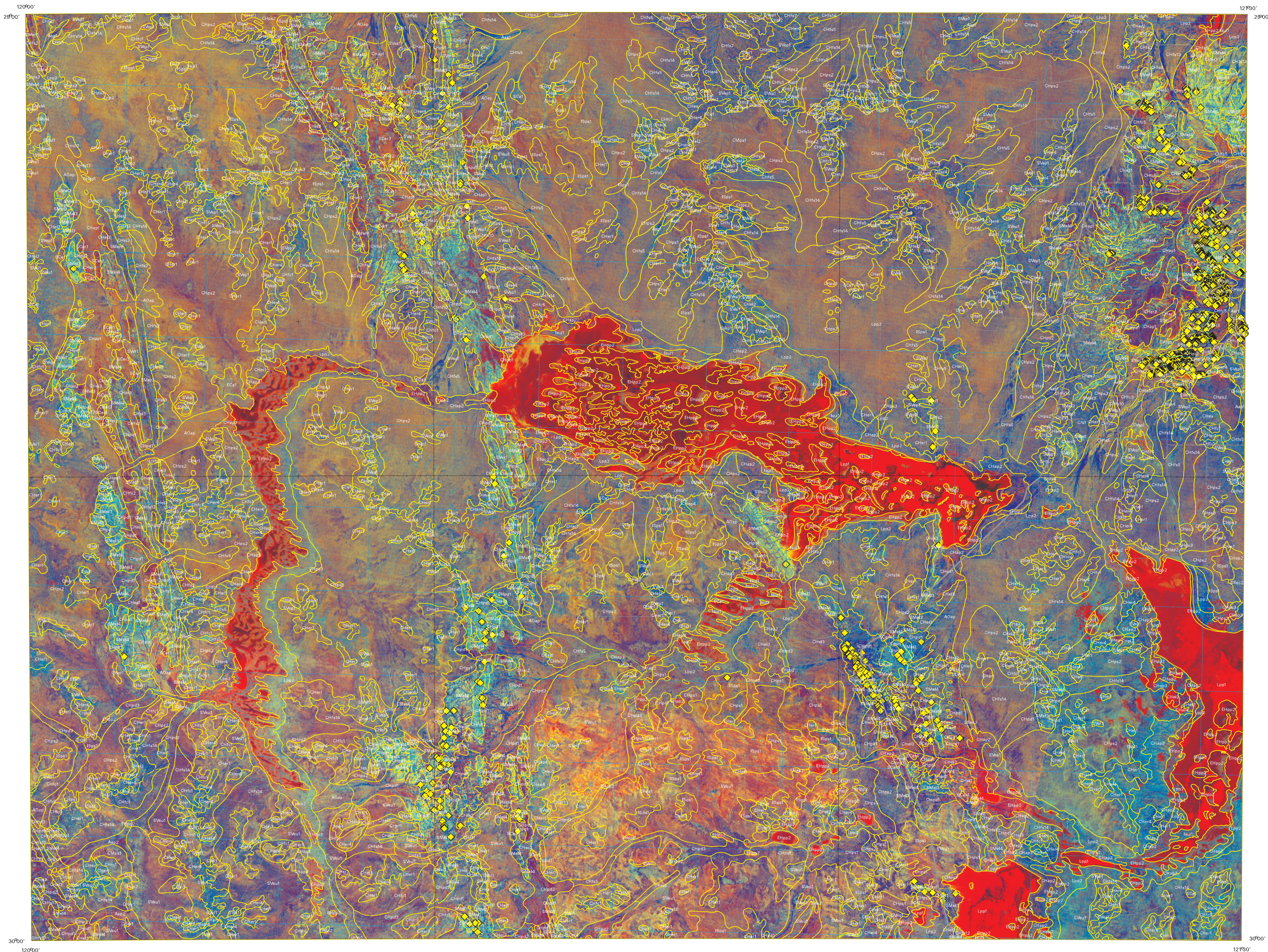


AUSTRALIA 1:250 000

MENZIES

ENHANCED THEMATIC MAPPER IMAGE OF MENZIES WITH REGOLITH POLYGONS

SHEET SH51-5



Transported regolith

Alluvial sediments

Alluvial sediments
Sediments consisting of coarse deposits, some broad channel alluvial deposits up to 5m thick. Hardpan extends within 2m of the surface, some fine granitic quartz-hellitic regolith, some granitic saprolite as substrate.

