



Australian Research Data Commons

# Research Data Australia

## *Contributing Metadata*

PRESENTED BY

Melanie Barlow and Catherine Brady

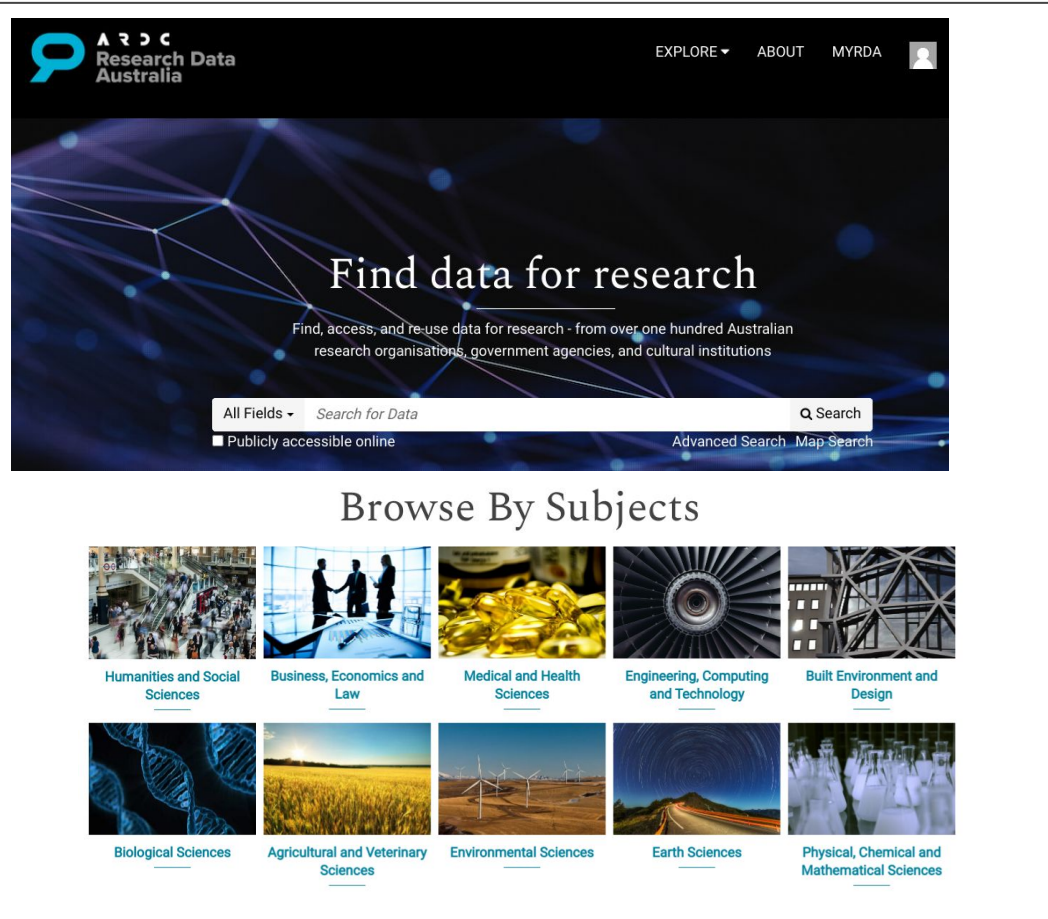
# This session covers

1. What is Research Data Australia?
2. How to find data in Research Data Australia
3. How to add metadata records to Research Data Australia
4. What makes a good metadata description
5. Why adding records to Research Data Australia is important



# Research Data Australia

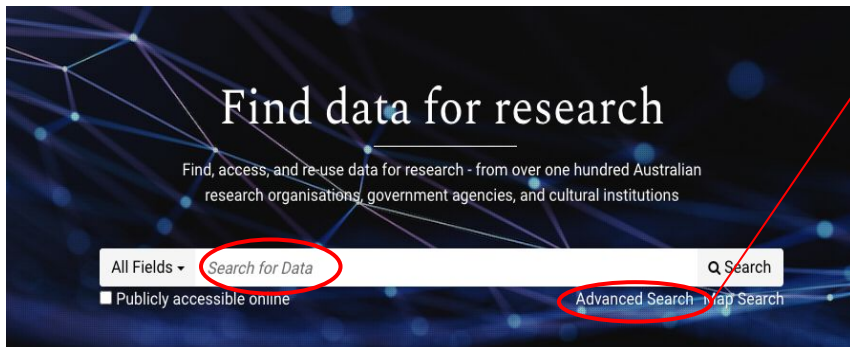
- Discovery portal for data (and services)
- Multidisciplinary
- Metadata only
- 177+K datasets
- 100 contributors



The screenshot shows the Research Data Australia website homepage. At the top left is the ARDC Research Data Australia logo. To the right are navigation links: EXPLORE, ABOUT, MYRDA, and a user profile icon. The main heading is "Find data for research" with a subtext: "Find, access, and re-use data for research - from over one hundred Australian research organisations, government agencies, and cultural institutions". Below this is a search bar with a dropdown menu set to "All Fields", a search input field containing "Search for Data", and a "Search" button. There are also links for "Publicly accessible online", "Advanced Search", and "Map Search". The section "Browse By Subjects" features ten subject categories, each with a representative image and a link:

- Humanities and Social Sciences
- Business, Economics and Law
- Medical and Health Sciences
- Engineering, Computing and Technology
- Built Environment and Design
- Biological Sciences
- Agricultural and Veterinary Sciences
- Environmental Sciences
- Earth Sciences
- Physical, Chemical and Mathematical Sciences

