Title

NSW Wetlands

Abstract

The purpose of this project was to map the wetlands across New South Wales. Wetlands were identified using a combination of classification of spectral classes of Landsat MSS and TM imagery and ancillary wetland information to create information classes of broad wetland groups (floodplain wetlands, freshwater lakes, saline lakes, reservoirs, estuarine wetlands and coastal lagoons and lakes). The data will then be used to assess the wetland resource in each catchment.

For more details refer to: Kingsford, R., Brandis, K., Thomas, R., Crighton, P., Knowles, E. and Gale, E., 2004. Classifying landform at broad spatial scales: the distribution and conservation of wetlands in New South Wales, Australia. Marine and Freshwater Research 55, 17-31. http://dx.doi.org/10.1071/MF03075

Resource locator

Show on SEED Web Map

Name: Show on SEED Web Map

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Display dataset on SEED's map

Function: download

Data Quality Statement

Name: Data Quality Statement

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Data quality statement for NSW Wetlands

Function: download

Biodiversity WetlandsNSW

Name: Biodiversity WetlandsNSW

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Download Shapefile

Function: download

WMS - NSW Wetlands

Name: WMS - NSW Wetlands

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Connect to Web Map Service (view in GIS)

Function: download

Connect to KML service (view in Google Earth)

Name: Connect to KML service (view in Google Earth)

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Connect to KML service (view in Google Earth)

Function: download

Connect to REST Service (JSON, SOAP)

Name: Connect to REST Service (JSON, SOAP)

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

NSW Wetlands - REST

Function: download

Unique resource identifier

Code	36c734bd-1c9c-40b9-966a-0ad0f7500a09
Presentation form	Map digital
Edition	1
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/36c734bd-1c9c-40b9-966a-0ad0f7500a09
Purpose	Wetland distribution
Status	Completed

Spatial representation

Type	vector
Geometric Object Type	curve
Geometric Object Count	1

Spatial reference system

Code identifying the spatial reference system	4283

Spatial resolution	80 m
Additional information source	Kingsford, R., Brandis, K., Thomas, R., Crighton, P., Knowles, E. and Gale, E., 2004. Classifying landform at broad spatial scales: the distribution and conservation of wetlands in New South Wales, Australia. Marine and Freshwater Research 55, 17-31. http://dx.doi.org/10.1071/MF03075

Topic category

Keyword set

keyword value	WATER-Wetlands Wetlands
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	140
East bounding longitude	154
North bounding latitude	-38
South bounding latitude	-28

Vertical extent information

Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711

Temporal extent

Begin position	1987-01-06
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	Not planned
Contact info	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Lineage

The wetlands of the inland catchments were identified using unsupervised classification of Landsat MSS imagery on the basis of the presence of water. The wetlands of the coastal catchments were mapped with Landsat TM imagery. Wetlands were identified using a band 5 slice In both instances the thematic grid was vectorised using Arc/Info. Wetland areas were grouped a posteriori using ancillary attribute data such as aerial survey of wetland data, 1:250000 hard copy maps sheets, AUSLIG 250K waterbody theme, existing wetland maps. Each Landsat image scene was geometrically rectified and geocoded to UTM coordinates using topographic maps- 1:250000 scale for the inland catchments and 1:25,000 for the coastal catchments. A Root Mean Square Error of less than one was achieved for each image.Arc/Info was used to do topological consistency checks to detect flaws in the spatial data structure and to identify them as errors. This check ensures that all classified polygons are closed, nodes are formed at the intersection of lines, and that there is only one unique label within each. Multiple and dangling lines were also edited. All polygons were visually checked by draping over Landsat imagery using ERDAS Imagine to ensure that polygons were correctly coded.Both the unsupervised classification and band 5 slice is reliant on imagery being acquired at a wet period (some areas may have been missed because of dry imagery and/or cloud cover). Accuracy assessment was performed on both coastal and inland mapping.

Limitations on public access

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Metadata point of contact

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Metadata date

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Metadata language