Au1
Sediments consisting mainly of silt and clay deposits with minor bedrock clots. This clay often caps the substrate and is 2-3m thick. Some granitic quartz-hellitic regolith is beneath the surface, but is not visible. Fine sand and gravel are common.

Au2
Alluvium consisting of coarse materials and occurring in terraces associated with ancient alluvial channels. Contains fine sand and red earth developed in alluvium which become stony at about 0.5m and give way to hardpan at the

Overbank deposits
Alluvial clay loam and light clays with some bands and lenses of coarse stream-bed deposits. A few lenses of caliche with extensive hardpan development at 0.5m. Sediments are primarily derived from greenstone outcrops and are continuous with the alluvial portions of river flow in some places.

Aeolian sand
Large-scale dunes, some as single ridges or small sets, developed along the edge of saline lake environments and adjacent to caliche zone systems at the edge of saline water bodies. The dunes are on broad valley plains along the drainage line. Dune crests and toes are common.

Aeolian sand
Aeolian sand derived from colluvial sands originating from granitic substrate, some lateritic grains and detritus exposed as a substrate on broad crests.

Colluvial sediments

Colluvial sediments
Clay loam textured silt flow deposit up to 1.5m thick on weathered bed rock; some coarse sandy and gravelly beds beneath hardpan of about 0.5m. Ferruginous saprolite like fragments, and quartz-hellitic fragments are present.

Mass movements
Extensive deep colluvial clayey sand some ferruginous greenstone, some lateritic detritus on crests, extensive saprolite as deep substrate, some aeolian sand some hardpan within 2m of the surface.

Sheet flow deposit
Clay loam to light clayey silt flow deposit on weathered bed rock, some coarse sandy and gravelly beds beneath hardpan of about 0.5m. Ferruginous saprolite like fragments, and quartz-hellitic fragments are present.

Clay loam textured silt flow deposit
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Evaporite

