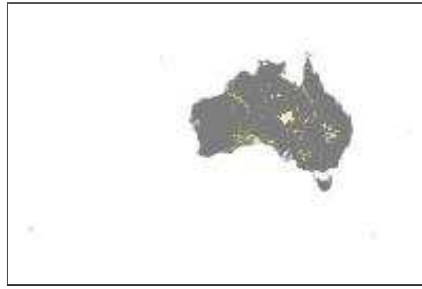


Surface Geology of Australia, 1:1 000 000 scale, 2012 edition - Geological Unit Polygons

File Geodatabase Feature Class



Tags

GEOSCIENCES Geology

Summary

The Surface Geology of Australia 1:1M scale dataset (2012 edition) is a seamless national coverage of outcrop and surficial geology, compiled for use at or around 1:1 million scale.

Description

The Surface Geology of Australia 1:1M scale dataset (2012 edition) is a seamless national coverage of outcrop and surficial geology, compiled for use at or around 1:1 million scale. The data maps outcropping bedrock geology and unconsolidated or poorly consolidated regolith material covering bedrock. Geological units are represented as polygon and line geometries, and are attributed with information regarding stratigraphic nomenclature and hierarchy, age, lithology, and primary data source. The dataset also contains geological contacts, structural features such as faults and shears, and miscellaneous supporting lines like the boundaries of water and ice bodies. The 2012 dataset has been updated from the previous 2010 data by updating geological unit data to 2012 information in the Australian Stratigraphic Units Database (<http://www.ga.gov.au/products-services/data-applications/reference-databases/stratigraphic-units.html>), incorporating new published mapping in the Northern Territory and Queensland, and correcting errors or inconsistent data identified in the previous edition, particularly in the Phanerozoic geology of Western Australia. The attribute structure of the dataset has also been revised to be more compatible with the GeoSciML data standard, published by the IUGS Commission for Geoscience Information. The first edition of this national dataset was first released in 2008, with map data compiled largely from simplifying and edge matching existing 1:250 000 scale geological maps. Where these maps were not current, more recent source maps ranging in scale from 1:50 000 to 1:1 million were used. In some areas where the only available geological maps were old and poorly located, some repositioning of mapping using recent satellite imagery or geophysics was employed.

Credits

Raymond, O.L.
Liu, S.
Gallagher, R.
Zhang, W.
Highet, L.M.

Use limitations

Please refer to the 'Resource Constraints' section for limitations of use.

Extent

West 141.205707 **East** 153.385830
North -28.355750 **South** -37.477054

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE **geoscientificInformation**

* CONTENT TYPE **Downloadable Data**
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION **No**

THEME KEYWORDS **GEOSCIENCES-Geology**

THESAURUS ►

TITLE **ANZLIC Search Words**
REVISION DATE **2008-05-15**

EDITION **Version 2.1**

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ►

TITLE **Surface Geology of Australia, 1:1 000 000 scale, 2012 edition - Geological Unit Polygons**
ALTERNATE TITLES **GEOLOGY.GeologicUnitPolygons1M**
REVISION DATE **2018-11-30 00:00:00**
PUBLICATION DATE **2012-11-30 00:00:00**

EDITION **1.3**
EDITION DATE **2018-11-30**

PRESENTATION FORMATS *** digital map**
FGDC GEOSPATIAL PRESENTATION FORMAT **vector digital data**

OTHER CITATION DETAILS

It is recommended that this dataset be referred to as:

Wade S.L., Barry C.M., Nelson M.D. & Gammridge L. (compilers) 2018. Renewable energy map of New South Wales, Version 1.3 (Digital Dataset). Geological Survey of New South Wales, Maitland.

Please note that raw data has been sourced from "Geoscience Australia"

We (the Department) are the Publishers, and the others (Geoscience Australia) are the Custodians.