# Search for data in Research Data Australia



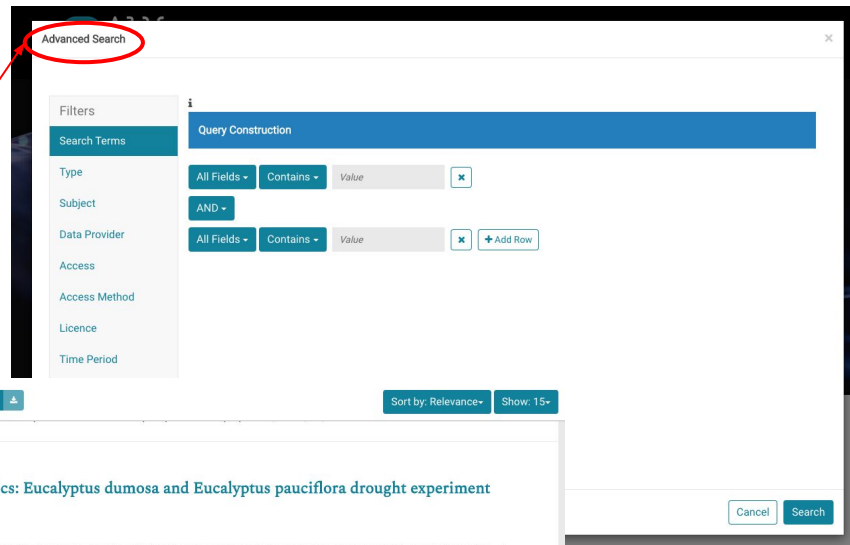
Find data for research

Find, access, and re-use data for research - from over one hundred Australian research organisations, government agencies, and cultural institutions

All Fields ▾ Search for Data 🔍 Search

Publicly accessible online

Advanced Search Map Search



Advanced Search

Filters

Search Terms

Type: All Fields ▾ Contains ▾ Value [x]

Subject: AND ▾

Data Provider: All Fields ▾ Contains ▾ Value [x] + Add Row

Access

Access Method

Licence

Time Period

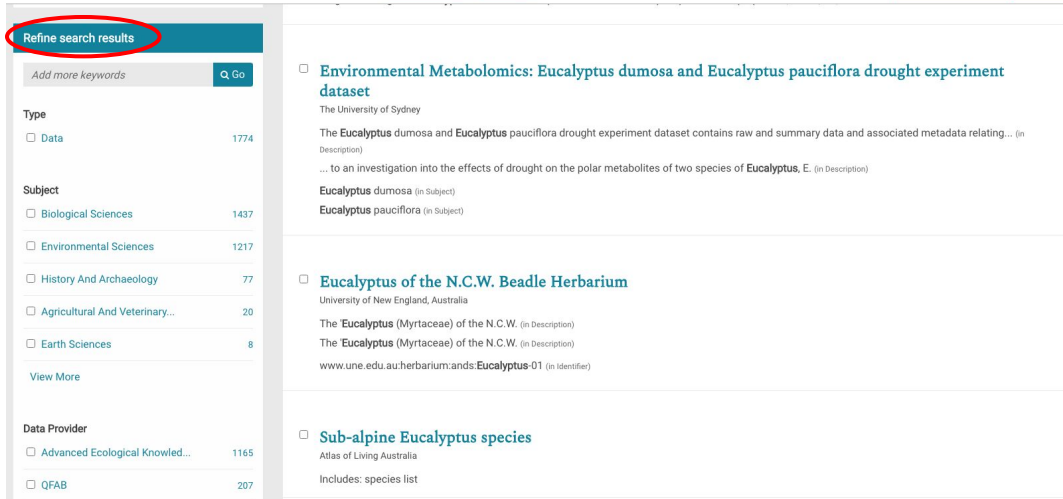
Query Construction

Cancel Search

1774 results (33 milliseconds)

Records selected: 0 Save Records [x] Export [x]

Sort by: Relevance+ Show: 15+



Refine search results

Add more keywords 🔍 Go

Type

- Data 1774

Subject

- Biological Sciences 1437
- Environmental Sciences 1217
- History And Archaeology 77
- Agricultural And Veterinary... 20
- Earth Sciences 8

View More

Data Provider

- Advanced Ecological Knowled... 1165
- QFAB 207

- Environmental Metabolomics: Eucalyptus dumosa and Eucalyptus pauciflora drought experiment dataset**  
The University of Sydney  
The **Eucalyptus dumosa** and **Eucalyptus pauciflora** drought experiment dataset contains raw and summary data and associated metadata relating... (in Description)  
... to an investigation into the effects of drought on the polar metabolites of two species of **Eucalyptus**, E. (in Description)  
**Eucalyptus dumosa** (in Subject)  
**Eucalyptus pauciflora** (in Subject)
- Eucalyptus of the N.C.W. Beadle Herbarium**  
University of New England, Australia  
The **Eucalyptus** (Myrtaceae) of the N.C.W. (in Description)  
The **Eucalyptus** (Myrtaceae) of the N.C.W. (in Description)  
www.une.edu.au/herbarium:ands:**Eucalyptus**-01 (in Identifier)
- Sub-alpine Eucalyptus species**  
Atlas of Living Australia  
Includes: species list



# Collection Record in Research Data Australia

**Research Data Australia**

**Dataset**

**Australian land-use and sustainability data: 2013 to 2050**

Commonwealth Scientific and Industrial Research Organisation

Bryan, Brett ; Nolan, Martin ; Brennan, Lisa ; Connor, Jeff ; Newth, David ; Harwood, Tom ; King, Darran ; Navarro Garcia, Javier ; Cai, Yiyong ; Gao, Lei ; Grundy, Mike ; Graham, Paul ; Ernst, Andreas ; Dunstall, Simon ; Stock, Florian ; Brinsmead, Thomas ; Harman, Ian ; Grigg, Nicky ; Battaglia, Michael ; Keating, Brian ; Wonhas, Alex ; Hatfield-Dodds, Steve

Viewed: 1468 Accessed: 92

**Similar datasets you may be interested in:**

- Land and Soil Capability Mapping for NSW
- AWRA Murray-Darling Basin Assessment 2010
- Great Soil Group (GSG) Soil Type map of NSW
- Australian Soil Classification (ASC) soil type map of NSW
- Reachout Cohort Study Trial data

**Access the data**

**Brief description**

Using the Land-Use Trade-Offs (LUTO) model, this data collection was produced via a comprehensive, detailed, integrated, and quantitative scenario analysis of land-use and sustainability for Australia's intensive-use agricultural land to 2050, under intersecting global change and domestic policies, and considering key uncertainties. We assessed land use competition between multiple land uses and assessed sustainability of economic returns and multiple ecosystem services at high spatial (1.1 km grid cell) and temporal (annual) resolution.