Calcrete
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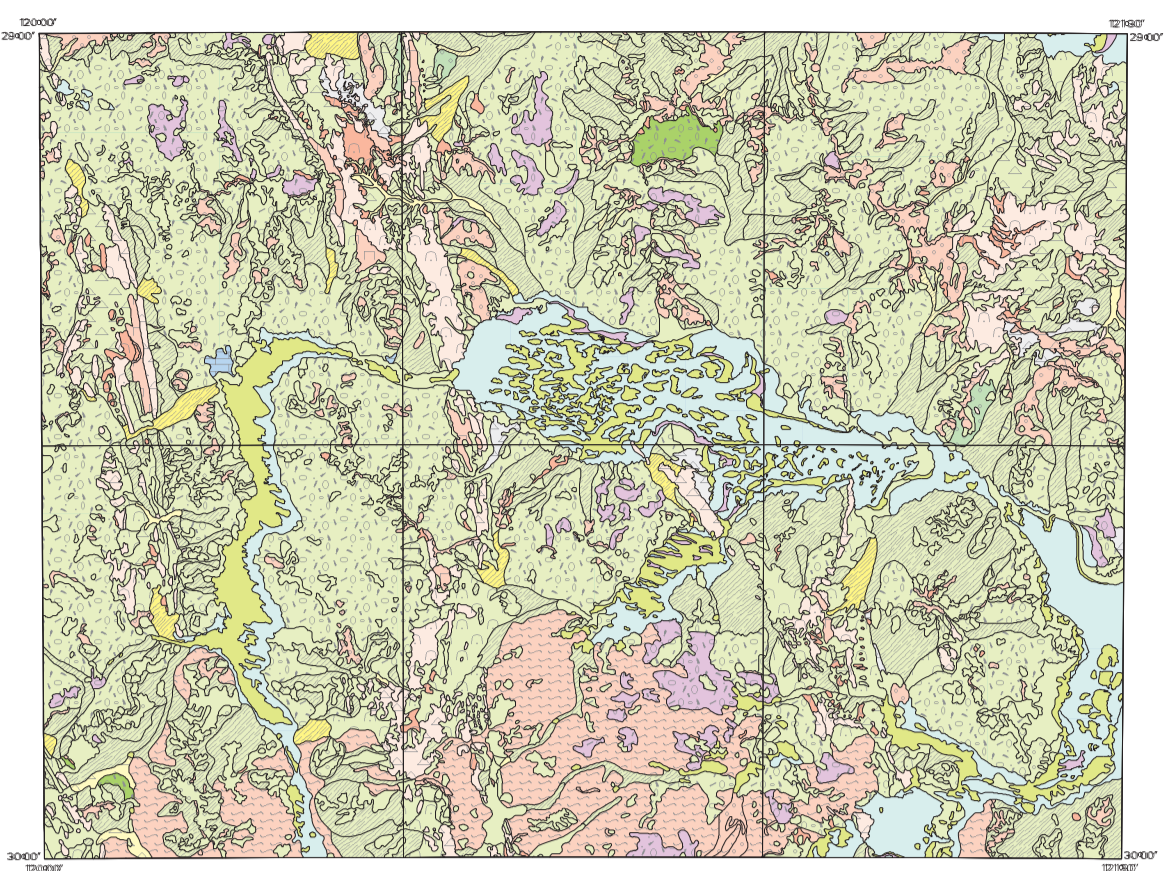
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