Hide Citation ▲

Citation Contacts ►

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CONTACT'S POSITION Divisional Information Manager - MNHD
CONTACT'S ROLE custodian

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CONTACT'S ROLE publisher

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ONLINE RESOURCE

LOCATION <http://www.resourcesandgeoscience.nsw.gov.au>
NAME NSW Resources and Geoscience website
DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience
FUNCTION PERFORMED information

Hide Contact information ▲

Hide Citation Contacts ▲

Resource Details ►

DATASET LANGUAGES * English (AUSTRALIA)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
SPATIAL REPRESENTATION TYPE * vector

SPATIAL RESOLUTION

DATASET'S SCALE

SCALE DENOMINATOR 1000000

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.4.0.5524

CREDITS

Raymond, O.L.

Liu, S.

Gallagher, R.

Zhang, W.

Highet, L.M.

ARCGIS ITEM PROPERTIES

* NAME Geothermal_Outcropping_Granites

* LOCATION file:///\\Maitlfp11

\\group\Geosurvey\GeoInfo\GeoSpatial\Products\Mapping\State\NSW Renewables\2019

\Online data\RenewablesData.gdb

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE 141.205707

* EAST LONGITUDE 153.385830

* NORTH LATITUDE -28.355750

* SOUTH LATITUDE -37.477054

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 141.205707

* EAST LONGITUDE 153.385830

* SOUTH LATITUDE -37.477054

* NORTH LATITUDE -28.355750

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME Geoscience Australia - MNHD

CONTACT'S POSITION Divisional Information Manager - MNHD

CONTACT'S ROLE custodian

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LOCATION <http://www.ga.gov.au/data-pubs>

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CONTACT'S ROLE publisher

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POSTAL CODE 2320
COUNTRY AU
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LOCATION <http://www.resourcesandgeoscience.nsw.gov.au>
NAME NSW Resources and Geoscience website
DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience
FUNCTION PERFORMED information

Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE
UPDATE FREQUENCY as needed

Hide Resource Maintenance ▲

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

THE FOLLOWING LIMITATION APPLIES TO THE RAW DATA SUPPLIED BY Geoscience Australia to NSW Department of Planning & Environment, Division of Resources & Geoscience:

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LIMITATIONS OF USE

THE FOLLOWING LIMITATION APPLIES TO THE DERIVATIVE WORKS AND PLATFORM

OF DELIVERY:

<http://www.planning.nsw.gov.au/Copyright-and-Disclaimer>

CONSTRAINTS

LIMITATIONS OF USE

Please refer to the 'Resource Constraints' section for limitations of use.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Geographic

* GEOGRAPHIC COORDINATE REFERENCE GCS_GDA_1994

* COORDINATE REFERENCE DETAILS

GEOGRAPHIC COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 4283

X ORIGIN -400

Y ORIGIN -400

XY SCALE 999999999.99999988

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -100000

M SCALE 10000

XY TOLERANCE 8.9831528411952133e-009

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LEFT LONGITUDE -180

LATEST WELL-KNOWN IDENTIFIER 4283

WELL-KNOWN TEXT GEOGCS["GCS_GDA_1994",DATUM["D_GDA_1994",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4283]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 4283

* CODESPACE EPSG

* VERSION 8.3.4(3.0.1)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME Geothermal_Outcropping_Granites

* OBJECT TYPE composite

* OBJECT COUNT 1920

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME Geothermal_Outcropping_Granites

* FEATURE TYPE Simple

* GEOMETRY TYPE Polygon

* HAS TOPOLOGY FALSE

* FEATURE COUNT 1920

* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ►

SCOPE OF QUALITY INFORMATION ►
RESOURCE LEVEL dataset

Hide Scope of quality information ▲

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►
TEST DATE 2000-01-01 00:00:00

MEASURE NAME GA tests

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Positional accuracy of this data ranges between 50 and 1000 metres, depending on the quality and scale of the original source data. Positional accuracy is attributed in the data at a feature level.

