Title	Identification of corridors of river recovery for NSW Lower North Coast catchments

| Abstract | By connecting corridors of river recovery, resilience can be built into river systems to mitigate against future floods and droughts driven by anthropogenic disturbance or climate extremes. This database can be used to systematically analyse where corridors of geomorphic river recovery could be created via conservation or rehabilitation. Analysis is undertaken in ArcGIS using the recovery potential layer of the Open Access NSW River Styles database that is available from DPIE (www.dpie.nsw.gov.au). The River Styles database was accessed in January 2021. The database and associated workflow identifies reach and loci connections based on different combinations of recovery potential classes. Reach connections are defined as an upstream to downstream section of river that is connected end-to-end, and loci connections are defined as isolated sections of river from which recovery can be seeded and extended into adjacent reaches. This map for all freshwater stream length of the NSW Lower North Coast catchments, shows the spatial distribution of thirteen connections based on combinations and sequences of conservation, strategic and high recovery potential targets. Other connections of interest to river practitioners can be identified and >80 different user-defined scenarios run using a workflow available at protocols.io.

Attribution to: Macquarie University, D Agnew and K Fryirs (2022) Corridors of river recovery database and workflow. Data accessed from The Sharing and Enabling Environmental Data Portal.

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This work is published in two Open Access papers:

- Agnew D, Fryirs K (2022) Identifying corridors of river recovery in coastal NSW Australia, for use in river management decision support and prioritisation systems. PLoS ONE 17(6): e0270285. https://doi.org/10.1371/journal.pone.0270285
- Agnew D, Graves BP, Fryirs K (2022) A GIS workflow for the identification of corridors of geomorphic river recovery across landscapes. PLoS ONE 17(12): e0278831. https://doi.org/10.1371/journal.pone.0278831

The workflow is available at: https://www.protocols.io/view/a-gis-workflow-for-the-identification-of-corridors-n2bvj8625gk5/v1 |

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
DQS - Identification of corridors of river recovery for NSW Lower North Coast catchments	Name: DQS - Identification of corridors of river recovery for NSW Lower North Coast catchments
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Data Quality Statement for the Identification of corridors of river recovery for NSW Lower North Coast catchments
	Function: download
Data Download for Lower North Coast	Name: Data Download for Lower North Coast
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	ZIP file contains a shapefile and .lyr file
	Function: download
REST service	Name: REST service

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

Description:

REST service for NSW Lower North Coast

Function: download

Unique resource identifier

Code	15076524-d695-4027-beb9-f3ca36b63f80

Presentation form	Map digital

Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/15076524-d695-4027-beb9-f3ca36b63f80

Purpose	This database provides practitioners with a user-friendly distillation of where river conservation and rehabilitation activities could be focussed when working with river recovery in practice. Combined with local on-ground knowledge or other data layers, this information forms an important input to evidence-based prioritisation and decision making in river management.

Status	Completed

Spatial representation

Type	vector

Spatial reference system

Code identifying the spatial reference system	4283

Topic category

Keyword set

keyword value	WATER-Rivers

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	151.16
East bounding longitude	152.75
North bounding latitude	-32.85
South bounding latitude	-31.28

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	
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	Not planned

Contact info

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Limitations on public access

Responsible party

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Metadata date

2023-04-28T06:41:09.051830

Metadata language