

Title	Identification of corridors of river recovery for NSW Sydney Metropolitan catchments
Abstract	<p>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 (<a href="http://www.dpie.nsw.gov.au">www.dpie.nsw.gov.au</a>). 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 Sydney Metropolitan 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 &gt;80 different user-defined scenarios run using a workflow available at <a href="http://protocols.io">protocols.io</a>.</p> <p>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.</p> <p>This work is funded by an Australian Research Council Linkage project based at Macquarie University with industry partners Landcare Australia and Hunter-Central Rivers Local Land Services.</p> <p>This work is published in two Open Access papers:</p> <ul style="list-style-type: none"> <li>• 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. <a href="https://doi.org/10.1371/journal.pone.0270285">https://doi.org/10.1371/journal.pone.0270285</a></li> <li>• 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. <a href="https://doi.org/10.1371/journal.pone.0278831">https://doi.org/10.1371/journal.pone.0278831</a></li> </ul> <p>The workflow is available at: <a href="https://www.protocols.io/view/a-gis-workflow-for-the-identification-of-corridors-n2bvj8625gk5/v1">https://www.protocols.io/view/a-gis-workflow-for-the-identification-of-corridors-n2bvj8625gk5/v1</a></p>
Resource locator	
<a href="#">Show on SEED Web Map</a>	<p>Name: Show on SEED Web Map</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Display dataset on SEED's map</p> <p>Function: download</p>
<a href="#">DQS - Identification of corridors of river recovery for NSW Sydney Metropolitan catchments</a>	<p>Name: DQS - Identification of corridors of river recovery for NSW Sydney Metropolitan catchments</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data Quality Statement for the Identification of corridors of river recovery for NSW Sydney Metropolitan catchments</p> <p>Function: download</p>
<a href="#">Data Download for Sydney Metropolitan</a>	<p>Name: Data Download for Sydney Metropolitan</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>ZIP file contains a shapefile and .lyr file</p> <p>Function: download</p>
<a href="#">REST service</a>	<p>Name: REST service</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p>

Description:  
REST service for NSW Sydney Metropolitan  
Function: download

## Unique resource identifier

Code 639d4df3-93c9-47c6-a205-9016ffabac34

Presentation form Map digital

Dataset language English

## Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/639d4df3-93c9-47c6-a205-9016ffabac34>

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	150.77
East bounding longitude	151.32
North bounding latitude	-34.26
South bounding latitude	-33.67
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	
Contact position	Data Broker
Organisation name	Macquarie University
Email address	<a href="mailto:kirstie.fryirs@mq.edu.au">kirstie.fryirs@mq.edu.au</a>
Responsible party role	pointOfContact
Limitations on public access	
Responsible party	
Contact position	Data Broker
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Responsible party role	pointOfContact

## Metadata point of contact

Contact position

Data Broker

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Responsible party role

pointOfContact

Metadata date

2023-04-28T06:43:01.780025

Metadata language