

## Title

NSW Koala Habitat Suitability Model 5m v1.1

## Abstract

This is a state-wide model of the potential of a given location to support koalas. Two versions of the model exist, a continuous model with habitat suitability values ranging from 0-1 (this product), and a classified version in which the continuous values have been grouped into classes representing very high quality habitat, through to very low quality and non-habitat. Note the original floating point raster has been converted to integer values between 0 to 10,000.

The Koala Habitat Suitability Model (KHSM) is one of the core products in the Koala Habitat Information Base (KHIB). It provides the current, best available state-wide prediction of potential koala habitat across NSW, encompassing the distribution of preferred trees and koala sightings.

The KHIB is a public resource intended to assist government agencies, local councils and private land holders with koala conservation decisions.

The Koala Habitat Suitability Models v1.1 are built off a predictive (MaxEnt) model, iteratively developed following a series of expert reviews. The KHSM was developed as a set of six regional models across eastern and central NSW that are referred to as Koala Modelling Regions (KMRs). These regional models capture variations in habitat quality at a regional scale that are driven largely by changes in the distribution of available food tree species. An additional MaxEnt model was developed to predict the westerly extent that koalas have the potential to occupy over the Darling Riverine Plains, Far West and Riverina KMRs.

Each of the models provide an indication of where animals have the potential to reside rather than where they do reside. Thus the term "habitat" refers to areas that koalas have the potential to occupy, but may not actually live.

The suitability scores from all seven models have been mosaicked together into a single state-wide product. This is available for download as a zipped 5m tif image readable in any spatial software package. An ArcGIS mxd is also supplied for suggested symbology.

All Koala Habitat Information Base datasets are available for download at the links below under 'Dataset relationship'.

For further information on the data layers and their development, please see the [Koala Habitat Information Base Technical Guide](#).

## Resource locator

### [Data Quality Statement](#)

Name: Data Quality Statement

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

Description:

Data quality statement for Koala Habitat Information Base: Habitat Suitability Models v1.0

Function: download

### [ArcGIS REST Services Directory - NSW Koala Habitat Suitability Models v1.0](#)

Name: ArcGIS REST Services Directory - NSW Koala Habitat Suitability Models v1.0

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 Habitat Suitability Models v1.0](#)

Name: WMS - NSW Koala Habitat Suitability Models v1.0

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

[Koala Habitat Suitability Model v1.1](#)

Name: Koala Habitat Suitability Model v1.1

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

Description:

Koala Habitat Suitability Model v1.1 (5m .tif) for NSW

Function: download

## Unique resource identifier

Code cd5c0bbd-cf61-49fc-916e-102c27cca2ac

Presentation form Map digital

Edition 1.1

Dataset language English

## Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://www.planningportal.nsw.gov.au/opendata/dataset/cd5c0bbd-cf61-49fc-916e-102c27cca2ac>

**Purpose** The Koala Habitat Information Base can help prioritise the establishment of new koala reserves and private land conservation agreements, ensure local actions are based on the best available information, and improve the management of threats and disease. It will be an important resource to assist government agencies, local councils and private land holders with koala conservation decisions. The Koala Habitat Information Base is not a regulatory instrument, meaning that the data layers do not categorise land for regulatory purposes. It does provide the best available scientific information to support decision makers, rehabilitators, land managers and community members involved in koala conservation

Status Completed

Spatial representation type grid

## Spatial reference system

Code identifying the spatial reference system 4283

Spatial resolution 30 m

Topic category environment

<b>Keyword set</b>	
keyword value	ECOLOGY-Habitat FAUNA-Native
<b>Originating controlled vocabulary</b>	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
NSW Place Name	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	1979-01-01
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	Unknown
<b>Contact info</b>	
Organisation name	Department of Planning and Environment
Responsible party role	pointOfContact
<b>Lineage</b>	Please see the attached technical guide and technical appendix for full lineage description.
<b>Constraint set</b>	
Use constraints	This data is provided under a Creative Commons Attribution 4.0 licence <a href="http://creativecommons.org/licenses/by/4.0">http://creativecommons.org/licenses/by/4.0</a> Attribute 'Department of Planning and Environment ' in publications using this data.
Limitations on public access	

Scope	dataset
<b>DQ Completeness Omission</b>	
Effective date	2019-08-31
Explanation	Complete
<b>DQ Conceptual Consistency</b>	
Effective date	2019-08-31
Explanation	Consistent
<b>DQ Topological Consistency</b>	
Effective date	2019-08-31
Explanation	Consistent
<b>DQ Absolute External Positional Accuracy</b>	
Effective date	2019-08-31
Explanation	Although derived at a 30m pixel and delivered at 5m, most of the drivers behind the model have been generated at a coarser scale.
<b>DQ Non Quantitative Attribute Correctness</b>	
Effective date	2019-08-31
Explanation	See technical guide for model validation metrics
<b>Responsible party</b>	
Contact position	Data Broker
Organisation name	Department of Planning and Environment
Responsible party role	pointOfContact
<b>Metadata point of contact</b>	
Contact position	Data Broker
Organisation name	Department of Planning and Environment
Responsible party role	distributor
<b>Metadata date</b>	2023-03-21T23:57:41.755693
<b>Metadata language</b>	