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 to10,000.

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 <u>Koala Habitat Information Base Technical Guide</u>.

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 y1.0 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.

Koala Habitat Suitability Model v1.1	Name: Koala Habitat Suitability Model v1.1 Protocol: WWW:DOWNLOAD-1.0-httpdownload 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 an 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	

Function: download

Keyword set			
keyword value	ECOLOGY-Habitat		
	FAUNA-Native		
Originating controlled vocabulary			
Title	ANZLIC Search Words		
Reference date	2008-05-16		
Geographic location			
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		
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		
Lineage Please see the attached t	echnical guide and technical appendix for full lineage description.		

Constraint set

Use constraints

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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

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 NSW Department of Climate Change, Energy, the Environment and Water Organisation name Full postal address NSW Australia data.broker@environment.nsw.gov.auTelephone number 131555 data.broker@environment.nsw.gov.au Email address Web address $\underline{https://www.nsw.gov.au/departments-and-agencies/dcceew}$ Responsible party role pointOfContactMetadata date 2024-02-26T13:39:20.296333

Metadata language