Results available are for 648 scenarios covering combinations of four global outlooks, three general circulation climate models, three domestic land-use policies, three productivity growth rates, three land-use change adoption hurdle rates, and two capacity constraint settings.

Outputs included for each scenario are:

- annual land-use layers
- summary data table

**Licence & Rights:**  
Non-Commercial Licence [view details](#)

**Access:**  
Open [view details](#)

[Cite](#) [Save to MyRDA](#)

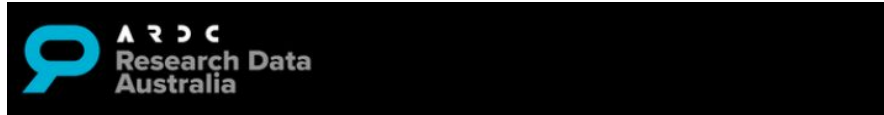
**See more Cultures and Communities data**

**See more Population Health Research Platforms data**





# Service record in Research Data Australia



## Alveo - A Virtual Lab for Human Communication Science

Western Sydney University

Associate Professor Steve Cassidy (Associated with) Doctor Dominique Estival (Associated with, Participant) Professor Denis Burnham (Associated with)

Viewed: 1765

[Access the service](#)

[Save to MyRDA](#)

### Licence & Rights

**CONDITIONAL** [View details](#)

### Contact Information

D.Estival@westernsydney.edu.au

### Full description

The Alveo Virtual Laboratory was developed through a NeCTAR-funded project led by Western Sydney University.

Alveo provides on-line infrastructure for accessing human communication data sets (speech, texts, music, video, etc.) and for using specialised tools for searching, analysing and annotating that data.

There are two methods of getting access to the Alveo Web Service; Direct Login or via the AAF (The Australian Access Federation) authorisation system.

### Data Discovery Interface

Browse and search collections, view documents and create lists of items for further analysis. The Data Discovery Interface provides the jumping-off point for further analysis using the Galaxy Workflow Engine, the NeCTAR Research Cloud, the R statistical package or any other preferred tool or platform. A fully featured API underpins the Data Discovery Interface, providing opportunities to extend the functionality of the Virtual Laboratory.

### Galaxy Workflow Engine






Initially targeted at genomics researchers, Galaxy is a scientific workflow system which is largely domain agnostic.



# Service links

 **Transform Alveo - A Virtual Lab for Human Communication Science**

## Related Data

-  Associated with International Corpus of English (Australia contribution is ICE-AUS)
-  Associated with The Audio-Video Australian-English Speech Data Corpus
-  Associated with PARADISEC collection
-  Associated with Australian National Corpus
-  Associated with Australian Corpus of English

[View all 7 related data](#)


## Related Organisations

-  Managed by [The MARCS Institute](#)
-  Managed by [Western Sydney University](#)

## Related People

-  Associated with [Associate Professor Steve Cassidy](#)
-  Associated with, Participant [Doctor Dominique Estival](#)
-  Associated with [Professor Denis Burnham](#)

## Related Websites

-  Associated with [Alveo - A Virtual Lab for Human Communication Science](#)  
<http://alveo.edu.au/>
-  Associated with [Introducing Alveo: The Human Communication Science Virtual Laboratory](#)  
<https://youtu.be/g4zK69BoP6w>





# Guide to contributing metadata content

## Research Data Australia Content Providers Guide

Documentation Home

This guide provides advice on how to encode RIF-CS metadata records to describe datasets (collections), researchers and research groups (parties), projects (activities) and tools (services) for display in Research Data Australia.



### Getting Started With Metadata

What is Metadata?

About RIF-CS

Research Data Australia Collection Policies

Get access to the RDA Registry

Provide metadata to the Registry



### Best Practice RIF-CS Metadata

All RIF-CS Elements

Describe a Collection

Describe a Party

Describe an Activity

Describe a Service

The RDA Content Providers Guide:

- For Contributors
- Non-technical guide
- Describes encoding requirements to submit records to the RDA Registry
- Describes best practice for metadata description for discovery



# What makes a good (data) collection metadata record?

While there is no 'one size fits all' for collection descriptions, a 'good' collection record might:

- have a globally unique persistent [identifier](#) such as a DOI
- provide access to, or information about [how to access](#), the data being described
- include [citation information](#) that clearly indicates how the data should be cited when reused
- include [licence](#) information that specifies how the data may be reused by others
- be connected via an identifier to [related outputs](#) such as publications and software that give context to the data
- be connected via an identifier or link to [people](#) and [projects](#) associated with the data to improve discovery
- be connected to [services](#) that can be used to access or manipulate the data
- include a [description](#) of how the data were created and how to interpret the data, to enable determination of the value of data, and reuse
- contain [subject](#) information to enhance discovery
- provide [spatial and temporal coverage](#) information that positions the data in space and time, and helps researchers find data that relates to a geographical area or time period of interest

# What makes a good Service metadata record?

While there is no 'one size fits all' for service descriptions, a 'good' service record might:

- include [name](#) variations where appropriate
- include [contact details](#) for a person or organisation
- include [access](#) information such as a URL
- include [rights](#) information including who may [access](#) and under what conditions
- include a [description](#) of the service for potential users including version, configuration or implementation information
- include a persistent [identifier](#) such as a handle
- include additional protocol information as [related information](#)
- include [subject](#) terms that describe the research focus of the service
- be [connected](#) to [collections](#) that can be accessed through, or acted upon, by the service
- include links to [related information](#) which provides research context around the service, e.g. a web page URL for the service

# Services: additional Metadata Guidance

home / content providers guide

## Beyond RIF-CS: Metadata for Services and related Collections: Good Practice Guide

home / content providers guide

## Beyond RIF-CS: Metadata for Services and related Collections: Good Practice Guide

Created by Catherine Brady, last modified on 15 Jan, 2020

### Introduction

Data services in the research domain support the use of research collections and datasets by providing automated functions for the creation, access, processing and analysis of data. More and more data providers are publishing their data through services. In Australia, for example, research organisations, science agencies, government departments and a number of national research infrastructure facilities are all moving to more formal publishing of data through services. Also, data consumers are increasingly accessing data services and connecting them with other services or tools (e.g. virtual laboratories) for data analysis, processing and visualisation.