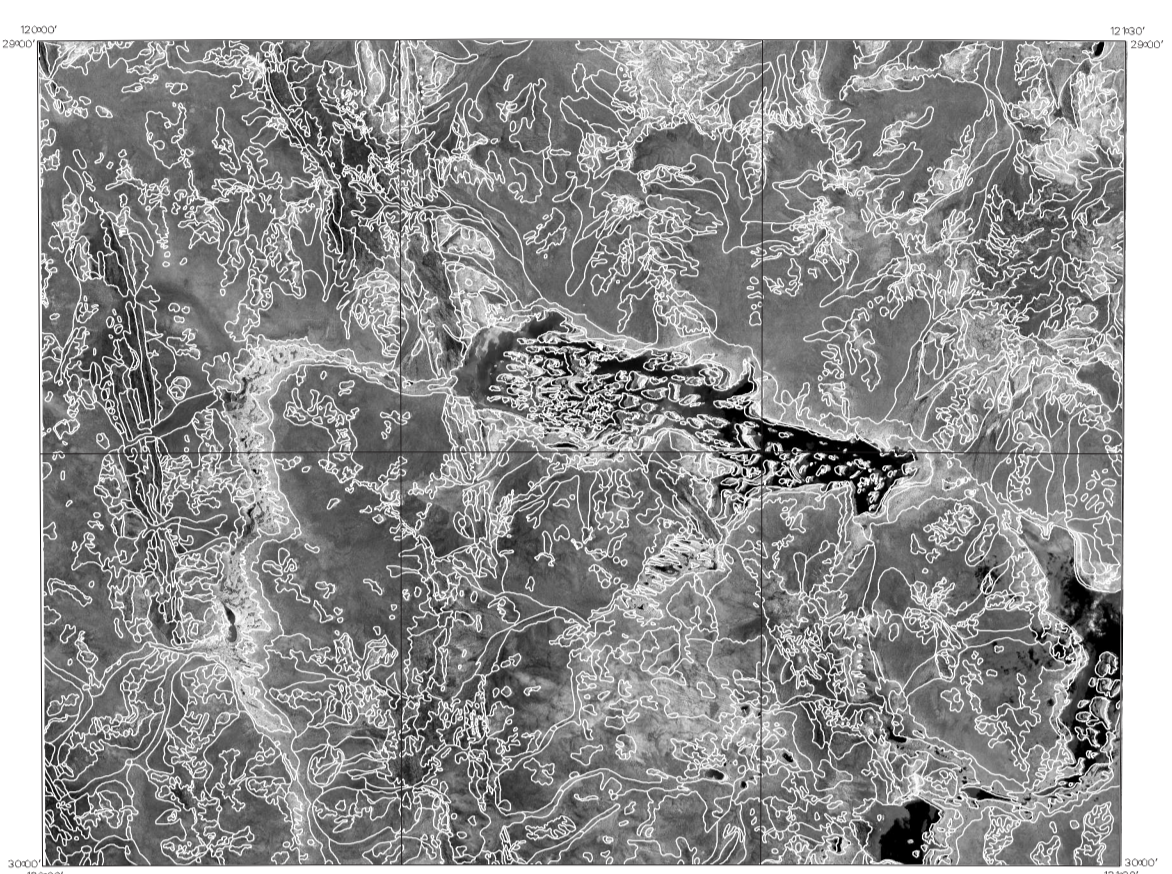
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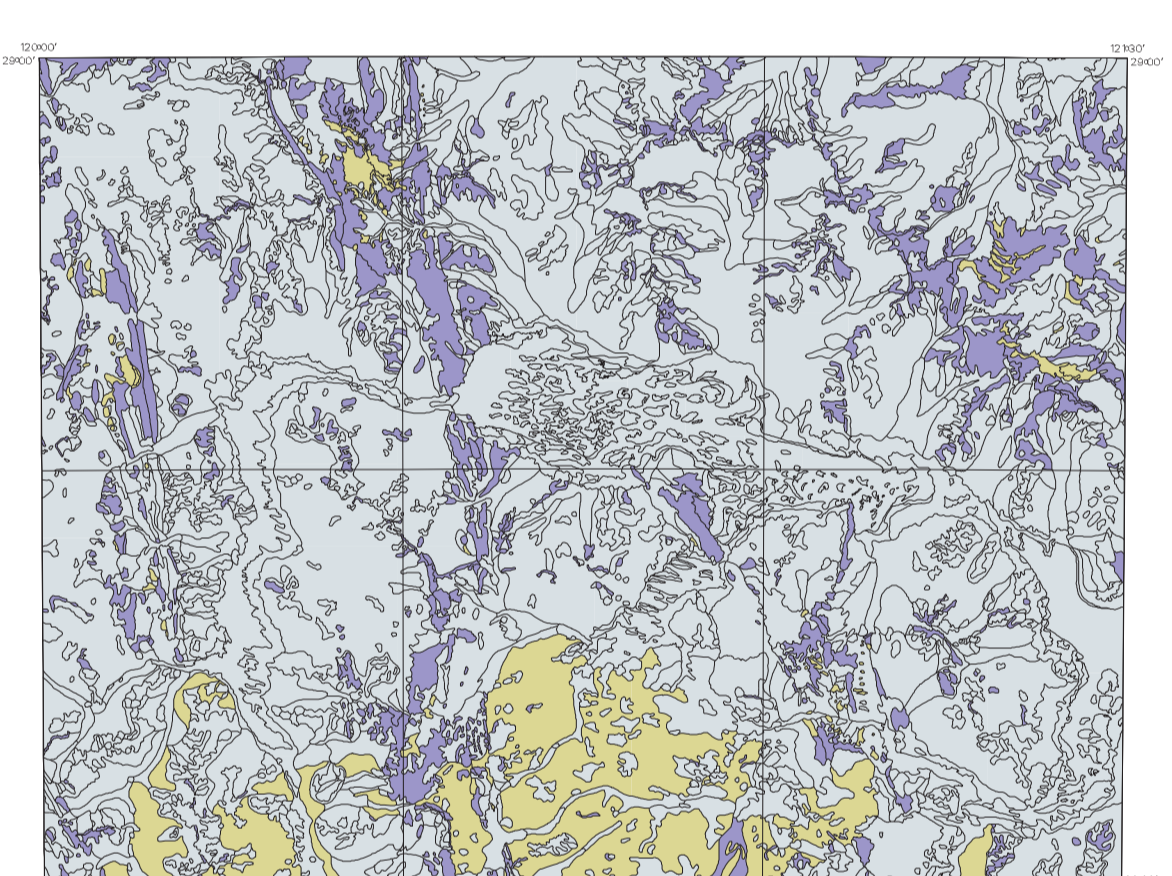
MENZIES REGOLITH LANDFORMS



