Title	NSW Urban Vegetation Cover to Modified Mesh Block 2016
Alternative title(s)	Urban Vegetation Cover to the ABS Modified Mesh Block, 2016, Sydney Greater Metropolitan Area
Abstract	The NSW Urban Vegetation Cover to Modified Mesh Block 2016 provides both an area and percentage of vegetation for city blocks and infrastructure corridors in the Sydney Greater Metropolitan Area as of 2016. With this dataset, users can estimate tree canopy and vegetation cover in urban areas at many scales, such as mesh block, precinct, or local government area. Having current and accurate estimates of tree canopy and vegetation like this supports citizens and governments to reliably identify areas of tree canopy and confidently develop urban greening and heat island mitigation strategies and action. This dataset provides the user with information of high spatial accuracy. The dataset uses vegetation information derived from high resolution aerial photography combined with boundary and land use information from the Australian Bureau of Statistics (ABS) Mesh Block polygon dataset augmented with road and railroad data from the NSW Digital Cadastral Database. The content was co-designed with state and local governments and developed using scientifically-rigorous methodologies. The extent of the dataset covers urban, major urban, peri-urban and other urban areas within the Sydney Greater Metropolitan. While the dataset provides wall to wall coverage of many councils, it does not include far outlying rural areas in local government areas with a largely rural component.
Resource loca	tor
Data Quality	Name: Data Quality Statement
<u>Statement</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data quality statement for NSW Urban Vegetation Cover to Modified Mesh Block 2016
	Function: download
User guide for	Name: User guide for OEH urban heat and green cover datasets
<u>OEH urban</u> <u>heat and green</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
cover datasets	Description:
	Guidance and data description for use by NSW Local Government Areas for local environmental planning. This document contains detailed guiding information on the use conditions and descriptions for the NSW Office of Environment and Heritage (OEH) urban heat and vegetation cover datasets, especially for use in support of multi-scale analysis (i.e., local government areas and regional).
	Function: download
<u>Download</u>	Name: Download Package
<u>Package</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data (Shapefile & Geodatabase)
	Function: download
ArcGIS Layer	Name: ArcGIS Layer files for mapping tree canopy and vegetation
files for mapping tree	Protocol: WWW:DOWNLOAD-1.0-httpdownload
canopy and vegetation	Description:
vegetation	Layer files for symbology when using ArcGIS/ArcMap v. 10.x for displaying the dataset. Layer files include All Vegetation, Shrubs & Trees only and Tree Canopy. Each layer file displays the percentage of each vegetation canopy group into five classes (less than 10%, 10% to 20%, 20% to 30%, 30% to 40% and greater than 40%) for the named vegetation attribute/field. Each class is a shade of green.
	Function: download
ArcGIS REST	Name: ArcGIS REST Service - NSW Urban Veg Cover

<u>Service - NSW</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload			
<u>Urban Veg</u> <u>Cover</u>	Description:			
	An ArcGIS Server web service represents a GIS resource—such as a map, locator, or image—that is located on an ArcGIS Server site and is made available to client applications. Depending on the layers enabled, this web service allows a user to query its features and/or visualise the dataset. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as ArcGIS/ArcMap.			
	Function: download			
<u>WMS - NSW</u> <u>Urban Veg</u>	Name: WMS - NSW Urban Veg Cover			
<u>Cover</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload			
	Description:			
	Web Map Service (WMS) is a standard protocol for serving georeferenced map images over the internet that are generated by a map server using data from a GIS Database (NSW Government - Spatial Web Services Register June 2015). WMS allows a user to spatially visualise the dataset, but not query its features. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as QGIS and ArcGIS/ArcMap			
	Function: download			
<u>Greater Sydney</u>	Name: Greater Sydney Canopy and Thermal Assessment 2014 and 2016			
<u>Canopy and</u> <u>Thermal</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload			
Assessment 2014 and 2016	Description:			
	This report describes the production of the information derived from digital aerial photography, satellite thermal and other data for environmental and other assessments for the Greater Sydney area, New South Wales, Australia. This includes the generation of baseline information on elevations, ground reflectance, presence of vegetation and its height, and accompanying meta-data. Historic data acquired in 2016 was used representing a relatively recent capture with large geographic coverage, and data acquired from 2014 used as a caparitor year over regions of interest. The information was generated using Urban Monitor® technology developed by the CSIRO. The spatial information produced supports further analysis by State, Local, Commonwealth and other agencies and research organisations involved in greenspace and other assessments. The digital data has been provided to enable it to be combined with other datasets.			
	Function: download			
Unique resource identifier				
 Code	46074093-2f84-460b-b87b-7bffc2d98a90			
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/46074093-2f84-460b-b87b-7bffc2d98a90			
Purpose	urban and environmental planning, vegetation/tree cover analysis			
Status	Completed			