Concepts, for data-services and related data	Requirement
<b>service URL</b> service identifier (if different from the URL)	Essential *
<b>service type: protocol and version</b> - e.g. 'wms 1.3' service-use documentation (if protocol is non-standard - e.g. URL to service description) <b>service type: function</b> (if protocol is non-standard - e.g. 'download')	Essential*
<b>service type: resource type</b> (e.g. 'service')	Essential
<b>data subject</b> (e.g. 'observedProperty', 'variableMeasured')	Essential
<b>service title</b>	Essential
<b>data spatial coverage</b>	Essential if available
<b>data geographic/projected CRS</b>	Essential if available
<b>data temporal coverage</b>	Essential if available
service description/ abstract	Recommended
data format	Recommended
service date (modified)	Recommended
service rights	Recommended
data rights	Recommended
data contributor/owner/publisher	Recommended
data language	Recommended
service language	Recommended
data identifying information - its text name, or an identifier such as a uuid or doi to a landing page	Recommended
service contributor/owner/publisher	Recommended

\* = essential for a minimum response



Australian Research Data Commons

<https://documentation.ardc.edu.au/display/DOC/Beyond+RIF-CS%3A+Metadata+for+Services+and+related+Collections%3A+Good+Practice+Guide>

# Contributors

- Australian organisations that provide metadata records to Research Data Australia (via the RDA Registry)
- 100 organisations currently
- Check if your organisation is already a contributor => <https://researchdata.edu.au/contributors>

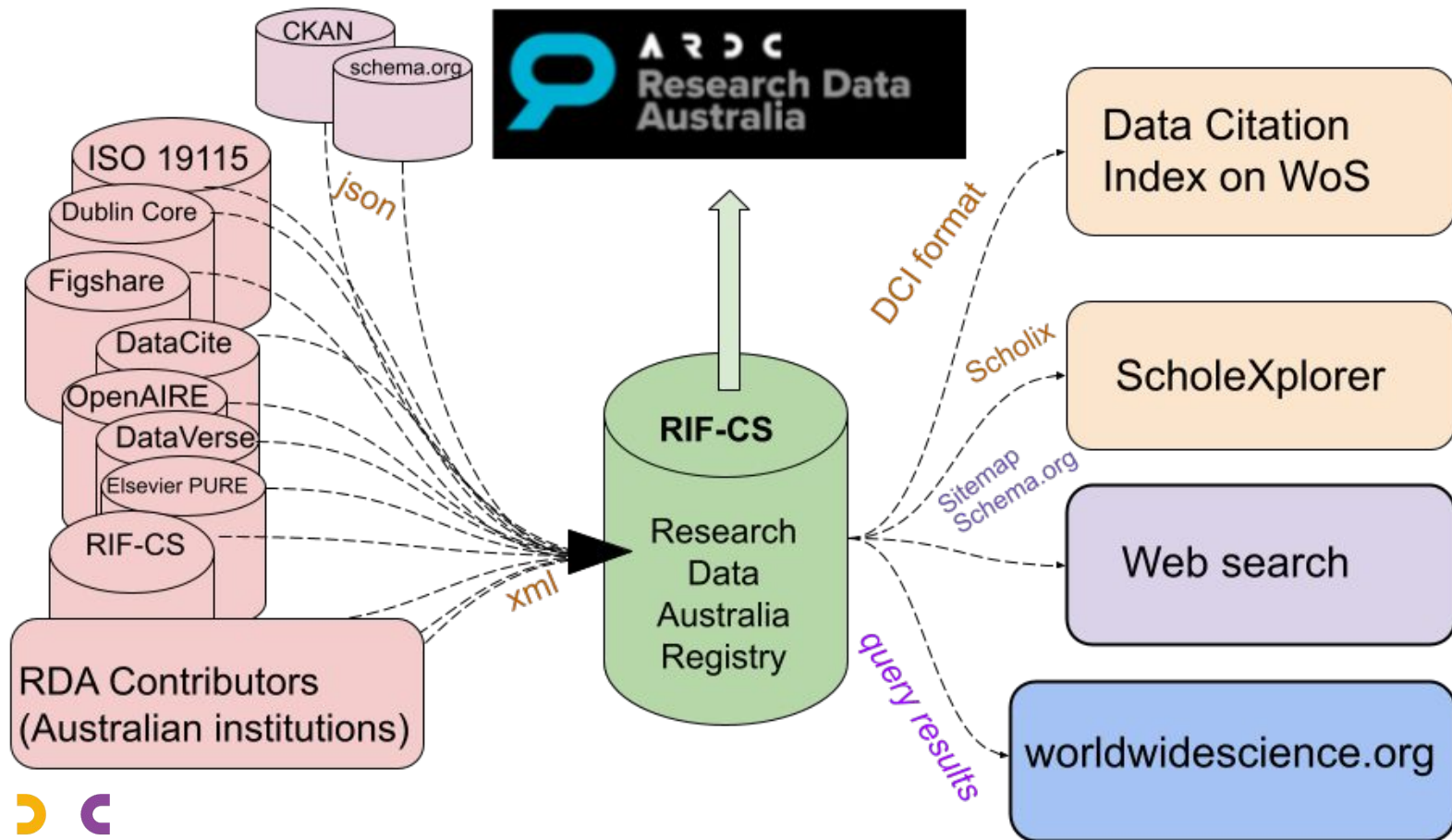
## Who Contributes to Research Data Australia