THEMATIC BAND 5 IMAGE OF MENZIES WITH REGOLITH POLYGONS

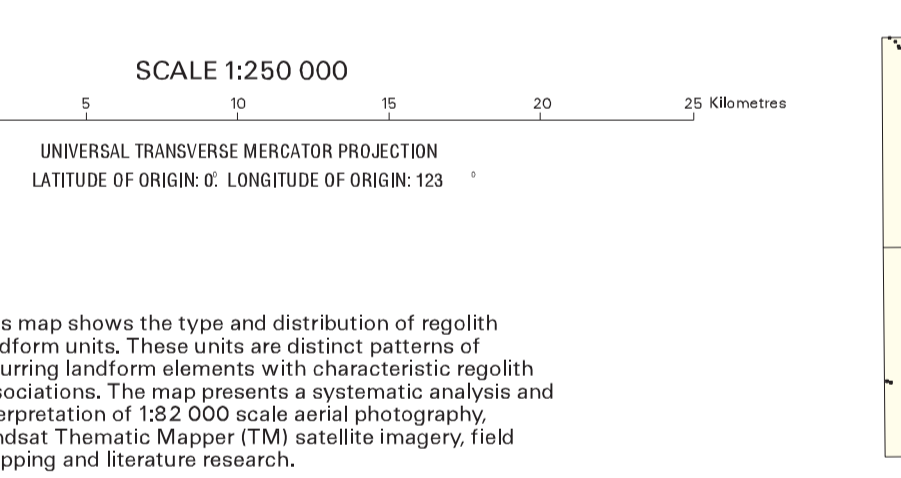
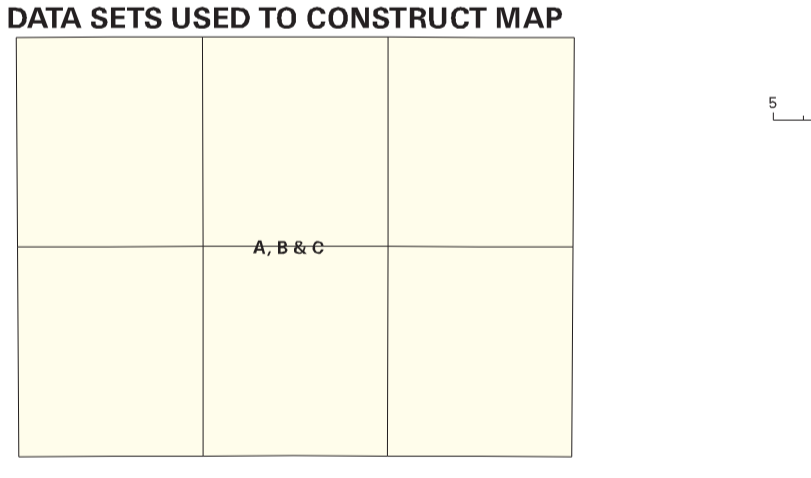
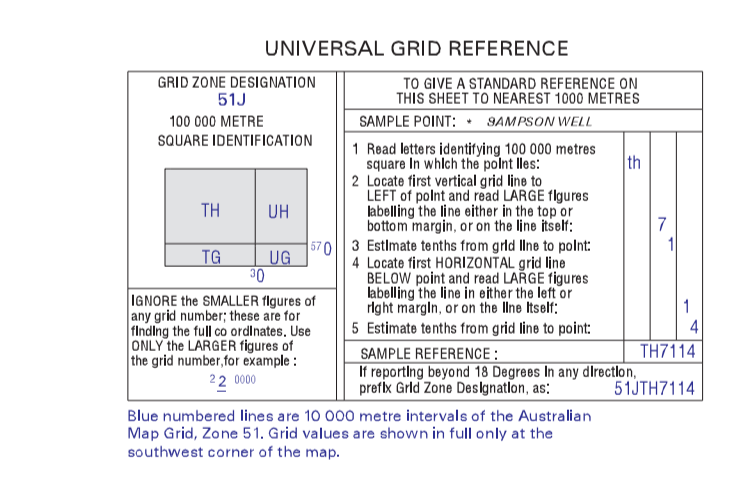


