Title	Corridors - Cessnock LGA
Abstract	The Department of Planning provides support to Local Government to enable evidence-based planning decisions. Biodiversity and Conservation Division collaborated with Cessnock City Council in 2021-2022 to deliver environmental map layers (Environmental Lands Study) that facilitate council's review of their Local Environment Plan. This dataset is one of those and provides a scientifically valid structural connectivity analysis for the 196,468-hectare Cessnock Local Government Area (LGA) at fine/local scale using evidence-based data. The connectivity analysis was conducted at multiple raster scales then combined into a final vector format with accuracy commensurate to a scale range of 1:500 to 1:1000. This connectivity analysis is one aspect of biodiversity information that maps the current state of biodiversity movement at a scale that can inform local planning decisions. This dataset was derived using the Spatial Links analysis tool described in the mapping of habitat linkages study by M. Drielsma et al. (2007) because it overcomes some of the limitations of GAP CLoSR. The Spatial Links tool does not require nodes for patches because it can assess each cell in a patch as a start/endpoint. Additionally, Spatial Links overcomes any limitations of addressing the infinitely variable and complex spatial configuration of any landscape. A more detailed examination of the Spatial Links methodology compared to other analytical techniques is discussed in the detailed studies of connectivity for planning by M. J. Drielsma et al. (2022). This study adopted the 106 m gap-crossing threshold and overcame the singular 1100m maximum dispersal threshold by applying multiple scales that addressed a range of dispersal distances to cater for varying ecological traits of fauna and flora. The final dataset results from the Spatial Links analysis at fine scale across the Cessnock LGA buffered by 1km to avoid any abrupt termination of connectivity at the edges of the LGA.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Corridors - Cessnock LGA Function: download
Download Package	Name: Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data (Shapefile) Function: download

Unique resource identifier

Code	e5836276-4387-4d68-b837-e59b525481c7
Presentation form	Map digital
Edition	1
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/e5836276-4387-4d68-b837-e59b525481c7

Purpose	Biodiversity assessment and legislative planning.
Status	Completed

Spatial representation

Type	vector

Spatial reference system

Code identifying the spatial reference system	4283

Spatial resolution	10 m

Topic category

Keyword set

keyword value	ECOLOGY-Habitat
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	150.80129
East bounding longitude	151.62356
North bounding latitude	-33.13904
South bounding latitude	-32.65055

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	2022-01-04
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	As needed
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

This dataset was derived using the Spatial Links analysis tool described in the mapping of habitat linkages study by M. Drielsma et al. (2007) because it overcomes some of the limitations of GAP CLoSR. The Spatial Links tool does not require nodes for patches because it can assess each cell in a patch as a start/endpoint. Additionally, Spatial Links overcomes any limitations of addressing the infinitely variable and complex spatial configuration of any landscape. A more detailed examination of the Spatial Links methodology compared to other analytical techniques is discussed in the detailed studies of connectivity for planning by M. J. Drielsma et al. (2022). This study adopted the 106 m gap-crossing threshold and overcame the singular 1100m maximum dispersal threshold by applying multiple scales that addressed a range of dispersal distances to cater for varying ecological traits of fauna and flora. The final dataset results from the Spatial Links analysis at fine scale across the Cessnock LGA buffered by 1km to avoid any abrupt termination of connectivity at the edges of the LGA.

Limitations on public access

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

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Responsible party role	pointOfContact

Metadata date

2024-02-26T13:28:00.731448

Metadata language