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

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	mapDigital

Edition	1

Dataset language	eng

Metadata standard

Name	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata
Version	1.1

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/36c734bd-1c9c-40b9-966a-0ad0f7500a09

Purpose	Wetland distribution

Status	completed

Spatial representation

Type	vector

Spatial reference system

Authority code	GDA94 Geographic (Lat\Long)
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

Date type	publication
Effective date	2010-07-23
Date type	revision
Effective date	2011-08-04

Resource maintenance

Maintenance and update frequency	None

Contact info

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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	

Scope	dataset

Responsible party

Contact position	Data Broker
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Metadata point of contact

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Responsible party role	distributor

Metadata date

2003-01-01

Metadata language

eng