INTERPRETED LANDSCAPE CLASSES



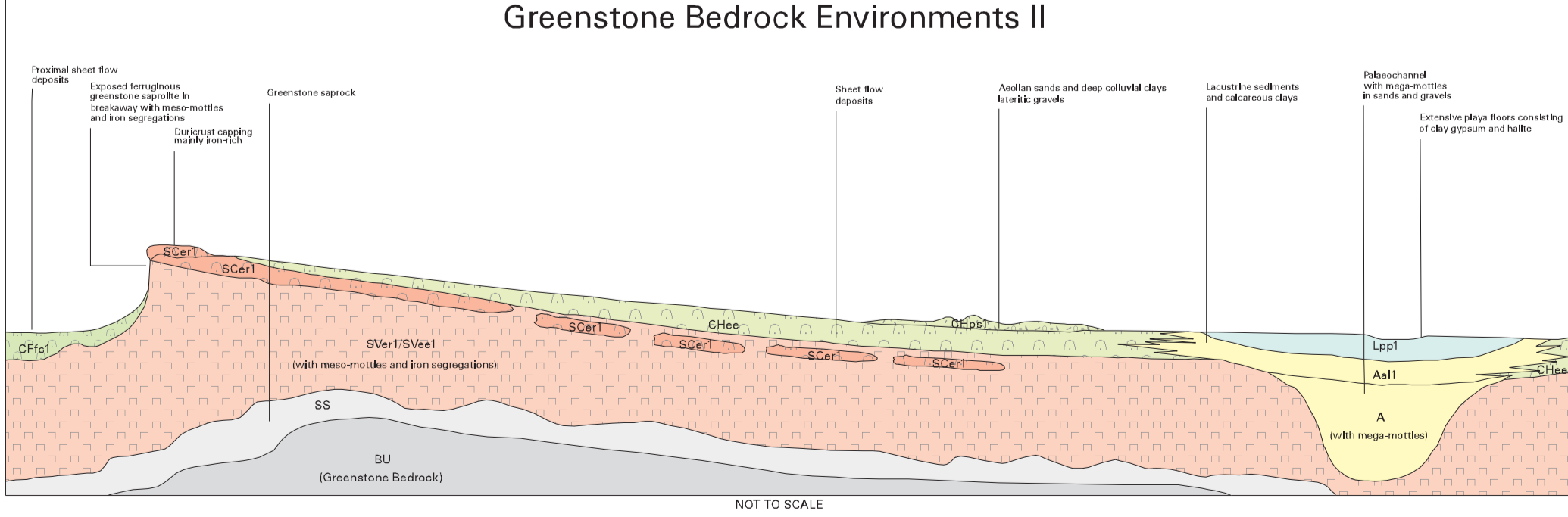
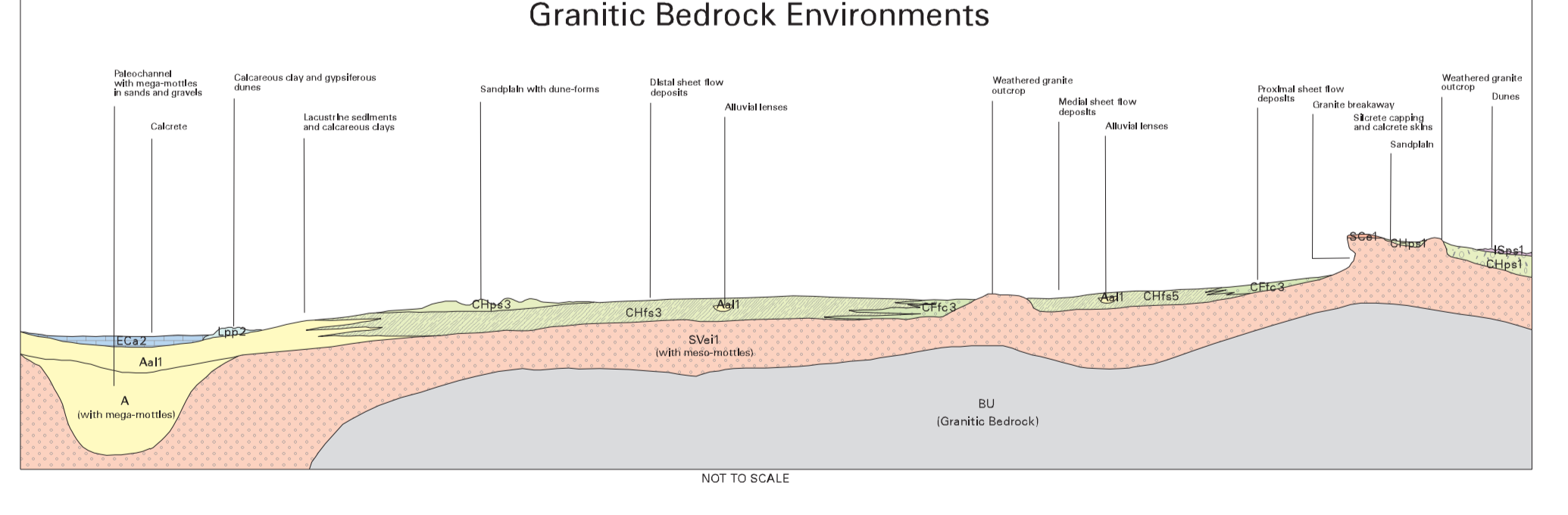
