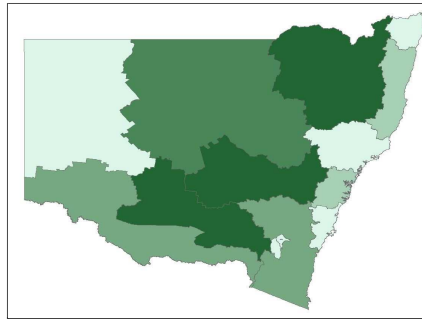


Biomass potential in 2030

File Geodatabase Feature Class



Tags

NSW, Bioenergy, Biomass, Renewable Energy, CSIRO, Polygons

Summary

This feature class shows spatial estimates of potentially available biomass for bioenergy in New South Wales, Australia in 2030.

Description

The Geological Survey of NSW used information provided by CSIRO to develop the NSW Bioenergy potential (2030) map in 2015-2016 as part of the Renewable Energy Resource Maps for the NSW Renewable Energy Action Plan, Annual Report 2015. The aim of the Bioenergy potential (2030) map was to;

(i) Source scientific research relating to NSW future bioenergy potential, see below source.

Reference - Crawford, D. F., O'Connor, M. H., Jovanovic, T., Herr, A., Raison, R. J., O'Connell, D. A. and Baynes, T. (2016), A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. *GCB Bioenergy*, 8: 707–722. doi:10.1111/gcbb.12295

(ii) Produce a statewide map illustrating different biomass sources and their bioenergy potential in 2030 per NSW statistical divisions.

Credits

Bioenergy Potential in 2030. Sources:

Crawford D.F., O'Connor M.H, Jovanovic T., Herr A., Raison R.J., O'Connell D.A. & Baynes T. 2015. A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. *GCB Bioenergy*. DOI:10.1111/gcbb.12295.

Crawford D., Jovanovic T., O'Connor M., Herr A., Raison J. & Baynes T. 2012. AEMO 100% Renewable Energy Study: Potential for electricity generation in Australia from biomass in 2010, 2030 and 2050. CSIRO Report EP-126969.

ABS Statistical districts:

Accessed from,

<http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/1259.0.30.001July%202011?OpenDocument> "Statistical District ASGC Ed 2011 Digital Boundaries in ESRI Shapefile Format"

Abstract: The digital boundaries for this edition of the ASGC are consistent with the spatial units described in the structures of the ASGC 2011. Date of effect of this edition is 1 July

2011. Digital boundaries are for Statistical Local Area (SLA), Statistical Subdivision (SSD), Statistical Division (SD), Local Government Area (LGA), Statistical District (SDIST), Major Statistical Region (MSR), Statistical Region (SR), Statistical Region Sector (SRS) and State/Territory (STE).

This is the final edition of the ASGC. To assist in the transition to the new Statistical Geography, the Australian Statistical Geography Standard (ASGS), the 2011 SLAs have been aggregated up from the 2011 Mesh Blocks (MB). The 2011 MBs are also the building blocks for the 2011 ASGS.

For full metadata statement go to <http://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/1259.0.30.001Explanatory%20Notes10July%202011?OpenDocument>.

Use limitations

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

Extent

West 140.999475 **East** 153.638340
North -28.157340 **South** -37.505047

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, farming, environment

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

THEME KEYWORDS RENEWABLES-Bioenergy

Hide Topics and Keywords ▲

Citation ►

TITLE Biomass potential in 2030
ALTERNATE TITLES Bioenergy Potential (2030)
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

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

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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 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

Bioenergy Potential in 2030. Sources:

Crawford D.F., O'Connor M.H, Jovanovic T., Herr A., Raison R.J., O'Connell D.A. & Baynes T. 2015. A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. GCB Bioenergy. DOI:10.1111/gcbb.12295.

Crawford D., Jovanovic T., O'Connor M., Herr A., Raison J. & Baynes T. 2012. AEMO 100% Renewable Energy Study: Potential for electricity generation in Australia from biomass in 2010, 2030 and 2050. CSIRO Report EP-126969.

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<http://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/1259.0.30.001Explanatory%20Notes10July%202011?OpenDocument>.

ARCGIS ITEM PROPERTIES

* NAME Bioenergy_Biomass_Potential_In_2030

* SIZE 7.646

* 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 140.999475

* EAST LONGITUDE 153.638340

* NORTH LATITUDE -28.157340

* SOUTH LATITUDE -37.505047

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 140.999475

* EAST LONGITUDE 153.638340

* SOUTH LATITUDE -37.505047

* NORTH LATITUDE -28.157340

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

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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 Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY unknown

SCOPE OF THE UPDATES dataset

[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 Bioenergy_Biomass_Potential_In_2030
- * OBJECT TYPE composite
 - * OBJECT COUNT 14

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

- FEATURE CLASS NAME Bioenergy_Biomass_Potential_In_2030
- * FEATURE TYPE Simple
 - * GEOMETRY TYPE Polygon
 - * HAS TOPOLOGY FALSE
 - * FEATURE COUNT 14
 - * 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 ►

- MEASURE NAME GSNSW testing and editing

CONFORMANCE TEST RESULTS

- TEST PASSED Yes

RESULT EXPLANATION

Bioenergy research has been sourced from an external source CSIRO in accordance

with intellectual property agreements.

Important disclaimer - from CSIRO document
CSIRO advises that the information contained in this publication comprises general statements based on scientific research. The reader is advised and needs to be aware that such information may be incomplete or unable to be used in any specific situation. No reliance or actions must therefore be made on that information without seeking prior expert professional, scientific and technical advice. To the extent permitted by law, CSIRO (including its employees and consultants) excludes all liability to any person for any consequences, including but not limited to all losses, damages, costs, expenses and any other compensation, arising directly or indirectly from using this publication (in part or in whole) and any information or material contained in it.

