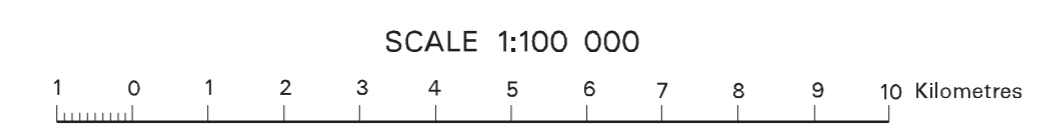


DIGITAL DATA
The digital data for this map were compiled on the AGSO ArcView System and may be available for transfer to other digital systems. Information on formats, release conditions, and costs can be obtained from the AGSO Sales Centre.



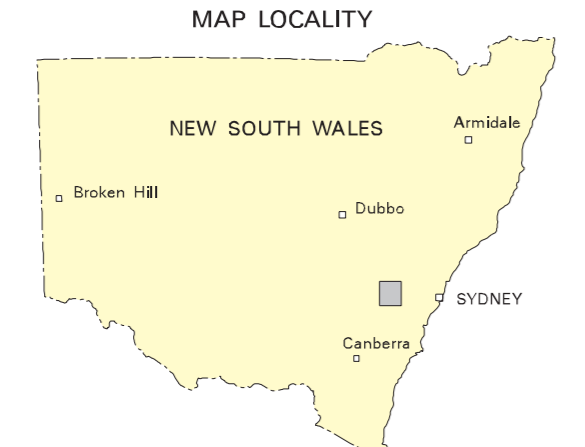
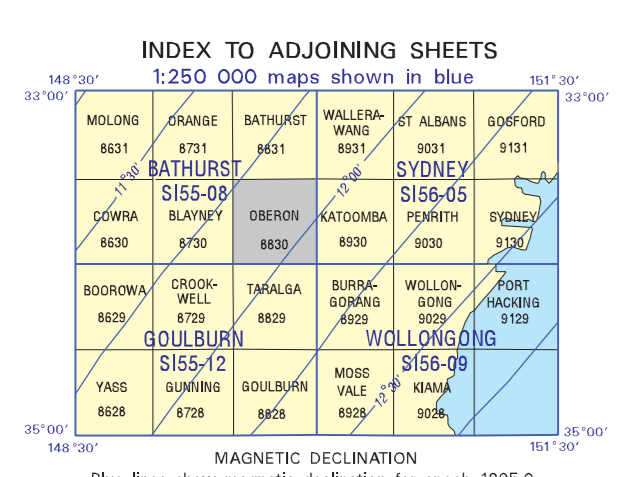
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
LATITUDE OF ORIGIN: 0° LONGITUDE OF ORIGIN: 129°

This map shows the type and distribution of regolith-landform units and indicates their dominant regolith-landform associations. These units are defined patterns of recurring landform elements with characteristic regolith associations. Geomorphic symbols indicate the location and type of geomorphic activity. This map presents a systematic analysis and interpretation of 1:80 000 scale aerial photography, 1:50 000 scale topographic maps, AUSLID, and field mapping data. High resolution (500m line spacing) airphoto georeferencing and digital data (contours) were used where applicable.

It is recommended that this map be referred to as: Hazell, M.S., Chan, R.A., 1995 - Beron Regolith-Landforms: 1:100 000 scale map. Australian Geological Survey Organisation, Canberra.
Copies of this map may be obtained from: AGSO Sales Centre, GPO Box 378, Canberra City, ACT, 2801; Ph: (06) 249 3919; Fax: (06) 249 3982

Regolith and geomorphology interpreted and compiled 1992-1994 by M.S. Hazell and R.A. Chan, AGSO
Cartography by T. Brennan, N. Curby, G. Scott, Cartographic Services Unit, AGSO
Magnetic declination information for 1995 supplied by Geomagnetic Section, AGSO
Topographic base map compiled from digital data supplied by Australian Surveying and Land Information Group, 1 AUGUST 1986, with modifications.
Published by the Australian Geological Survey Organisation, Department of Primary Industries and Energy, Canberra, issued under the authority of the Minister for Primary Industries and Energy, Canberra.