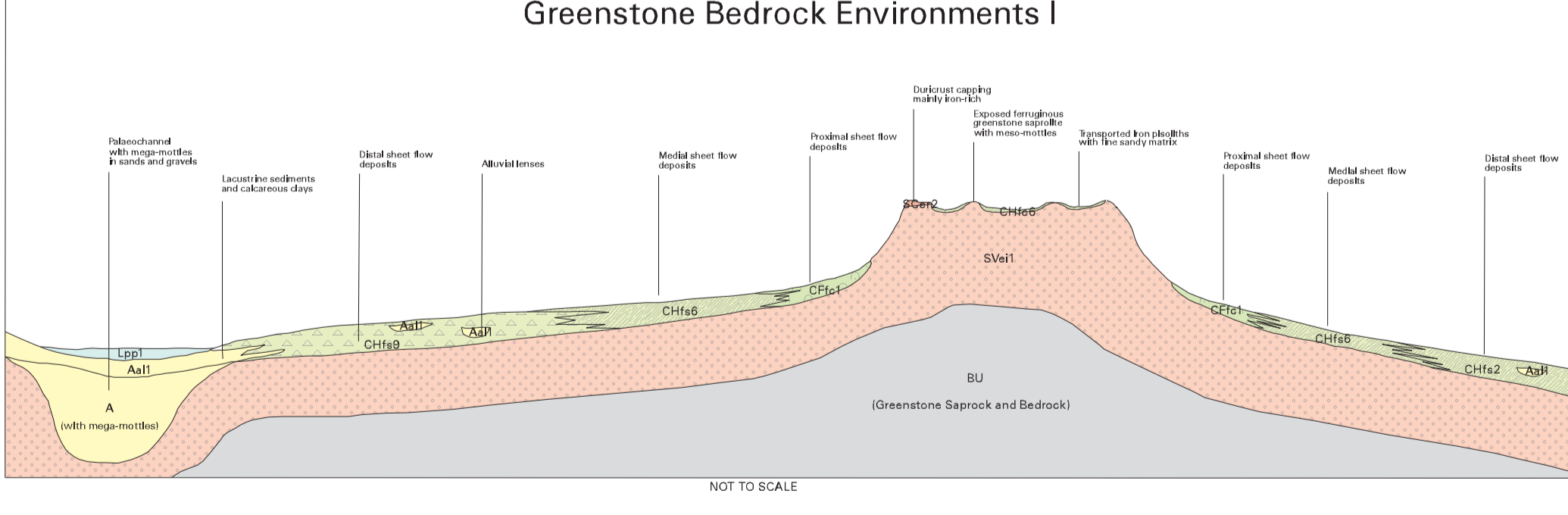
Legend:
● Relict
■ Erosional
□ Depositional