- Advanced Ecological Knowledge and Observation System
- Agricultural Research Federation (AgReFed)
- AMMRF
- Analysis and Policy Observatory
- ARC Centre of Excellence for Climate System Science
  - AsianLII
  - Atlas of Living Australia
  - AuScope
  - AusStage: Gateway to the Australian Performing Arts
  - AustLII
  - Australian Antarctic Data Centre
  - Australian Catholic University
  - Australian Coastal Ecosystems Facility
  - Australian Data Archive
  - Australian Institute of Health and Welfare
  - Australian Institute of Marine Science
  - Australian National Corpus
  - Australian Nuclear Science and Technology Organisation
  - Australian Ocean Data Network
  - Australian Synchrotron
  - Australian Urban Research Infrastructure Network (AURIN)
  - Australian Water Research and Development Coalition
    - BioGrid Australia Ltd
    - Bioplatforms Australia
    - BOM
    - BOND University
    - Breast Cancer Tissue Bank
    - Bureau of Meteorology
    - Central Queensland University
    - Centre for Magnetic Resonance
    - Charles Darwin University
- Charles Sturt University
- City Futures Research Centre, UNSW Sydney
- CLEX
- Commonwealth Scientific and Industrial Research Organisation
  - Curtin University
  - data.gov.au
  - data.nsw.gov.au
  - data.qld.gov.au
  - data.vic.gov.au
  - Deakin University
  - Desert Ecology Research Group
  - eAtlas
  - Edith Cowan University
  - Federation University Australia
  - Flinders University
  - Geoscience Australia
  - Global Proteome Machine Organization
  - Griffith University
  - Human Protein Atlas Consortium
  - Hydrology and Catchment Management
  - Integrated Marine Observing System
  - James Cook University
  - La Trobe University
  - Long Term Ecological Research Network
  - Macquarie University
  - med.data.edu.au
  - Monash University
  - Murdoch University
  - Museum Metadata Exchange
  - N2O Network
  - National Archives of Australia
  - National Computational Infrastructure
  - National Environmental Information Infrastructure
    - OzFlux: Australian and New Zealand Flux Research and Monitoring
- OzTrack
- PARADISEC
- Polar Information Commons
- Public Record Office Victoria
- Publish My Data
- QFAB
- Queensland Department of Agriculture, Fisheries and Forestry
- Queensland University of Technology
- RMIT University, Australia
- Seattle Proteome Center (SPC)
- SIB Swiss Institute of Bioinformatics
- Southern Cross University
- State Records Authority of New South Wales
- Swinburne University of Technology
- Tasmanian Partnership for Advanced Computing
- TERN Australian SuperSite Network
- Terrestrial Ecosystem Research Network
- The Australian National University
- The University of Adelaide
- The University of Melbourne
- The University of Newcastle, Australia
- The University of Queensland
- The University of Sydney
- The University of Western Australia
- University of Canberra
- University of New England, Australia
- University of New South Wales
- University of South Australia
- University of Southern Queensland
- University of Tasmania, Australia
- University of Technology Sydney
- University of the Sunshine Coast
- University of Wollongong
- Victoria University
- Western Sydney University

