

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 |
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Metadata date 2024-02-26T12:51:28.642592

Metadata language