[Hide Data quality report - Absolute external positional accuracy ▲](#)

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

MEASURE NAME GSNSW testing and editing

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

The Bioenergy Potential (2030) map is complete and lists all of the externally sourced open file information

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

The Bioenergy Potential (2030) map was generated by using Australian Bureau of Statistics - Statistical Divisions shapefile (<http://www.abs.gov.au/>) and original research by Crawford, D. F., O'Connor, M. H., Jovanovic, T., Herr, A., Raison, R. J., O'Connell, D. A. and Baynes, T. (2016), A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. GCB Bioenergy, 8: 707–722. doi:10.1111/gcbb.12295 (<http://onlinelibrary.wiley.com/doi/10.1111/gcbb.12295/full>)

The research values reported by Crawford et al (2016) for each potential biomass were attributed to the corresponding NSW Statistical Division.

ABS Statistical districts:

Accessed from,

<http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/1259.0.30.001July%202011?OpenDocument> "Statistical District ASGC Ed 2011 Digital Boundaries in ESRI Shapefile Format"

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For full metadata statement go to <http://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/1259.0.30.001Explanatory%20Notes10July%202011?OpenDocument>.

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

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

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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 [Bioenergy_Biomass_Potential_In_2030 ►](#)

* TYPE Feature Class
* ROW COUNT 14

FIELD OBJECTID ►

- * ALIAS OBJECTID
- * 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 ▲

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 State_Code ►

- * ALIAS State code
- * DATA TYPE String
- * WIDTH 1
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Statistical Division as determined by the Australian Bureau of Statistics

- DESCRIPTION SOURCE
GSNSW

Hide Field State_Code ▲

FIELD Statistical_Division_Name ►

- * ALIAS Statistical division name
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Statistical Division as determined by the Australian Bureau of Statistics

DESCRIPTION SOURCE

GSNSW

[Hide Field Statistical_Division_Name ▲](#)

FIELD [Statistical_Division_Code ▶](#)

- * ALIAS Statistical division code
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Statistical Division Code as per Australian Bureau of Statistics

DESCRIPTION SOURCE

GSNSW

[Hide Field Statistical_Division_Code ▲](#)

FIELD [Crop_Residue ▶](#)

- * ALIAS Crop residue (kt/yr)
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Broad acre crop residues remaining after harvest

Reference - Crawford, D. F., O'Connor, M. H., Jovanovic, T., Herr, A., Raison, R. J., O'Connell, D. A. and Baynes, T. (2016), A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. GCB Bioenergy, 8: 707–722. doi:10.1111/gcbb.12295

DESCRIPTION SOURCE

GSNSW

[Hide Field Crop_Residue ▲](#)

FIELD [Grasses ▶](#)

- * ALIAS Grasses (kt/yr)
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Grasses growing outside the existing cropping and hay production areas

Reference - Crawford, D. F., O'Connor, M. H., Jovanovic, T., Herr, A., Raison, R. J., O'Connell, D. A. and Baynes, T. (2016), A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. GCB Bioenergy, 8: 707–722. doi:10.1111/gcbb.12295

DESCRIPTION SOURCE

GSNSW

[Hide Field Grasses ▲](#)

FIELD [Bagasse ▶](#)

- * ALIAS Bagasse (kt/yr)

* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Bagasse is the residue remaining after the crushing of wet cane and extraction of sugar.

Reference - Crawford, D. F., O'Connor, M. H., Jovanovic, T., Herr, A., Raison, R. J., O'Connell, D. A. and Baynes, T. (2016), A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. GCB Bioenergy, 8: 707–722. doi:10.1111/gcbb.12295

DESCRIPTION SOURCE

GSNSW

[Hide Field Bagasse ▲](#)

FIELD Waste ►

* ALIAS Waste (kt/yr)
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Materials that originate from living things and includes food waste, garden waste, paper and cardboard.

Reference - Crawford, D. F., O'Connor, M. H., Jovanovic, T., Herr, A., Raison, R. J., O'Connell, D. A. and Baynes, T. (2016), A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. GCB Bioenergy, 8: 707–722. doi:10.1111/gcbb.12295

DESCRIPTION SOURCE

GSNSW

[Hide Field Waste ▲](#)

FIELD Total_Biomass_Potential ►

* ALIAS Total biomass potential (kt/yr)
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Total bioenergy potential for 2030 calculated by combining stubble, grasses, bagasse, waste and wood values.

DESCRIPTION SOURCE

GSNSW

[Hide Field Total_Biomass_Potential ▲](#)

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 ▲](#)

FIELD Wood ►

* ALIAS Wood (kt/yr)

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Total of all wood biomass sources including

1. Plantation forest areas of hardwood and softwood plantations
2. Timber harvesting permitted native forests
3. Potential areas for new re-sprouting woody plantings which grown quickly (<10yrs)

Reference - Crawford, D. F., O'Connor, M. H., Jovanovic, T., Herr, A., Raison, R. J., O'Connell, D. A. and Baynes, T. (2016), A spatial assessment of potential biomass for bioenergy in Australia in 2010, and possible expansion by 2030 and 2050. GCB Bioenergy, 8: 707–722. doi:10.1111/gcbb.12295

DESCRIPTION SOURCE

GSNSW

[Hide Field Wood ▲](#)

[Hide Details for object Bioenergy_Biomass_Potential_In_2030 ▲](#)

[Hide Fields ▲](#)

References ►

PORTRAYAL CATALOGUE CITATION ►

TITLE Biomass potential in 2030
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

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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 681A3BBD-3578-47A3-ADA9-55597715E84E

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
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2016-06-07 12:43:28
LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-02-11 15:24:28

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2019-02-11 15:24:28

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT
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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 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) ▼