Spatial representation		
Туре	vector	
Spatial referen	nce system	
Code identifying the spatial reference system	4283	
Spatial resolution	30 cm	
Additional information source	Greater Metropoli coverage for the r GMA. This means	extent covers the ABS Significant Urban Area (SUA) of the Sydney tan Area. The extent of the SUA means complete and consistent major urban, urban, peri-urban and other urban areas of the Sydney that there is limited coverage for rural areas, primarily in many of neavily rural Local Government Areas within the Greater Metropolitan
Topic categor	у	
Keyword set		
keyword value		VEGETATION
		HUMAN-ENVIRONMENT-Urban-Design
		HUMAN-ENVIRONMENT-Livability
		HUMAN-ENVIRONMENT-Planning
		LAND-Cadastre
		LAND-Cover
		LAND-Use
Originating contr	olled vocabulary	
Title		ANZLIC Search Words
Reference date		2008-05-16
Geographic lo	cation	
West bounding lo	ongitude	150.161133
East bounding lo	ngitude	151.875
North bounding latitude		-34.732584
South bounding I	atitude	-32.934929
NSW Place Name	9	Sydney Greater Metropolitan Area, Significant Urban Area
Vertical extent information		
Minimum value		-100
Maximum value		2228
Coordinate refere	ence system	
Authority code		urn:ogc:def:cs:EPSG::
	the coordinate reference	-

system		5/11
Temporal	extent	
Begin positi	on	2016-01-01
End position		N/A
Dataset re	eference date	
Resource	maintenance	
Maintenance	e 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 addr	ress	data.broker@environment.nsw.gov.au
Web addre	255	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsib	le party role	pointOfContact
Lineage	at sub-meter accuracy, de Technology (RMIT). The d Cover 2016 raster imager Block, modified with the r The vegetation cover rast through a reclassification using Commonwealth Scie methodology. The analysi ensure minimal cloud cov extends many months act area extent. Quality contr development of the data Vegetation Cover 2016 we dataset of the NSW Digita raster cover classification elevation differences from metres), shrub (0.5 to 3 n metres) and non-vegetati performed with the assist vegetation composition w	on Cover to Modified Mesh Block 2016 is a vector polygon dataset eveloped through a contract with the Royal Melbourne Institute of ataset is derived from the overlay of the NSW Urban Vegetation ry dataset with the Australian Bureau of Statistics (ABS) Mesh oad and railroad datasets of the NSW Digital Cadastral Database. ter imagery dataset was produced as a digital surface model of high resolution (30 cm) digital aerial photography analysed ence and Industry Research Organisation's (CSIRO) Urban Monitor is was conducted by CSIRO in 2018. Attention was provided to rerage on the aerial photographs, and as a result, the flight date ross 2016 to capture acceptable imagery for the full project study rol of the data was conducted continuously throughout the and included inspection of results and integrity testing. The Urban as overlayed with the ABS Mesh Block and the road and railroad al Cadastral Database (extraction dated 1/11/2016). The vegetation of distinguishes six classes by analysing the spectral signature and in the height of the feature to ground level - grass (less than 0.5 netres), trees (3 to 10 metres, 10 to 15 meters and greater than 19 on. Integration of the raster data with mesh block polygons was ance of Western Australia University. This process analysed the ithin each area and derived a quantum of each vegetation class in cent of each class by polygon. The final product was delivered to tions.

Limitations on public access

Scope	dataset		
DQ Completeness Commission			
Effective date	2019-01-15		
Explanation	The dataset has complete coverage for the designated Significant Urban Area of Sydney Greater Metropolitan Area and the major urban, urban, peri-urban and other urban areas of the included Local Government Areas. The Significant Urban Area sections that lie within the Lower Hunter, Central Coast, Greater Sydney and Illawarra Regions of Eastern/Coastal New South Wales, Australia are also included.		
DQ Completene	DQ Completeness Omission		
Effective date	2019-01-15		
Explanation	The dataset has complete coverage for the designated Significant Urban Area of Sydney Greater Metropolitan Area and the major urban, urban, peri-urban and other urban areas of the included Local Government Areas. As such it does not provide complete coverage to LGAs which have rural areas and may not include large areas devoted to national parks. This is due to the limits of the extent and completeness omissions of the Urban Vegetation Cover 2016 raster dataset. Therefore, the dataset cannot provide complete land cover/vegetation cover analysis for all areas within every LGAs in the study area.		
DQ Conceptual	Consistency		
Effective date	2019-01-15		
Explanation	Local Government Area users of the data will need to double check that their known boundaries are correctly identified. In the dataset, the LGA name that is given to a Modified Mesh Block may be inaccurate, due to the modified Mesh Blocks boundaries not nesting within the LGA boundaries completely. The LGA boundaries were overlaid with the Modified Mesh Blocks polygons and the LGA names were assigned to the Mesh Block with the greatest area within it. Note 2017 LGA boundaries were used. The knock on effect is that the Mesh Block may not correspond to the correct District. This issue most likely occurs with more rural Mesh Blocks at the boundaries, such as near Campbelltown, Wollondilly or Sutherland. It may also occur where roads form a boundary between LGAs. As adequate data validation was performed, this issue is likely minor and not affecting every LGA.		
DQ Topological	Consistency		
Effective date	2019-01-15		
Explanation	The dataset is deemed correct and consistent to the parameters of the Urban Monitor methodology, and the consistency of the NSW Digital Cadastral Database		
DQ Absolute Ex	ternal Positional Accuracy		
Effective date	2019-01-15		
Explanation	98% of the features are expected to be within 2% of their true size and shape.		
DQ Non Quantii	tative Attribute Correctness		
Effective date	2019-01-15		
Explanation	Non-quantitative attributes are deemed to be accurate as of the date of the review (15/01/2019) and by explanations provided in the source datasets.		

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				
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 date	2024-02-26T13:22:50.880245			
Metadata language				