Title	Vegetation Map of the Bellingen Local Government Area, 2013. VIS_ID 4188
Alternative title(s)	BellingenLGA_2013_E_4188
Abstract	This dataset represents fine-scale floristic vegetation mapping within eastern freehold lands of the Bellingen Local Government Area. Vegetation has been categorized into communities, classes and formations, with the composition of respective vegetation species identified. Mapping was conducted by vegetation mapping 'experts' (NSW Office of Environment and Heritage) between September 2011 and December 2012, and was based on 3-D PLANAR modelling, aerial photography interpretation and field floristic assessment. VIS_ID 4188

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 Vegetation Map of the Bellingen Local Government Area, 2013. VIS_ID 4188 Function: download
Download Package	Name: Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data and Documents Function: download
REST Service	Name: REST Service Protocol: WWW:DOWNLOAD-1.0-http--download Description: ArcGIS REST Services Directory – provides a variety of interfaces for web browsers, GIS users and developers. Function: download
WMS	Name: WMS Protocol: WWW:DOWNLOAD-1.0-http--download Description: Web Map Service Function: download

Unique resource identifier

Code	999c3b31-fc25-4f7c-a7a3-fd499f82d8e1
Presentation	Map digital

form	
Edition	21/11/2014
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/999c3b31-fc25-4f7c-a7a3-fd499f82d8e1
Purpose	The dataset was primarily designed to identify vegetation communities to support Koala Habitat modelling and identification of potential EEC's for display and interpretation at scales no finer than 1:5,000. Non-natural areas, devoid of vegetation, have not been mapped. Various levels of attribute confidence are identified within the data's 'Reliability' attribute field. Users are reminded that the layer represents a model, and should only be regarded as an interpretation or prediction of real-world phenomena.
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	10 m
Additional information source	NSW Office of Environment and Heritage (2013). Plant Community Type Mapping (PCT) in the Bellingen Local Government Area. Office of Environment and Heritage, Coffs Harbour NSW Australia. These data supersede 2006 vegetation mapping of Bellingen LGA (coastal part): BellingenCoast_2006_E_85 BellingenCoastEECs_2006_E_84 BellingenCoastCondn_2006_E_86
Topic category	

Keyword set

keyword value	Bellingen Vegetation VIS Classification Vegetation Communities
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	152.77633
East bounding longitude	153.05677
North bounding latitude	-30.566788
South bounding latitude	-30.3405
NSW Place Name	Bellingen LGA

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	2012-12-20
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	As needed
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
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Responsible party role	pointOfContact

Lineage	Funding was made available for a Koala habitat study under the Saving out Species 'iconics' funding. The Koala habitat study required accurate and fine scale vegetation data to underpin the modelling of primary and secondary habitat values. The opportunity existed to upgrade both the linework and classification of the existing forest ecosystems map to match the current OEH standards in mapping and classification. This layer utilises improvements in aerial imagery (ADS40), an upgraded classification (NSW Vegetation Classification and Assessment) and developments in 3D stereo mapping environments. The study was designed in response to available funding and koala study priorities. The study area was tailored to the needs of the Koala Habitat study and covered 24 326ha of lowlands, coastal hills, escarpments and alluvial plains in the eastern part of the Bellingen LGA. Source data for this layer has two components, the floristic field based site data and the other being high resolution aerial photography and LiDAR. SITE DATA. At the beginning of the mapping study, 224 full floristic flora survey plots from previous studies occurred in the Bellingen LGA, with an additional 82 rapid floristic sites. However, in the study area (a priority subset of the LGA) there were 8 full floristic and 23 rapid (mostly canopy species) sites. This bias in the existing data made the initial stages of the project difficult and focusedon collecting field data to support the mapping. Thanks to participating landholders an additional 874 field API rapid data sites were collected during the project (canopy species and some lower strata, PCT id sites) on non-public lands. AERIAL PHOTOGRAPHY (ADS40) and LiDAR. The NSW Land and Property Information (LPI) captures airborne ADS40 4-band digital imagery at 50cm resolution for most of NSW. The Macksville and Nambucca (April 09) 1:100k tile, the Dorrigo (September 09) 1:100k and the Coffs Harbour (September 09) 1:100k covered the Bellingen LGA study area. Two levels of imagery were utilised for the project, the 4-band 2-dimensional orthorectified images and the Level 1 Rectified stereo image pair strips. The Level 1 data was used for 3-dimensional mapping in an ArcGIS stereo environment. LiDAR, also captured by LPI was utilised as 2D contextual data to help guide mapping decisions and to convert mapping data to 3D format. LiDAR only covered the eastern portion of the LGA and thus ADS40 derived elevation data was used where LiDAR was absent. MAPPING PROCESS. Mapping was conducted by API/botanical experts in a stereo view workstation comprising of PLANAR monitors, ESRI ArcMap software and ERDAS Stereo Analyst software. The environment allows the direct delineation and attribution of polygons in 3D stereo view (Level 1 imagery) whilst simultaneously having a 2D context view and any number of additional datasets to guide mapping decisions. Interpreters used a detailed Bellingen LGA landcover layer as the starting point for each tile as an efficiency for the process. Interpreters had at their disposal all site data (31 sites) in 3D. Interpreters routinely collected field check points with GPS to help extrapolate across areas of difficult interpretability. A total of 874 check points were collected for the project where public access was permissible. The mapping was conducted at on screen at a range of scales but the final reference scale is deemed to be 1:5000. Linework was digitised using live streaming with a stream tolerance average of 5 metres ie a vertex every 5 metres. The study area was divided into 9 tiles for stereo mapping and the interpreters cross referenced each other whenever possible to help guide the consistency of mapping decisions. The tiles were stitched together in GIS and interpreters then reviewed the edges and remapped any inconsistencies. A final quality review of the stitched map was conducted by examining each community in isolation and reviewing it for errors and ecological distribution anomalies. This review process fed back in further refinements and edits. Overall, the linework is very accurate as it is based upon the Bellingen LGA land cover layer. Minimal discrepancies were found between 3D and 2D spatial accuracies
Limitations on public access	

Scope	dataset

DQ Completeness Commission

Effective date	2017-01-01

DQ Completeness Omission

Effective date	2017-01-01

DQ Conceptual Consistency

Effective date	2017-01-01
Explanation	Geometry Appropriateness: Vegetation communities are delineated as polygons, suitable for the intended interpretation at property-level scales

DQ Topological Consistency

Effective date	2017-01-01
Explanation	Topology validation was performed with a tolerance of 0.2 metres and all subsequent gaps and overlapping polygons fixed. Topology is correct.

DQ Absolute External Positional Accuracy

Effective date	1901-01-01
Explanation	not assessed

DQ Non Quantitative Attribute Correctness

Effective date	2017-01-01
Explanation	Qualitative attribution used consistently

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

2024-02-26T13:18:47.337145

Metadata language