

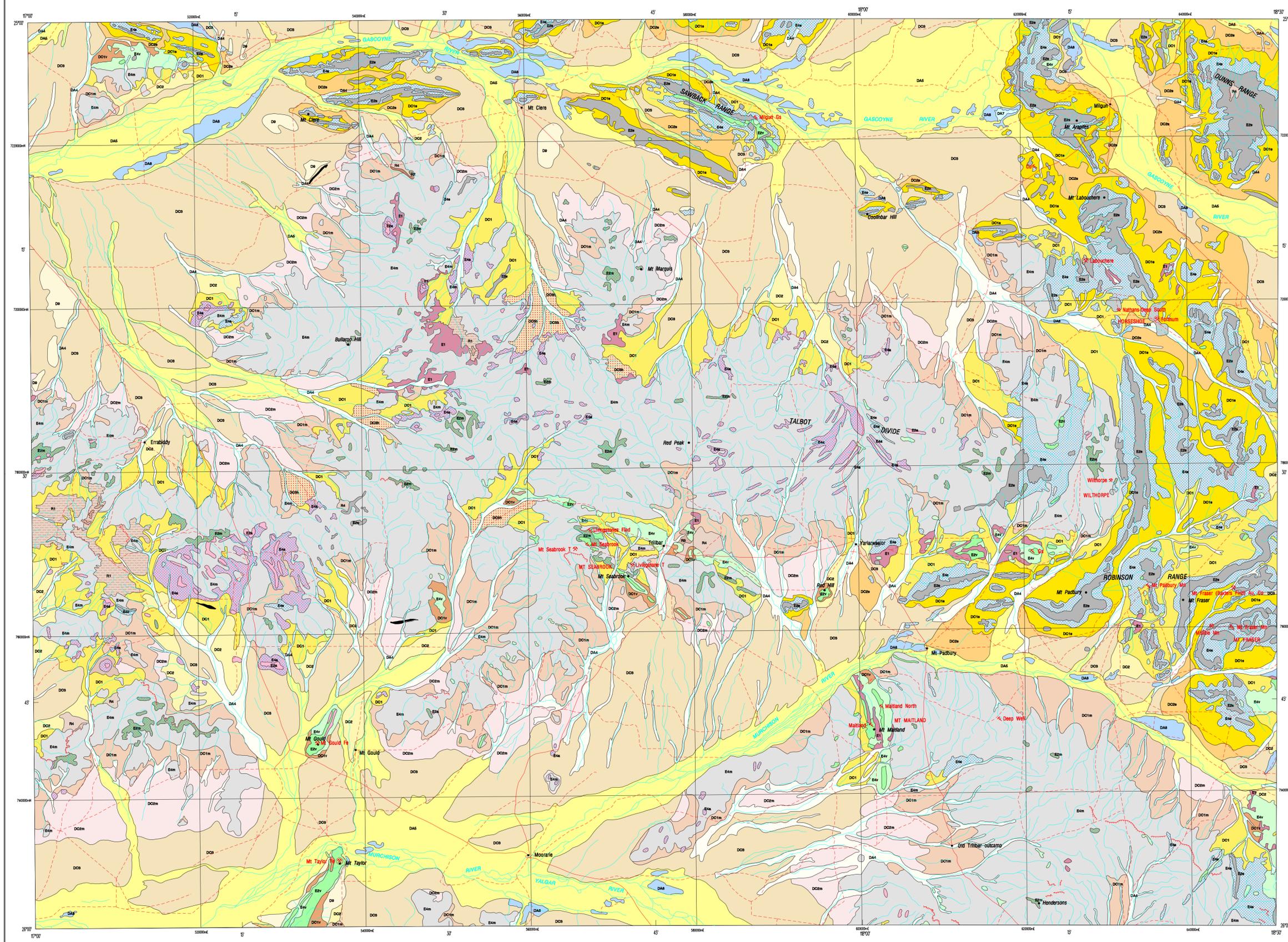
ROBINSON RANGE

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

SHEET SG 50-7

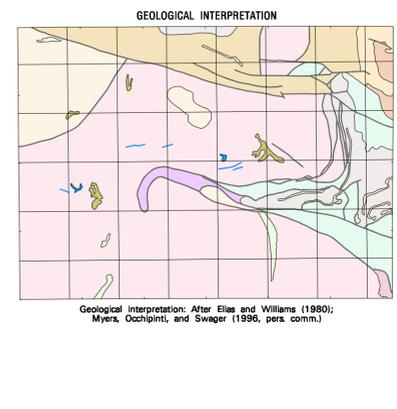
REFERENCE

1:250 000 REGOLITH MATERIALS SERIES



- RELICT REGIME**
- R1 Ferruginous siltstones and nodules
 - R2 Iron-rich duricrust forming permanent land surfaces
 - R3 Stone (commonly weakly ferruginized) and silicified rock
 - R4 Quartz-rich sand overlying presumed or known R1-R3 materials
- EROSIONAL REGIME**
- E1 Mottled zone and saprolite
 - E2v Outcrop of saprock and bedrock areas of outcrop with locally derived sandy clay; coarse (boundary) lag may be present adjacent to prominent ridges derived from gneissosomes and other mafic rocks
 - E2s As E2v but derived from sedimentary rocks
 - E2m As E2v but derived from metamorphic rocks, predominantly granitic gneiss
 - E2a As E2v but derived from amphibolite
 - E2v Lag of locally derived ferruginous and/or silicified fragments; bedrock in a sandy clay matrix associated with actively eroding outcrops; derived from gneissosomes and other mafic rocks
 - E4s As E4v but derived from sedimentary rocks
 - E4m As E4v but derived from metamorphic rocks, predominantly granitic gneiss
 - E4a As E4v but derived from amphibolite
- DEPOSITIONAL REGIME**
- DOMINANTLY COLLUVIAL**
- DC1 Medium- to coarse-grained detritus, mainly of feldspar and ferruginous silic clasts (less than 25 mm) in colluvium with a sand or sandy clay matrix
 - DC1v DC1 derived from gneissosomes
 - DC1s DC1 derived from sedimentary rocks
 - DC1m DC1 derived from metamorphic rocks, predominantly granitic gneiss
 - DC1a DC1 derived from amphibolite
 - DC2 Fine- to medium-grained detritus (clasts 4-25 mm) mainly of feldspar and ferruginous silic clasts, in a red sandy clay colloidal matrix, or quartz in a sandy clay matrix
 - DC2s DC2 derived mainly from sedimentary rocks
 - DC2m DC2 derived mainly from metamorphic rocks, predominantly granitic gneiss
 - DC3 Sand- and clay-dominated colluvium or sheetwash (v- falloway; merges into alluvial plains (DA6))
 - DC3s Consolidated colluvium (hardpan) with a ferruginous or silica-rich cement; reddish brown and poorly bedded
- DOMINANTLY ALLUVIAL**
- DA4 Gravely sands and sandy clays of active alluvial channels with nodules of siliceous, non-siliceous, and various siliceous fragments
 - DA6 Sand- or clay-rich alluvium and colluvium on broad drainage floors, including massive clayey deposits and terraces; includes non-saline clays; calcareous fragments