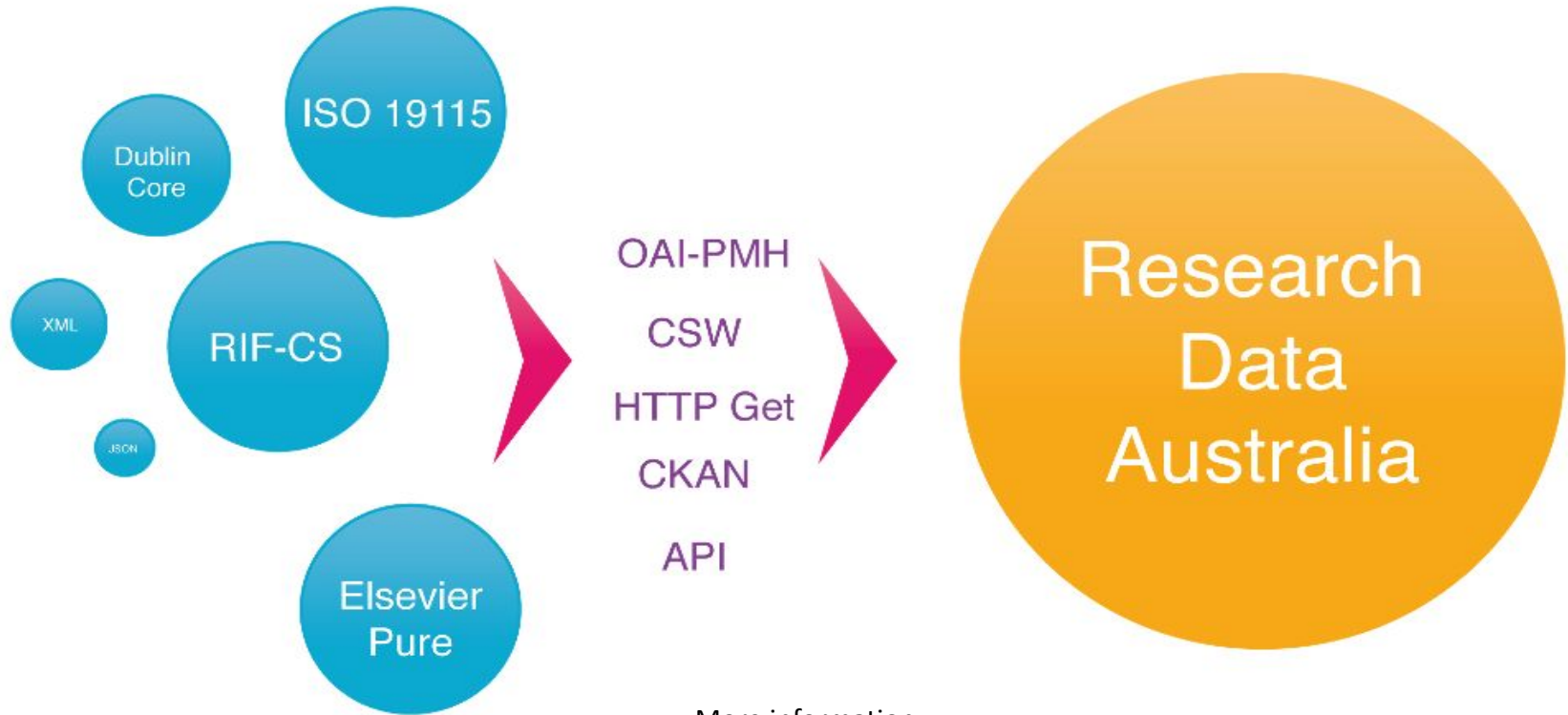




# Metadata Flows to and from Research Data Australia



# Metadata Flows and Protocols to Research Data Australia



More information:

<https://documentation.ardc.edu.au/display/DOC/Providing+metadata+records+to+Research+Data+Australia>



# Why would I do this?

- Enhances data discovery - through search engines and other syndicated services
- Provides context to the data and makes it clear how it can be used and under what circumstances
- Highlights data that is accessible via a service - links services to the data that supports it
- Provides links to further information, publications and contacts
- Enhances the potential for collaborative opportunities
- Encourages attribution through citation and disambiguation through the use of identifiers
- Can see page views and access statistics on Research Data Australia records



# What we can help you with

- Put you in contact with the right person in your institution
- Help you set up a metadata feed to Research Data Australia (and cross-walk to RIF-CS) if you don't already have one
- Help you with using the manual metadata entry web service (if you can't set up or use an existing metadata harvest)
- Provide you with guidance on optimising your data and service descriptions (metadata content)



# Resources & Links

- Search [Research Data Australia](#)
- Find [organisations](#) that contribute to Research Data Australia
- Provide [metadata records](#) to Research Data Australia
  - Create metadata records - use [Content Providers Guide](#)
    - Describe a [data collection](#) in a metadata record for Research Data Australia
    - Describe a [\(data\) service](#) in a metadata record for Research Data Australia
  - Transfer metadata records to the RDA Registry - requires [Online Services Account](#)
    - Via a [harvest](#)
    - Using the [manual entry web interface](#) (login required)







**Australian Research Data Commons**

## **CONTACT**

[services@ardc.edu.au](mailto:services@ardc.edu.au)  
[ardc.edu.au](http://ardc.edu.au)

# Providing Metadata Records to Research Data Australia

## Step 1 - Access Online Services

### Online Services User Guides

Documentation Home

Welcome to the Research Data Australia help. Watch the videos below to get yourself acquainted with the site, or explore the various topics describing datasets (collections), researchers and research groups (parties), projects (activities) and tools (services) displayed in Research Data Australia .

<https://documentation.ardc.edu.au/display/DOC/Online+Services+User+Guides>

RDA Registry

### Access Online Services

Getting an Online Services Account

How to Obtain an AAF Account

How to Login to Online Services



Australian Research Data Commons



<https://demo.researchdata.ardc.edu.au>

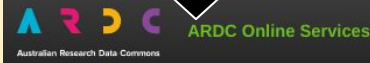
<https://researchdata.edu.au>

### EXTERNAL RESOURCES

ARDC WEBSITE

DEVELOPERS

ARDC ONLINE SERVICES



### Login

Built In LDAP Social AAF Rapid Connect

Log into the ANDS Online Services Dashboard using your AAF credentials:



Login using Australian Access Federation (AAF) credentials

# Providing Metadata Records to Research Data Australia

## Step 2 - Manage Data Sources

### Online Services User Guides

[Documentation Home](#)

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[RDA Registry](#)

### Manage Data Sources

[Data Source Account Dashboard](#)

[Data Source Account Settings](#)

[Data Source Harvest Configuration](#)



Australian Research Data Commons

### Login

[Built In](#) [LDAP](#) [Social](#) [AAF Rapid Connect](#)

Log into the ANDS Online Services Dashboard using your AAF credentials:



[Login using Australian Access Federation \(AAF\) credentials](#)

[My Data Sources](#)

[A R D C](#) **Demonstration Environment**  
Australian Research Data Commons

### Figshare

[Home](#) > [Manage My Data Sources](#) > [Figshare - Dashboard](#)

[Edit Settings](#) [Manage Records](#) [View Deleted Records](#)

#### Harvester Status

Status **SCHEDULED**  
URI <https://api.figshare.com/v2/oai>  
Last Run 2021-03-24 16:36:44 (21 hrs ago)  
Next Run 2021-03-25 16:32:42 (in 3 hrs)  
Harvest Frequency daily starting from 2016-10-14 16:32:42 (AEST)

Harvest rescheduled for: 2021-03-25 16:32:42

[Show Task](#)

[Import from Harvester](#)

# Providing Metadata Records to Research Data Australia

## Step 2 - Manage Data Sources

Online Services User Guides

Documentation Home

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RDA Registry

Manage Data Sources

Data Source Account Dashboard

Data Source Account Settings

Data Source Harvest Configuration



Australian Research Data Commons

ARDC Demonstration Environment  
Australian Research Data Commons

### Figshare

Home > Manage My Data Sources > Figshare - Dashboard > Settings > Edit Settings >

Account Administration Information | Records Management Settings | Harvester Settings

#### Account Administration Information

Key: figshare.api.jsor  
Title: Figshare  
Acronym:   
Record Owner: ANDS Training  
Contact Name:   
Contact Email:   
Notes:

Save Cancel

#### Records Management Settings

Reverse Links ?  Allow reverse internal links  
 Allow reverse external links

Primary Relationships ?

Manually Publish Records ?

Quality Assessment Required ?

