

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	
Data Quality Statement	<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>
Download Package	<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>
NSW Koala Baseline Likelihood Map 2016	<p>Name: NSW Koala Baseline Likelihood Map 2016</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Link to 2016 version of the NSW Koala Likelihood Map</p> <p>Function: download</p>
ArcGIS REST	<p>Name: ArcGIS REST Services Directory - NSW Koala Likelihood Map v2.0 (August 2019)</p>

[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 mapDigital

Edition 2.0 (August 2019)

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/1cd5808c-e4df-4a61-8cc1-09b8f0d76344>

Purpose To aid with the conservation and management of koalas

Status required

Spatial representation

Type vector

Spatial reference system

Authority code GDA94 / NSW Lambert

Code identifying the spatial reference system 4283

Spatial resolution 10 km

Additional 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

information source	Forestry: developing a simple, species distribution model that deals with opportunistic data. Australian Mammalogy 37, 182–193.
Topic category	
Keyword set	
keyword value	ECOLOGY FAUNA-Native
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
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
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	1999-01-01
End position	N/A
Dataset reference date	
Date type	publication
Effective date	2019-09-13
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
Lineage	<p>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.</p>
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	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
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	distributor
Metadata date	2019-07-19
Metadata language	eng