Title	Midcoast Council - Likely and Occupied Koala Habitat for Kundle, Khappinghat and Tea Gardens study areas.
Abstract	The spatial data maps koala populations and habitat for three study areas in the Midcoast LGA of New South Wales. The three study areas, Kundle, Khappinghat and Tea Gardens are geographically separate, and each are approximately 16, 000 hectares and square or rectangular in shape. The data maps both 'Likely koala habitat' and Occupied koala habitat' on all lands except NPWS Estate and Forestry Corporation of NSW estate. 'Likely koala habitat' occurs where there is greater than 15% dominance of preferred koala food trees. 'Occupied koala habitat' is a spatial subset of 'Likely koala habitat' where koala populations are currently viable based upon known presence and their generational persistence over time. The maps were produced under the NSW Government's Koala Strategy in collaboration with Midcoast Council to inform Council's 2024 MidCoast Koala Conservation Strategy.

Resource locator

Data Quality Statement	Name: Data Quality Statement
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Data quality statement for Midcoast Council - Likely and Occupied Koala Habitat for Kundle, Khappinghat and Tea Gardens study areas.
	Function: download
Download Package	Name: Download Package
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Data (Shapefile format) Koala habitat maps for three study areas within Midcoast Local Government Area: Kundle, Khappinghat and Tea Gardens. For each study area there are two classes of map, one is 'Likely Habitat' where known food trees are in abundance and 'Occupied Habitat" that are areas within the 'Likely Habitat' that support persistent koala populations.
	Function: download
Koala Conservation Strategy	Name: Koala Conservation Strategy
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	MidCoast Koala Conservation Strategy
	Function: download

Unique resource identifier

Code	dec4e102-138c-48e9-a314-2ef7d7cc1cc0
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/dec4e102-138c-48e9-a314-2ef7d7cc1cc0

Purpose	Regulatory protections of koala populations and their habitat
Status	Completed
Spatial representation	
Type	vector
Spatial reference system	
Code identifying the spatial reference system	4283
Spatial resolution	10 m
Topic category	

Keyword set

keyword value	ECOLOGY-Habitat
	FAUNA-Native
	ECOLOGY-Ecosystem
	FORESTS-Natural

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	152.06117
East bounding longitude	152.59369
North bounding latitude	-32.69278
South bounding latitude	-31.76818
NSW Place Name	Midcoast 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	2023-11-23
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
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

| Lineage | The first step in deriving the mapping data was to determine study areas and they were identified by Midcoast council for this project. These areas are referred to as Kundle, Khappinghat and Tea Gardens and each are approximately 16, 000 hectares and square or rectangular in shape. 'Likley koala habitat' was derived using plant community type (PCT) data to assess the mix and percentage of koala trees within each PCT to determine if the habitat is suitable. Where the PCT has a greater than 15% dominance of koala trees then the PCT is tagged as 'Likely habitat'. PCT modelling was used to delineate these areas and required fine scale refinement to correct for misclassification and to match current extant vegetation boundaries. The resulting 'Likely Habitat' maps for the three study areas contain 45 PCT's. To determine koala occupancy ('Occupied koala habitat') an analysis of all koala records across the study area was undertaken to determine past and present occurrence of a koala populations. Initially, a gap analysis of koala records was required to identify areas that required survey. As a result of the gap analysis, site surveys for koala presence were undertaken at 66 pre-selected sites and an additional 60 opportunistic sites across the 3 priority study sites. Site surveys commenced in early April 2023 and finished in mid-December 2023. The data from additional survey sites were undertaken post mid December 2023. Including existing records, there were a total of 3,358 koala records in the three study areas that were available for use in the occupancy analysis. The occupancy method requires the records to be attributed with generational time frames and that was done for 6 year generations i.e., generation 1 (0-6 years ago), generation 2 (6-12 years ago) and generation 3 (12-18 years ago) . All the koala records across the last 3 generations were assessed within 2.5km grid cells across the study areas to determine areas that demonstrated historical and present occupancy. Grid squares are tagged as 'occupied' where the following combinations of generations were present: • generation 1 and generation 2 • generation 1 and generation 3 • generation 2 and generation 3 • generations 1,2 and 3 By combining the 'Likely koala habitat' map and the koala occupancy data, an 'Occupied koala habitat' map is derived by extracting all the 'Likely Koala habitat' polygons from the grid squares that qualified as having generational persistence. |

| 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
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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Responsible party role	pointOfContact

| Metadata date | 2024-11-20T03:36:50.864990 |

| Metadata language | |