NOTE: The CBPO "RED" classification is provided for comparative purposes for those more familiar with that scheme.



Regolith 1992 by H. M. Churchward, M. A. Craig, AGSO
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Map constructed by T. Brennan and P. Urson, AGSO
Produced by AGSO Cartographic Services Unit using ArcInfo software.
Published by the Australian Geological Survey Organisation, Department of Primary Industries and Energy, Canberra, Australia.
Image No. 1:250 000 scale.
Australian Geological Survey Organisation, Canberra.
Topographic base information © AUSL 1993
It is recommended that this map be referred to as: Craig, M. A., 1993. Menzies Regolith Landforms. Image No. 1:250 000 scale. AGSO.
This map shows the type and distribution of regolith landform units. These units are distinct patterns of recurring landscape elements with characteristic regolith and geology. The red bed is a systematic analysis and interpretation of 120 000 aerial photographs, Landsat Thematic Mapper (TM) satellite imagery, field mapping and literature research.

Regional Regolith Associations



INDURATION MODIFIER

FERROUS FRAGMENTS - mixed composition: lateritic material, detritus, Fe segregations, Fe saprolite and Fe stained hardpan.
Iron segregations - Fe saprolite and Fe stained hardpan.
Red-beds - either dominantly siliceous cement and iron stained or dominantly iron cemented.
Dolomite - nodular/low rich, fragmental as single species or a mixture.
Meso-mottles developed in saprolite
Calcrete - pools, slabs, blocks and masses.
Iron fragments - variable composition but dominantly gravel sized consisting of bedrock fragments.
Lag gravels - dominantly heavy quartzite/hellitic, or quartzite/hellitic gravels or mixtures.

DEPOSITIONAL LANDFORMS

a Alluvial landform
af Alluvial plain
al Terraced land
af Longitudinal dune/ridge
af Coluvial fan
af Sheet flow fan
af Depositional plain
af Playa plain
af Sandplain

EROSIONAL LANDFORMS

e Enosional landform
e Erosional plain
e Reddiment
e Ridge
e Escarpment
e Rese
e Residual mesa
e Low hills
e Hills
e Escarpment

THEMATIC MAPPER SIGNATURE



MINERAL OCCURRENCE

◆ Gold
Data provided by Bureau of Resource Sciences from the MINDOC database



MENZIES
REGOLITH-LANDFORMS IMAGE MAP
SHEET SH51-5
EDITION 1
January 1998
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