Hide Data quality report - Absolute external positional accuracy ▲

DATA QUALITY REPORT - NON QUANTITATIVE ATTRIBUTE ACCURACY ►
TEST DATE 2000-01-01

MEASURE NAME GA tests

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Attribute data is the best available at the time of publication. All geological units are fully attributed with geological unit name, hierarchy, age, and lithological composition according to the Australian Stratigraphic Units Database (<http://www.ga.gov.au/products-services/data-applications/reference-databases/stratigraphic-units.html>), which is the authoritative lexicon of Australian lithostratigraphic units.

Hide Data quality report - Non quantitative attribute accuracy ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►
TEST DATE 2000-01-01

MEASURE NAME GA tests

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

This ESRI Geodatabase dataset has been constructed using ESRI's polygon and line topology verification, ensuring all geological unit (polygon) boundaries are overlain

by corresponding geological contacts (lines). The data structure conforms to the Geoscience Australia standard for a digital geological map dataset, which is in turn compatible with the GeoSciML data transfer standard published by the IUGS Commission for the management and Application of Geoscience Information (www.geosciml.org). Systematic checks have been made of both unit and line information throughout the entire data set.

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

TEST DATE 2000-01-01 00:00:00

MEASURE NAME GA tests

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

The geological information is complete within the bounding polygon.

[Hide Data quality report - Completeness omission ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

The 2012 dataset has been updated from the previous 2010 data by updating geological unit data to 2012 information in the Australian Stratigraphic Units Database (<http://www.ga.gov.au/products-services/data-applications/reference-databases/stratigraphic-units.html>), incorporating new published mapping in the Northern Territory and Queensland, and correcting errors or inconsistent data identified in the previous edition, particularly in the Phanerozoic geology of Western Australia. The attribute structure of the dataset has also been revised to be more compatible with the GeoSciML data standard, published by the IUGS Commission for Geoscience Information.

The first edition of this national dataset was first released in 2008, with map data compiled largely from simplifying and edge matching existing 1:250 000 scale geological maps. Where these maps were not current, more recent source maps ranging in scale from 1:50 000 to 1:1 million were used. In some areas where the only available geological maps were old and poorly located, some repositioning of mapping using recent satellite imagery or geophysics was employed.

Note: This dataset has been reviewed as part of the NSW Renewable Energy Mapping Project update (version 1.3, November 2018), with no updates required.

[Hide Lineage ▲](#)

Geoprocessing history ▼

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Director of Geoscience Information

ORGANIZATION'S NAME NSW Resources and Geoscience, Geological Survey of NSW

CONTACT'S ROLE publisher

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ADMINISTRATIVE AREA New South Wales

POSTAL CODE 2320

COUNTRY AU

E-MAIL ADDRESS geoscience.info@geoscience.nsw.gov.au

ONLINE RESOURCE

LOCATION <http://www.resourcesandgeoscience.nsw.gov.au>

NAME NSW Resources and Geoscience website

DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience

FUNCTION PERFORMED information

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.3.1

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [Geothermal_Outcropping_Granites](#) ►

* TYPE Feature Class

* ROW COUNT 1920

FIELD [OBJECTID_1](#) ►

* ALIAS OBJECTID_1

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID_1 ▲](#)

FIELD [OBJECTID](#) ►

* ALIAS OBJECTID

* DATA TYPE Integer

- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Internal feature number.

- * DESCRIPTION SOURCE
ESRI

- * DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

Hide Field OBJECTID ▲

FIELD Lithology ►

- * ALIAS Lithology
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
A summary description of the lithological composition of the geologic unit

- DESCRIPTION SOURCE
Geoscience Australia

Hide Field Lithology ▲

FIELD Map_Symbol ►

- * ALIAS Map symbol
- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Letter symbol or code representing the geologic unit

- DESCRIPTION SOURCE
Geoscience Australia

Hide Field Map_Symbol ▲

FIELD Unit_Name ►

- * ALIAS Unit name
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Name of the geologic unit

- DESCRIPTION SOURCE
Geoscience Australia

Hide Field Unit_Name ▲

FIELD Description ►

- * ALIAS Description
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Text description of the geologic unit

DESCRIPTION SOURCE

Geoscience Australia

[Hide Field Description ▲](#)

FIELD Type_Name ►

- * ALIAS Type name
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

The type of geologic unit. (eg, lithostratigraphic, chronostratigraphic, etc) Term from a controlled vocabulary.