Assessment Notification Email:

Provide Records to Data Citation Index

Save Cancel

# Providing Metadata Records to Research Data Australia

## Step 2 - Manage Data Sources

### Online Services User Guides

[Documentation Home](#)

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[RDA Registry](#)

Manage Data Sources

Data Source Account Dashboard

Data Source Account Settings

Data Source Harvest Configuration



Australian Research Data Commons

**Demonstration Environment**  
Australian Research Data Commons

### Figshare

Home > Manage My Data Sources > Figshare - Dashboard > Settings > **Edit Settings**

Account Administration Information | Records Management Settings | **Harvester Settings**

#### Harvester Settings ?

**Harvest Method** OAI-PMH Harvester OAI-PMH Harvester to fetch metadata using OAI PMH protocol

**URI** http://

**Enable Service Discovery**

**OAI Set**

**Metadata Prefix** RIF-CS + Add Crosswalk

**Advanced Harvest Mode** Standard Mode

**Harvest Date** 1970-01-01 10:00:00

**Harvest Frequency** once only

**Save** **Cancel**

Add an XSLT here to construct RIF-CS XML from your source metadata.

ARDC have many XSLTs for you to reuse, e.g. for harvests from Dublin Core, Figshare, CKAN, Elsevier PURE, ISO19115-3, etc.. Alternatively, ARDC can create you a new one.

services@ardc.edu.au



# Providing Metadata Records to Research Data Australia

## Step 2 - Manage Data Sources

### Online Services User Guides

Documentation Home

Welcome to the Research Data Australia help. Watch the videos below to get yourself acquainted with the site, or explore the various topics describing datasets (collections), researchers and research groups (parties), projects (activities) and tools (services) displayed in Research Data Australia .

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RDA Registry

### Manage Data Sources

Data Source Account Dashboard

Data Source Account Settings

Data Source Harvest Configuration

home / registry software

## Harvester

<https://documentation.ardc.edu.au/display/DOC/Harvester>

- GET (aka http get) - allows the harvest of individual files from any web resource, in any format (e.g. json or xml)
  - The GET harvester can be given any url with complete parameter list
- CKAN - ( json metadata over HTTP)
  - the CKAN harvester attempts to get a list of Identifiers and retrieve the json data for each record. it converts the entire set as one XML document (json serialised as XML)
- CKANQUERY - ( json metadata over HTTP)
  - The CKAN QUERY sends a query string to the CKAN server and retrieves all content using the start and rows params Converts the json response to serialised XML
- OAI-PMH - xml
  - retrieves all records in the metadataFormat requested by the datasource owner using the ListRecords endpoint
- CSW (Catalogue Services for the Web) - xml
  - retrieves datasets using the CSW protocol (using the outputSchema, in batches of 100)
- PURE (a simple dataset harvester using the PURE API)
  - requesting pages of 100 datasets until completed.
- JSONLD ( a sitemap crawler and jsonld content extractor )
  - the sitemap crawler requires a sitemap file, it could be text or xml (either <sitemapindex> or <urlset>)
  - using asynchronous request (max 5)
  - attempts to extract json-Id from all pages
  - combine the result into batches of 400
- ARCQUERY ( json metadata over HTTP)
  - retrieves all records from the ARC data portal to construct a list of grant Ids
  - queries the portal again by each specific Id to obtain rich json formatted metadata
  - combines the results into batches of 400
- OPEN DATA API ( json metadata over HTTP)
  - The OPEN DATA API Harvester retrieves JSON from any service that implements the US Government Project Open Data API (for dataSets)
  - Combines the results into batches of 400
- MAGDAQERY ( json metadata over HTTP)
  - The MAGDA QUERY Harvester retrieves JSON from any service that implements MAGDA SOLR API (for dataSets), by limit of 400
  - Combines the results into batches of 400



# Providing Metadata Records to Research Data Australia

## Step 3 - Manage RDA Records

### Online Services User Guides

Documentation Home

Welcome to the Research Data Australia help. Watch the videos below to get yourself acquainted with the site, or explore the various topics describing datasets (collections), researchers and research groups (parties), projects (activities) and tools (services) displayed in Research Data Australia .

<https://documentation.ardc.edu.au/display/DOC/Online+Services+User+Guides>

RDA Registry

Manage RDA Records

Manage Records

Bulk Tagging Tool



Australian Research Data Commons

The screenshot shows the Figshare interface within a 'Demonstration Environment'. At the top, the ARDC logo and 'Australian Research Data Commons' are visible. The main header reads 'Figshare'. Below this, a navigation breadcrumb shows 'Home > Manage My Data Sources > Figshare - Dashboard >'. A row of buttons includes 'Edit Settings', 'Manage Records' (circled in red), and 'View Deleted Records'. A red arrow points from the circled 'Manage Records' button to a dropdown menu that also has 'Manage Records' circled in red. Below the menu, the main content area shows a table with columns for 'DRAFT' and 'PUBLISHED'. The 'PUBLISHED' column contains a list of records, such as 'Raw data on use on imoEEM on Twitter: 2018-2021', 'Fungal NSI enzyme HMM', 'Histology of Emydocephalus annulatus skin', 'Video of courtship behaviour in turtle headed sea snakes', and 'Images of Emydocephalus annulatus scale protuberances'. Each record has search and view icons.

# Providing Metadata Records to Research Data Australia

## Step 3 - Manage RDA Records

### Online Services User Guides

Documentation Home

Welcome to the Research Data Australia help. Watch the videos below to get yourself acquainted with the site, or explore the various topics describing datasets (collections), researchers and research groups (parties), projects (activities) and tools (services) displayed in Research Data Australia .