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The Commonwealth does not warrant that this map is definitive, nor free of error and does not accept liability for loss caused or arising from reliance upon information provided hereon.



WARNING: Colours will fade with prolonged exposure to light.

TRANSPORTED REGOLITH

- A Alluvial sediments
- C Colluvial sediments

IN-SITU REGOLITH

- R Residual material
- RS Residual sand
- RC Residual clay
- S Saprolite
- SV Very highly weathered bedrock
- SH Highly weathered bedrock
- SM Moderately weathered bedrock
- SL Slightly weathered bedrock

BEDROCK

- BU Unweathered bedrock

INDURATION Notable occurrences (not necessarily widespread)

- Ferrous induration
- Clay hardpan and ferrous nodules

LAVA FLOWS

- Multiple weathering profiles associated with lava flows

Flood plains
Ae1. Brown floodplains with some terraces in upper river reaches
Terraced land
At1. Dissected alluvial terraces on highly weathered Bathurst Granite
Rises
Ar2. Rounded cobbles on scarp terraces flanking upper Fish and Duckmanton Rivers
Low hills
Ca1. Sand and gravel colluvium and alluvium of granitic provenance on very highly weathered saprolite, some clay hardpan, some detritus from sedimentary bedrocks; spurs and depressions with steep slopes along northeast margin of Bathurst Granite erosion level
Hills
Ca1. Sand and gravel colluvium and alluvium of granitic provenance on highly weathered saprolite; large granite tors on north-northeast trending ridge spurs with steep slopes along southeast edge of Bathurst Granite

Erosional plains
Rae1. Residual quartz sand and clay on very highly weathered granite; some tors on rises
Low hills
Rae1. Residual quartz sand and clay with granite concretions on watershed between Fish and Campbell Rivers
Rae1. Residual quartz sand between granite tors; low hills on plateau bounded by very steep escarpments
Lava plateaus
Sv1. Shattered relief lava flows; often multiple flows with underlying alluvial sediments and intervening variably weathered basalt or trachyte, silts in places
Erosional plains
Sv1. Old erosion zone, sometimes pedic zone and ferruginous nodules and nodules; broad alluvial fans
Low hills
Sv1. Metasiltstone or siltstone on some rises, palaeosol/coluvium redistributed into present day soils; intervening rises and broad alluvial valleys; lower than adjacent tertiary basalt
Sv1. Highly weathered in more incised areas, colluvial footscapes, some palaeosol/coluvium on crests; moderately incised low hills, lower than adjacent tertiary basalt
Sv1. Granite tors and sandy colluvium and alluvium, minor slightly weathered metasediments and Sydney Basin outcrops; alluvial remnants above Bathurst Granite erosion level
Hills
Sv1. Granite saprolite with some fresh concretions and tors, extensive colluvium on lower slopes and deep alluvium in narrow drainage lines, iron induration in places; rolling hills with open rounded valley floors
Sv1. Occasional tors; moderately steep slopes with some stream incision
Low hills
Sv1. Varies to moderately weathered bedrock, scattered outcrops; low lying area with rounded to sub-rounded low hills and low angle slopes with increasing alluvial fans
Hills
Sv1. Varies from less weathered to very highly weathered bedrocks close to basalt flows; rounded hills
Sv1. Large tors along steep narrow ridges, colluvium and alluvium associated with drainage lines