DESCRIPTION SOURCE

Geoscience Australia

[Hide Field Type_Name ▲](#)

FIELD Age ►

- * ALIAS Age
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Text summary description of the geologic history of the geologic unit

DESCRIPTION SOURCE

Geoscience Australia

[Hide Field Age ▲](#)

FIELD Morphology ►

- * ALIAS Morphology
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Description of the type of occurrence of the geologic unit (eg, pluton, dyke, sill, marker bed, vein, etc)

DESCRIPTION SOURCE

Geoscience Australia

[Hide Field Morphology ▲](#)

FIELD SHAPE ►

- * ALIAS Shape

- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Feature geometry.

- * DESCRIPTION SOURCE
ESRI

- * DESCRIPTION OF VALUES
Coordinates defining the features.

Hide Field SHAPE ▲

- FIELD SHAPE_Leng ►
- * ALIAS SHAPE_Leng
 - * DATA TYPE Double
 - * WIDTH 8
 - * PRECISION 0
 - * SCALE 0
 - FIELD DESCRIPTION
Length of feature in internal units.

 - DESCRIPTION SOURCE
ESRI

Hide Field SHAPE_Leng ▲

- FIELD SHAPE_Length ►
- * ALIAS Shape_Length
 - * DATA TYPE Double
 - * WIDTH 8
 - * PRECISION 0
 - * SCALE 0
 - * FIELD DESCRIPTION
Length of feature in internal units.

 - * DESCRIPTION SOURCE
ESRI

 - * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

Hide Field SHAPE_Length ▲

- FIELD SHAPE_Area ►
- * ALIAS Shape_Area
 - * DATA TYPE Double
 - * WIDTH 8
 - * PRECISION 0
 - * SCALE 0
 - * FIELD DESCRIPTION
Area of feature in internal units squared.

 - * DESCRIPTION SOURCE

ESRI

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field SHAPE_Area ▲](#)

[Hide Details for object Geothermal_Outcropping_Granites ▲](#)

[Hide Fields ▲](#)

References ►

PORTRAYAL CATALOGUE CITATION ►

TITLE Surface Geology of Australia, 1:1 000 000 scale, 2012 edition - Geological Unit Polygons

ALTERNATE TITLES GEOLOGY.GeologicUnitPolygons1M

REVISION DATE 2018-11-30 00:00:00

PUBLICATION DATE 2012-11-30 00:00:00

EDITION 1.3

EDITION DATE 2018-11-30

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

It is recommended that this dataset be referred to as:

Wade S.L., Barry C.M., Nelson M.D. & Gammridge L. (compilers) 2018. Renewable energy map of New South Wales, Version 1.3 (Digital Dataset). Geological Survey of New South Wales, Maitland.

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[Hide Portrayal catalogue citation ▲](#)

[Hide References ▲](#)

Metadata Details ►

* METADATA LANGUAGE English (AUSTRALIA)

* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 53e4b102-6ace-4cd9-8a57-de1b19968892

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset

SCOPE NAME * dataset

LAST UPDATE 2012-12-13

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification GML3.2
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2016-04-04 13:42:23
LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-02-11 15:29:26

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2019-02-11 15:29:26

Hide Metadata Details ▲

Metadata Contacts ►

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CONTACT'S POSITION Divisional Information Manager - MNHD
CONTACT'S ROLE custodian

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NAME NSW Resources and Geoscience website

DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience
FUNCTION PERFORMED information

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE
UPDATE FREQUENCY unknown

[Hide Metadata Maintenance ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL
THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

FGDC Metadata (read-only) ▼