<https://documentation.arcd.edu.au/display/DOC/Online+Services+User+Guides>

RDA Registry

Manage RDA Records

Manage Records

Bulk Tagging Tool



Australian Research Data Commons

The screenshot displays the Research Data Australia interface. At the top, the navigation bar includes 'Home', 'Manage My Data Sources', and 'Figshare - Dashboard'. A red circle highlights the '+ Add New Record' button in the top right corner. Below the navigation bar, there are three tabs: 'Edit Settings', 'Manage Records' (highlighted with a red circle), and 'View Deleted Records'. The main content area features four cards: 'Research datasets or collections of research materials', 'Researchers or research organisations that create or maintain research datasets or collections', 'Projects or programs that create research datasets or collections', and 'Services that support the creation or use of research datasets or collections'. Each card has a '+ Add' button. A red arrow points from the '+ Add New Record' button to the '+ Add a Collection' button. Below this, the 'Demonstration Environment' section shows a sidebar with 'Record Administration' selected. The main panel displays the record administration form for '(no name/title) (1439953)'. The form includes fields for 'Data Source' (Metadata Aggregator), '\* Key ?' (8347263874624873249), '\* Class ?' (collection), '\* Type' (collection), and '\* Group ?' (TestGroup). There are also fields for 'Date Modified ?' and 'Date Accessioned ?'. At the bottom, there are 'Previous Tab' and 'Next Tab' buttons.

# Providing Metadata Records to Research Data Australia

## Step 4 - Implement OAI-PMH Harvester

*A metadata contributor may decide to set up an OAI-PMH API when their metadata catalogue does not already have an API available for others to harvest contributor metadata from. RDA can harvest from multiple methods, including OAI-PMH. See <https://documentation.ardc.edu.au/display/DOC/Harvester>*

Online Services User Guides

Documentation Home

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RDA Registry

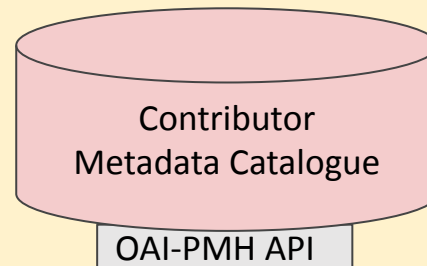
▼ Implement OAI-PMH Harvester

OAI-PMH Metadata Harvesting

Configuring jOAI to Support RIF-CS



Australian Research Data Commons



<https://metadata.contributor.org.au/oaipmh>

Harvest Method  OAI-PMH Harvester to fetch metadata using OAI PMH protocol

URI



# Research Data Australia Metadata Guidance

## Research Data Australia Content Providers Guide

[Documentation Home](#)

This guide provides advice on how to encode RIF-CS metadata records to describe datasets (collections), researchers and research groups (parties), projects (activities) and tools (services) for display in Research Data Australia.

<https://documentation.ardc.edu.au/display/DOC/Content+Providers+Guide>



### Getting Started With Metadata

What is Metadata?

About RIF-CS

Research Data Australia Collection Policies

Get access to the RDA Registry

Provide metadata to the Registry



### Best Practice RIF-CS Metadata

All RIF-CS Elements

**Describe a Collection**

Describe a Party

Describe an Activity

Describe a Service

... / rif-cs elements

## Collection

<https://documentation.ardc.edu.au/display/DOC/Collection>

| Collections in the RDA Registry | Metadata for Collection records in the RDA Registry | Collection attributes | Collection relationships | What makes a good Collection record? | Software | Exemplar | Change history

### Collections in the RDA Registry

In the RDA Registry and Research Data Australia, the concept of a collection means an aggregation of physical and/or digital resources which has meaning in a research context. This context includes the research process itself, any resources which support that process, and the linked scholarly communications cycle with its research outputs of publications, software and data. Objects from these collections provide context and meaning for each other.

A collection in Research Data Australia:

- must be understood as a single aggregation of resources within its research context;
- is not comprised exclusively of documents as the output of research, although they can certainly be documents as the subject matter of research; and
- has Australian relevance, either through involvement of Australian researchers, or Australian subject matter.

Research Data Australia can accommodate collections of research data resources as defined by the Research Data Australia Collection Development Policy. Generally, stand-alone publication outputs, such as theses, journal articles or books, are not within the scope of collections for the RDA Registry (although valuable as related information). However, stand-alone publications would be considered for inclusion where the published material:

- has been integrated into a collection of unpublished items
- is integral to the use and understanding of other collection materials in Research Data Australia
- is part of a collection where significant value has been added to the collection through mark-up and hyperlinks.





# Research Data Australia Metadata Guidance

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## Metadata for Impact: make RIF-CS work for you

<https://documentation.ardc.edu.au/display/DOC/Metadata+for+Impact%3A+make+RIF-CS+work+for+you>

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## Metadata for Impact: make RIF-CS work for you

Created by Kerry Levett, last modified by Catherine Brady on 05 Mar, 2020

Creating metadata descriptions involves some effort, so how should you decide which optional elements to include in your data descriptions? A good way to think about this is to consider what your institution wants to achieve by publishing data descriptions via [Research Data Australia](#) and how you expect people will search for and reuse your data. Richer metadata contains detailed and meaningful names, subject keywords, full descriptions, temporal and spatial coverage, citation information, rights information and meaningful relations that add information and context to the metadata document and support discovery and reuse. Contextual information such as information about the research program/project, data collection methods, researcher, or institution, helps a researcher decide if they want to reuse the data. Information about access such as access conditions and terms of use, restrictions on access, or contact information, enables the researcher to get to the data.

Some common institutional goals, with examples of associated RIF-CS encoding, are provided below:

1. We want to highlight our open data - the transparency of our research is important to our reputation
2. We want citation metrics for our data - as we have for our publications - to demonstrate the impact of our research and how we might identify new collaborators
3. We want to link our published data to related publications - it may help drive up the citation count for our publications
4. We want people to know they can access and use our data via a service
5. We want to optimise our data descriptions for display in Google Dataset Search

For more information about maximising the impact of your data:

- Read the Best Practice advice for the RIF-CS elements in the [Research Data Australia Content Providers Guide](#)
- Contact your [Outreach Officer](#) or email [services@ardc.edu.au](mailto:services@ardc.edu.au) for assistance or to discuss your requirements.

