



REFERENCE

RELICT REGIME

| | |
|----|--|
| R2 | Iron-rich laterite outcrop |
| R3 | Siltstone and siltified granitoid rock |
| R4 | Sands overlying presumed or known lateritic material |

EROSIONAL REGIME

| | |
|------|--|
| E1 | Exposed mottled zone and saprolite |
| E2g | Granitoid and granitoid gneiss saprock, bedrock, and ferruginous bedrock |
| E2ve | Volcano-sedimentary greenstone saprock, bedrock, and ferruginous bedrock |
| E4g | Lag of lithic detritus and/or talus in a sand-rich matrix associated with actively eroding outcrop/bedrock; mainly confined to granitoid terranes |
| E4ve | Lag of locally derived ferruginous and lithic detritus in a sandy clay matrix associated with actively eroding outcrop/bedrock; mainly confined to greenstone terranes |

DEPOSITIONAL REGIME

DOMINANTLY COLLUVIAL

| | |
|------|---|
| DC1 | Medium to coarse detritus, mainly of lithic or ferruginized lithic clasts (most >25 mm) in colluvium with a sand or sandy clay matrix |
| DC2 | Fine to medium detritus of 2 types: ferruginized lithic clasts (most 4-25 mm) in colluvium with a sandy clay matrix (greenstone terranes); quartz, bedrock and granitoid clasts in sandy colluvium (granitoid terranes) |
| DC3 | Sand and clay (with or without talus/clast clasts) dominated colluvium or sheetwash; merges into alluvial plains (DAS) |
| DC3f | Detritus, mainly non-lithic ferruginous (most clasts <10 mm); may be magnetic in red sandy clay; includes significant crushed gravel |

DOMINANTLY ALLUVIAL

| | |
|-----|--|
| DA4 | Gravelly sands and sandy clays of active alluvial channels with mixtures of laterite, non-laterite, and variably altered lithic clasts |
| DA5 | Sand or clay-rich alluvium on or adjacent to broad drainage floors with negligible detritus; calcareous nodules common |
| DA6 | Gypsiferous alluvial and eolian sediments adjacent to playa lakes; usually vegetated |
| DA7 | Saline clays and sandy clays of playa lakes; usually unvegetated |
| DA8 | Extensive and continuous calcareous outcrop in broad drainage floors (valley calcareous) |

| | | |
|----------|----------|------|
| CS10 (1) | CS10 (2) | AS10 |
| LT2 | R1 | DS42 |
| LT3 | | |
| -- | -- | DS90 |
| ES3 | D6 | WR22 |
| LS4 | | |

| | | |
|---------|---------|-------|
| SP1 | E3 | WR11 |
| | E4 | |
| BR3 | ES-ES9c | GWR12 |
| | | |
| BR3 | ES-ES9c | VWR12 |
| | | |
| SS6 | -- | GWR21 |
| | | |
| MT-MB9c | E1 | VWR21 |
| LA4 | | |

| | | |
|-------|----|-------|
| M3 | D4 | gSC26 |
| CS3 | | vSC26 |
| | | |
| M2 | D8 | gSC26 |
| CS1 | | vSC26 |
| | | |
| CS1-2 | D4 | SC25a |
| SS6 | | SC25b |
| | | |
| M2 | D4 | SC25a |
| CS1 | | SC25b |

| | | |
|-----|----|------|
| AS1 | D1 | SA01 |
| AS2 | | |
| | | |
| AS4 | D5 | SA02 |
| | | |
| AS6 | D7 | SE00 |
| D8 | | |
| | | |
| ES1 | D6 | SL00 |
| ES2 | | |
| -- | -- | DS20 |

CS10 (1) regolith codes: R.A. Asard et al., 1989
CS10 (2) regolith codes: M.A. Craig and R.A. Asard, 1989
AS10 regolith codes: C. Paine et al., 1981

SYMBOLS

- Regolith boundary
- Principal road
- Minor road
- Track
- Railway
- Breakaway
- Watercourse, ephemeral
- Homestead
- Locality
- Mining locality
- Mining area, made ground

- Weebo
- Mount Ross
- LAWLERS

GEOLOGICAL INTERPRETATION

Geological interpretation after A.H. Hickman (in prep.), AGSO (1993), and T.J. Griffin and W.K. Witt (pers. comm.)

INDEX TO ADJOINING SHEETS

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TRANSVERSE MERCATOR PROJECTION
Grid lines indicate 20 000 metre interval of the Australian Map Grid Zone 51

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This map complements Leonora Regolith-landforms map: CHURCHWARD, H.M., and CRAIG, M.A., 1993, Leonora, W.A. (prelim. ed.): Australian Geological Survey Organisation, 1:250 000 Regolith-landforms Series

REGOLITH MATERIALS SERIES
LEONORA
SHEET SH 51-1
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WARNING: Inks are water soluble and will fade with prolonged exposure to light

PLATE 1