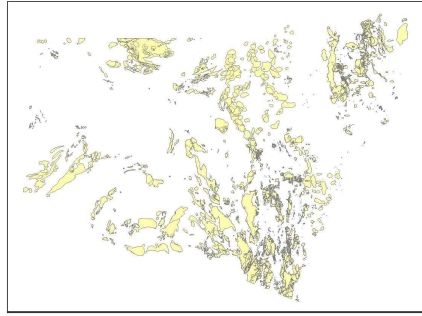


Geothermal undercover granites

File Geodatabase Feature Class



Tags

Undercover granites, renewables, geothermal

Summary

This feature class shows the extent of granites identified below the ground surface. The layer has been derived by using outcrop geology together with geophysical interpretation and (in some cases) borehole information to infer the subsurface extent of granitic intrusions.

Description

This dataset shows the extent of granitic bodies in NSW which have been identified below the ground surface. The layer has been derived by using outcrop geology together with geophysical interpretation and (in some cases) borehole information to infer the subsurface extent of granitic intrusions. The layer was compiled by merging the best available vector geology datasets (at July 2016) showing the distribution of NSW granitic bodies in subsurface. See the lineage statement for more information on constituent datasets.

Credits

Geological Survey of NSW, 2016

Use limitations

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

Extent

West 140.999130 **East** 153.416888
North -28.211920 **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 RENEWABLES-Geothermal

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Geothermal undercover granites
PUBLICATION DATE 2016-07-25 00:00:00
REVISION DATE 2018-11-30 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 collated from various sources (see lineage statement).

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

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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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

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

CREDITS
Geological Survey of NSW, 2016

ARCGIS ITEM PROPERTIES
* NAME Geothermal_Undercover_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 140.999130
* EAST LONGITUDE 153.416888
* NORTH LATITUDE -28.211920
* SOUTH LATITUDE -37.477054
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 140.999130
* EAST LONGITUDE 153.416888
* SOUTH LATITUDE -37.477054
* NORTH LATITUDE -28.211920
* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ▶

POINT OF CONTACT
INDIVIDUAL'S NAME Gary Colquhoun
ORGANIZATION'S NAME Geological Survey of NSW
CONTACT'S POSITION Senior Geologist
CONTACT'S ROLE custodian

POINT OF CONTACT
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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 not planned

MAINTENANCE CONTACT

INDIVIDUAL'S NAME Gary Colquhoun
ORGANIZATION'S NAME Geological Survey of NSW
CONTACT'S POSITION Senior Geologist
CONTACT'S ROLE custodian

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

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_Undercover_Granites
- * OBJECT TYPE composite
- * OBJECT COUNT 4646

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME Geothermal_Undercover_Granites
- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polygon
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 4646
- * 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 ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

This dataset has been derived from a merge of the best available spatial datasets

showing NSW granitic bodies in subsurface. No attempt has been made to remove edge match problems or stratigraphic nomenclatural inconsistencies between datasets - these issues are currently being addressed in the ongoing NSW Seamless Geology project.

Constituent datasets of the NSW Undercover Granites dataset include:

COLQUHOUN G.P., PHILLIPS, G., HUGHES, K.S, DEYSSING L., FITZHERBERT, J.A., & TROEDSON, A.L. 2015. New South Wales Zone 56 Seamless Geology dataset, version 1 [Digital Dataset]. Geological Survey of New South Wales, Maitland.

GLEN R.A., DAWSON M.W., & COLQUHOUN G.P., 2007, Eastern Lachlan Orogen Geoscience Database (on DVD-ROM) Version 2, Geological Survey of New South Wales, Department of Primary Industries, Maitland, NSW, Australia.

COLQUHOUN G.P., PHILLIPS, G., BALLARD, J. , HUGHES, K.S, & DEYSSING L., 2016 (in prep). New South Wales Zone 54 Seamless Geology dataset, version 1 [Digital Dataset]. Geological Survey of New South Wales, Maitland.

HEGARTY R. & CARLTON A. (unpubl.). New South Wales Western Division Interpretation. Geological Survey of New South Wales, Maitland.

SCHEIBNER E. 1997. Stratotectonic Map of New South Wales, 1:1 000 000. Geological Survey of New South Wales, Sydney.

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 ▲](#)

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

CONTACT INFORMATION ►

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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 Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION 10.3.1

* NAME File Geodatabase Feature Class

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT [Geothermal_Undercover_Granites ►](#)

* TYPE Feature Class

* ROW COUNT 4646

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 [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 Unit_Name ►

- * ALIAS Unit name
- * DATA TYPE String
- * WIDTH 200
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Stratigraphic name of the granite expressed in hierarchical nomenclature separated by forward slashes (ie. Batholith/Supersuite/Suite/Pluton/Phase). Eg. Bega Batholith/Kameruka Supersuite/Jingo Creek Suite//Egan Peaks Adamellite/

DESCRIPTION SOURCE

N/A

Hide Field Unit_Name ▲

FIELD Description ►

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

FIELD DESCRIPTION

A short description of the granitoid

DESCRIPTION SOURCE

N/A

Hide Field Description ▲

FIELD Age ►

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

DESCRIPTION SOURCE

GSNSW

FIELD DESCRIPTION

Age of the granitic intrusion using the standard geological timescale (Gradstein et al. 2012).

Hide Field Age ▲

FIELD Letter_Symbol ►

- * ALIAS Letter symbol
- * DATA TYPE String
- * WIDTH 30
- * PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Unique letter symbol used to symbolise each granitic unit.

DESCRIPTION SOURCE

GSNSW

[Hide Field Letter_Symbol ▲](#)

FIELD SHAPE_Leng ►

* ALIAS SHAPE_Leng

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

DESCRIPTION SOURCE

ESRI

FIELD DESCRIPTION

Length of feature in internal units.

[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_Undercover_Granites ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

* METADATA LANGUAGE English (AUSTRALIA)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 7B3F1149-17A1-4C7B-9CB9-115DF500766F

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2019-02-11

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 13:42:45
LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-02-11 15:29:51

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2019-02-11 15:29:51

[Hide Metadata Details ▲](#)

Metadata Contacts ►

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CONTACT'S ROLE publisher

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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) ▼