Title NSW inundation count dataset: all dates

Abstract

This raster dataset covers all of NSW and is a raw count of inundated pixel observations from all available Landsat acquisitions from mid 1984 to mid 2016. The dataset was produced by applying a water index to each Landsat scene using the technique developed by Fisher and Danaher (2016). Water indexed images were classified into inundated and not inundated classes using a threshold value of -10. Masking of cloud, cloud shadow and other erroneous pixels resulting from sensor anomalies was undertaken using the F-mask technique (Zhu and Woodcock 2012) and these pixels were allocated a 'no data' value . The classified images (with pixels allocated to 'inundated' or 'not inundated' or 'no data' classes) were then stacked and the number of inundated observations were counted for each pixel in available Landsat scenes. Known commission errors include areas of terrain shadow, building shadow especially in urban areas, and tall dense forest such as some pine plantations. Known omission errors include areas of greater vegetation cover. Potential users should note that inundated observations are only recorded for cloud free observation times and locations, thus inundation events on cloudy days may not have been detected.

Resource locator

<u>Data Quality</u> Statement Name: Data Quality Statement

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

Description:

Data quality statement for NSW inundation count dataset: all dates

Function: download

NSW Wetland
Inventory: Pilot
study mapping
and classification
method
statement

Name: NSW Wetland Inventory: Pilot study mapping and classification method

statement

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

Description:

This document outlines mapping methods trialled and developed for the NSW

Wetland Inventory Pilot project in the Lachlan River Catchment.

Function: download

NSW Inundation Count - All Dates Name: NSW Inundation Count - All Dates

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

Description:

Download Raster data package

Function: download

Unique resource identifier

Code eee463b9-fe82-4251-9149-05c63ec32841

Presentation form

imageDigital

Edition 1.0

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/eee463b9-fe82-4251-9149-05c63ec32841	
Purpose	spatial modelling - inundation, surface water, wetlands, biodiversity	
Status	underDevelopment	
Spatial representation type	grid	
Spatial referenc	e system	
Authority code	GDA94 Geographic (Lat\Long)	
Code identifying the spatial reference system	4283	
Spatial resolution	10 m	
Topic category		

Keyword set	
keyword value	inundation
	surface water
	wetlands
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	140.273438
East bounding longitude	153.984375
North bounding latitude	-37.662947
South bounding latitude	-28.087486
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	1984-06-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	None
Contact info	
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Full postal address	NSW
	Australia
	data.broker@environment.nsw.gov.au
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Responsible party role	pointOfContact

Limitations on public access

Scope dataset

Responsible party

Contact position Data Broker

Organisation name NSW Department of Climate Change, Energy, the Environment and Water

Full postal address NSW

Australia

data.broker@environment.nsw.gov.au

Telephone number 131555

Email address <u>data.broker@environment.nsw.gov.au</u>

Web address https://www.nsw.gov.au/departments-and-agencies/dcceew

Responsible party role pointOfContact

Metadata point of contact

Contact position Data Broker

Organisation name NSW Department of Climate Change, Energy, the Environment and Water

Full postal address NSW

Australia

data.broker@environment.nsw.gov.au

Telephone number 131555

Email address <u>data.broker@environment.nsw.gov.au</u>

Responsible party role distributor

Metadata date 2017-04-03

Metadata language eng