

Title	NSW Koala Likelihood Map v2.0 (August 2019)
Alternative title(s)	KLM v2.0
Abstract	<p>The Koala Likelihood Map (KLM) predicts the likelihood of finding a koala relative to other arboreal mammals across a 10-km grid covering NSW. It is built using existing arboreal mammal records from the past 20 years (currently 1999 to 2019) and represents the likelihood of koalas as the proportion of all records within a grid cell that are koalas. The records of other arboreal mammals provide a measure of survey effort independent of koalas and allow identification of areas where other arboreal mammals have been recorded, but not koalas. The map also includes a measure of the confidence in the koala likelihood estimate. This enables deficiencies in the data to be highlighted, and recommendations to be made for areas requiring further survey. The KLM is a useful tool that can be used to inform a range of koala conservation and management issues, however it is not static and should be updated regularly as new data become available.</p> <p>The KLM was first developed in 2014 for use in private native forestry regulation, on behalf of the NSW Environment Protection Authority. An updated and refined version of the map (NSW Koala Baseline Likelihood Map 2016) was produced in 2016 and has been used to inform provisions for koala protection under the Coastal Integrated Forestry Operations Approvals and is planned to inform the future review of the Private Native Forestry Code of Practice.</p> <p>This latest version of the KLM (v2.0 August 2019) includes new data from BioNet and Spot Assessment Technique (SAT) survey databases, as well as SAT data from a targeted state-wide field survey program.</p> <p>The KLM v2.0 (August 2019) is delivered under the NSW Koala Strategy's Koala Habitat Information Base. This comprises several layers of spatial information, including: Koala Habitat Suitability Model (KHSM) – the probability of finding koala habitat at any location; Koala Tree Suitability Index (KTSI) – the probability of finding a tree species that koalas are known to use for food or shelter; Koala Likelihood Map (KLM) including a confidence layer – predicts the likelihood of finding a koala at a location; Areas of Regional Koala Significance (ARKS) – identifies key koala populations and management areas with potential for long-term viability as well as priority threats to key koala populations; Native vegetation of NSW – this is a high-resolution map of native tree cover and water bodies; and all koala sightings recorded in NSW Bionet.</p> <p>All Koala Habitat Information Base (KHIB) datasets are available for download below under 'Dataset Relationship'.</p>
Resource locator	
<a href="#">Show on SEED Web Map</a>	<p>Name: Show on SEED Web Map</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Display dataset on SEED's map</p> <p>Function: download</p>
<a href="#">Data Quality Statement</a>	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data quality statement for NSW Koala Likelihood Map v2.0 (August 2019)</p> <p>Function: download</p>
<a href="#">Download Package</a>	<p>Name: Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Shapefile Data (NSW Koala Likelihood Map v2.0 (August 2019))</p> <p>Function: download</p>
<a href="#">NSW Koala</a>	<p>Name: NSW Koala Baseline Likelihood Map 2016</p>

[Baseline Likelihood Map 2016](#)

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

Description:

Link to 2016 version of the NSW Koala Likelihood Map

Function: download

[ArcGIS REST Services Directory - NSW Koala Likelihood Map v2.0 \(August 2019\)](#)

Name: ArcGIS REST Services Directory - NSW Koala Likelihood Map v2.0 (August 2019)

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

Description:

ArcGIS REST Services Directory - provides a variety of interfaces for web browsers, GIS users and developers, to view maps.

Function: download

[WMS - NSW Koala Likelihood Map v2.0 \(August 2019\)](#)

Name: WMS - NSW Koala Likelihood Map v2.0 (August 2019)

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

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

## Unique resource identifier

Code 1cd5808c-e4df-4a61-8cc1-09b8f0d76344

Presentation form Map digital

Edition 2.0 (August 2019)

Dataset language English

## Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/1cd5808c-e4df-4a61-8cc1-09b8f0d76344>

Purpose To aid with the conservation and management of koalas

Status Required

## Spatial representation

Type vector

## Spatial reference system

Code identifying the spatial reference system 4283

<b>Spatial resolution</b>	10 km
<b>Additional information source</b>	Predavec, M., Lunney, D., Shannon, I., Scotts, D., Turbill, J., and Faulkner, B. (2015). Mapping the likelihood of koalas across New South Wales for use in Private Native Forestry: developing a simple, species distribution model that deals with opportunistic data. Australian Mammalogy 37, 182–193.
<b>Topic category</b>	

<b>Keyword set</b>	
keyword value	ECOLOGY FAUNA-Native
<b>Originating controlled vocabulary</b>	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
West bounding longitude	140.99928
East bounding longitude	153.63883
North bounding latitude	-37.50508
South bounding latitude	-28.15702
NSW Place Name	State of NSW
<b>Vertical extent information</b>	
Minimum value	-100
Maximum value	2228
<b>Coordinate reference system</b>	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
<b>Temporal extent</b>	
Begin position	1999-01-01
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	Unknown
<b>Contact info</b>	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact

Lineage	The map is built using existing koala records and records of 8 species of other arboreal mammals from approximately the past 20 years (currently January 1999 to August 2019). Records were obtained from NSW BioNet and other independent sources, e.g. Spot Assessment Technique (SAT) survey databases. SAT data resulting from a state-wide field survey program designed to update the map were also included (this data will be made available in BioNet in late 2019). Where SAT datasets were included, the koala absence data (i.e. indicating the survey sites where koalas weren't found) were used in place of other arboreal mammal records as the measure of survey effort. A filtering process was implemented to reduce some of the inherent biases in the BioNet data. These data form the basis of the estimates of the likelihood of finding a koala across NSW and the confidence in the estimates.	
Limitations on public access		
Scope	dataset	
DQ Completeness Commission		
Effective date	2019-08-12	
Explanation	The assessment covers all of NSW. The map includes areas that include no records of koalas or of other arboreal mammals. These grid cells are identified in the map layer (p = 999, Confidence = No Data). The lack of data in these grid cells is noted and incorporated into the final mapping.	
DQ Completeness Omission		
Effective date	2019-08-12	
Explanation	The assessment covers all of NSW. The map includes areas that include no records of koalas or of other arboreal mammals. These grid cells are identified in the map layer (p = 999, Confidence = No Data). The lack of data in these grid cells is noted and incorporated into the final mapping.	
DQ Conceptual Consistency		
Effective date	2019-08-12	
Explanation	The estimate of the likelihood of koalas for each grid cell should be viewed relative to each other and not as absolute numbers.	
DQ Absolute External Positional Accuracy		
Effective date	2019-08-12	
Explanation	Records in NSW BioNet include a spatial accuracy field. Only records with a spatial accuracy less than or equal to 10 kilometre (the size of the spatial grid used in the state-wide assessment) were used in the preparation of the map.	
DQ Non Quantitative Attribute Correctness		
Effective date	2019-08-12	
Explanation	The map includes a relative measure of the accuracy of the koala likelihood estimates based on a 95% confidence interval.	

Responsible party	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
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	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact
Metadata date	2024-02-26T13:39:55.532388
Metadata language	