 - DA7 Saline clays and sandy clays of plays lakes; commonly lacking vegetation
 - DA8 Extensive and continuous calcareous outcrop in broad drainage floors (valley calcareous)
 - DA9 Sandplain, well in origin; forms dunes and thin sheets

- SYMBOLS**
- Regolith boundary
 - Breakaway
 - Minor road
 - Track
 - Watercourse, ephemeral
 - Homestead
 - Locality
 - Mining centre
 - Major mine
 - Mine
 - Minor mine
 - Prospect
 - Mineral occurrence
- REGOLITH MATERIALS**
- Au Gold
 - Cu Copper
 - Fe Iron ore
 - Gs Variscite
 - Mn Manganese
 - T Talc



- Bangemall Group**
- Quartz arenite; minor wacke, siltstone, conglomerate, shale, and dolomite
 - Shale and siltstone; minor chert, claystone, dolomite, and sandstone
 - Chert, arenite, and siltstone; minor dolomite and shale
 - Granite
- Padbury Group**
- Wacke, siltstone, conglomerate, shale, quartz arenite, and calcareous sedimentary rocks
 - Granular and banded iron-formation, and hercynitic shale
- Bryah Group**
- Sedimentary rocks, mafic and ultramafic volcanic and intrusive rocks, and banded iron-formation
- Yerrida Group**
- Quartz arenite, shale, and quartz-pebble conglomerate
- Trilbar Complex**
- Mafic to ultramafic volcanic and plutonic rocks
- ARCHAIC**
- Volcanic and sedimentary rocks (includes greenschists)
 - Granite and granitic gneiss
 - Banded iron-formation
 - Amphibolite
- Geological boundary**
- Major fault or shear



SHEET INDEX

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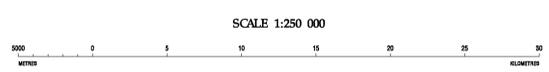
Edited by D. Ferdinando and G. Loan
 Cartography by G. Jose and D. Ledbrook
 Topography from Australian Surveying and Land Information Group Sheet SG 50-7 and roads modified from geological field survey (1988)
 This map is also available in digital form
 Published by the Geological Survey of Western 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 (09) 222 3459, Fax (09) 222 3444



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

Compiled by J.J. Bradley and A.J. Sanders (GSWA)

Field observations by J.J. Bradley (GSWA), P. Penna, E. Spartali, and G. Tolland (Geochem Australia), 1995

The recommended reference for this map is: BRADLEY, J.J., and SANDERS, A.J., 1997, Robinson Range, W.A. sheet SG 50-7, Western Australia Geological Survey, 1:250 000 Regolith Materials Series, Plate 1

ROBINSON RANGE

SHEET SG 50-7
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