGBERTON SG 50-3
WOORAMEL SG 50-6	GLENBURGH SG 50-8	ROBINSON RANGE SG 50-7

REGOLITH MATERIALS

REGOLITH GEOCHEMISTRY SERIES

MOUNT PHILLIPS

SHEET SG 50-2

FIRST EDITION 1997

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WARNING: Inks are water soluble and will fade with prolonged exposure to light

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This map is also available in digital form

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



DEPARTMENT OF MINERALS AND ENERGY  
L.C. RANFORD, ACTING DIRECTOR GENERAL

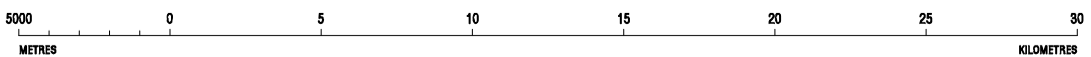


GOVERNMENT OF WESTERN AUSTRALIA  
HON. NORMAN MOORE, M.L.C.  
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GEOLOGICAL SURVEY OF  
WESTERN AUSTRALIA  
PETRO GUJ, DIRECTOR

SCALE 1:250 000



TRANSVERSE MERCATOR PROJECTION  
Grid lines indicate 20 000 metre interval of the Australian Map Grid Zone 50

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