

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

[Show on SEED Web Map](#)

Name: Show on SEED Web Map

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

Description:

Display dataset on SEED's map

Function: download

[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](#)

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

[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 19230ef7-f45d-4a94-aaa7-14ff46e8550e

Presentation form Map digital

Edition 1.1

Dataset language English

Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/19230ef7-f45d-4a94-aaa7-14ff46e8550e>

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	
Keyword set	
keyword value	ECOLOGY-Habitat FAUNA-Native
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	140.976562
East bounding longitude	153.984375
North bounding latitude	-37.579413
South bounding latitude	-27.916767
NSW Place Name	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	1979-01-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Unknown
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	Please see the attached technical guide and technical appendix for full lineage description.

Limitations on public access

Scope dataset

DQ Completeness Omission

Effective date 2019-08-31

Explanation Complete

DQ Conceptual Consistency

Effective date 2019-08-31

Explanation Consistent

DQ Topological Consistency

Effective date 2019-08-31

Explanation Consistent

DQ Absolute External Positional Accuracy

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.

DQ Non Quantitative Attribute Correctness

Effective date 2019-08-31

Explanation See technical guide for model validation metrics

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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Metadata date 2024-02-26T13:39:17.323564

Metadata language