Erosional plains
SM1. Saprolite, with stream terraces along bigger streams in Macquarie River headwaters; low angle fans from higher banking units
SM2. Plateaus forming highest parts of Beron Plateau on drainage divides
Low hills
SM1. Shallow duplex and alkaloid soils in places; lines of low hills with conical to pointed crests, long slopes steeper towards crests, v-shaped valleys
SM2. Mineral soil on rounded closely spaced low hills, minor surface wash and alluvium in depressions; incised poor country
SM3. Granite open low hills with increasing alluvium in drainage lines and depressions
SM4. Some very highly weathered bedrock and residual clay; colluvium on most slopes; broad alluvial valleys rounded low hills and rises
SM5. Some very highly weathered bedrock; low hills on narrow dissected plateaus
SM6. Some highly weathered bedrock and very highly weathered sub-basaltic bedrock, outcrop on some ridges and lower slopes; steep hills, often with basalt caps
SM7. Includes slightly weathered bedrock and minor outcrops; narrow well incised valleys
SM8. Shallow saprolite and colluvium on lower slopes, outcrop on crests; craggy low hills within Campbell River valley
SM9. Highly weathered bedrock, shallow soils on crests, some outcrop; rounded low hills with wide alluvial valleys
Hills
SM1. Minimal soil; colluvium at base of slopes, minor ferruginous induration; steep hills with sharp to sub-rounded crests and narrow interlocking valleys with narrow strips of alluvium
SM2. Shallow soils and outcrop on upper slopes, colluvium on lower slopes; rounded interlocking hills with convex slopes
SM3. Shallow soils and outcrops; pockets of colluvium; weathering rounded hills with steep slopes
SM4. Some highly weathered bedrock; widely spaced narrow ridges and spurs with steep slopes and v-shaped valleys
SM5. Old soils on upper slopes, colluvium and alluvium associated with lower slopes and valleys; escarpment protruding into southern rim of Bathurst Granite erosion level
SM6. Some highly weathered bedrock; steep colluvium in places, alluvium in wider valleys; rounded hills, strike aligned in places
SM7. Some highly weathered bedrock; slope wash deposits and alluvial fans on lower slopes; some low hills, strike aligned chert beds in places
SM8. Some highly weathered bedrock, thin colluvium on slopes is thicker below basalt residuals; hills often capped by basalt with steep scarp slopes; some low hills
SM9. Shallow soils, some highly weathered bedrock, thick colluvium on footslopes; steep slopes, crests of some hills capped by basalt
SM10. Shallow sandy granitic soils; rolling to steep hills
Mountains
SM1. Shallow soils, includes slightly weathered bedrock, some coarse colluvium, deeper soils in valleys, boulder bedrock; incised terrain associated with Kowmung, Holston and Tugger Rivers

Erosional plains
SL1. Includes moderately weathered bedrock; flat and sloping north-south elongated plains with some rises; bevelled erosion edge on north and south sides of Bathurst Granite erosion level
Low hills
SL1. Silty sandy soils, some moderately weathered bedrock, thick sandy colluvium and alluvium outcrop on upper slopes, shallow valleys
SL2. Some colluvium at base of slopes; north-west oriented low hills to hills, sharp ridges and closely spaced drainage lines on steep slopes
Hills
SL1. Shallow residual sands between outcrops; steep hills and rises with rounded crests; escarpments include steep escarpment above Campbell River
Mountains
SL1. Shallow silty sands and earths, outcrop common; precipitous slopes down to Kowmung River

Hills
BU1. Stony some soils at base of slopes, slightly weathered bedrock and alkaloid soils in places, minor area of remnant soil on flat ridges; very steep hills and mountains, a few remnant flat-topped ridges on higher terrain; part of metamorphic remnant of Bathurst Granite
BU2. Residual sand between fresh granite outcrops, colluvial sand at base of slopes, high resistant ridges

LANDFORMS

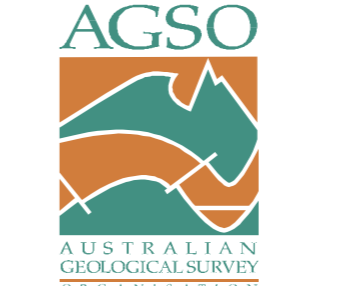
- a Alluvial landforms
- at Terraced land
- aw Alluvial wash
- ca Colluvial fans
- pe Depositional plains

- ep Erosional plains
- er Piedmont
- es Residual rises
- eh Low hills
- eh Hills
- er Erosional

- vp Lava plains
- vp Lava plateaus

NGMA

Product of the National Geoscientific Mapping Accord



BERON-REGOLITH-LANDFORMS

SHEET 8830

PRELIMINARY EDITION 1995

SUBJECT TO AMENDMENT

MINERAL DEPOSITS

Bathurst Mineral Deposit Database, Department of Mineral Resources, NSW

- Au Polymetallic
- Cu and Au Fe and Mn
- Cu Pyrite
- Ag and (Au) Sn, W, Mo
- Ag and (Au) Coal and Oil
- Ag and (Gems) Industrial
- Gems