What is the Data Access Portal (DAP)?

data.csiro.au

The DAP has been developed by IM&T and research partners as a secure repository for CSIRO’s research data assets.

It enables research data assets to be published externally thereby making them re-usable and citable.

The DAP offers self serve capability for researchers to deposit, describe and manage access to research data assets.

It also offers options for searching, retrieving and downloading research data.
Data Access Portal
Functions

- Self serve Deposit
- Describe
- Create Citation
- Restrict
- License
- Approve
- Store
- Publish
- Discover
- Access
- Manage
Storage and Compute Cloud (STACC) for CSIRO Research

• Implementation in progress
• Cloud processing with high throughput storage
• Long term storage capability to dramatically reduce ‘spinning disk’ costs and maintenance
• Ability to manage data at multiple sites without expensive copy operations
• Research self-management capability for provisioned infrastructure
STACC – the big picture
Complementary eResearch Services available

1. **Workspace**: allows users to construct workflows, user interfaces and complete applications quickly and easily. It also has visualisation capabilities for two-dimensional (2D) plotting and for three-dimensional (3D) models. It is designed to facilitate collaboration between groups and individuals and to be easy to extend.

2. **Advanced Scientific Computing** can assist with porting software to HPC environments, code profiling and optimisation, workflow analysis and optimisation, code debugging and numerical error analysis, and general HPC consulting.

3. **Visualisation** to provide visualisation specific applications support. This includes: creating targeted workflows to visualise scientific datasets; and using advanced visualisation software to explore very large or complex data.
The purpose of the CSIRO Data Access Portal

The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is Australia's national science agency and one of the largest and most diverse research agencies in the world.

The CSIRO Data Access Portal provides access to data published by CSIRO across a range of disciplines.

The portal is maintained by CSIRO Information Management & Technology to facilitate sharing and reuse of data held by CSIRO.

Search CSIRO data collections

What type of data is available?

- 3D morphologies of sulphide minerals in komatite samples from Mount Keith (Western Australia)
- CIPS sandstone microstructure
- Two-Rocks moonings data 2004 - 2005
- Australian National Wildlife Collection

Search By Location

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Server Name: Production. Build Number: 2.4.01 (12 Feb 2013)
SEARCH BY LOCATION

Instructions

Select a location by drawing a box OR selecting a point. You can pan and zoom the map to more easily see your selection. You can choose to enter a search term to narrow the number of collections found. Collections with coverage that includes the selected area/point but covers a wider area will be included in your search results.

1. Draw Area or Select a Point
2. Optionally, narrow search by typing in Search Text
3. Click SEARCH

Please note, this search will only return collections which contain location information.

Hint: If you have already selected a location, use the Navigate button to pan the map with your mouse.
Download a zip file for small collections, use SFTP or WebDAV for large collections.
Self service metadata entry

- Several metadata schemas for varying data types
- Main record contains fields already mapped to other schemas (e.g. geographical details)
- User selects schema to access fields not covered by main record
Web Services Interface (WSI)

Machine-to-machine access to public collections:
• Search the DAP – results available in XML, ATOM, JSON
• Retrieve collection metadata – CSMD, RIF-CS, DC, ANZLIC
• Retrieve data files, license files

Documentation:
https://wiki.csiro.au/display/dmsdoc/Web+Services+Interface
WSI – search results

e.g. http://ws.data.csiro.au/collections.xml?q=uwsra

```
<dap:query>uwsra</dap:query>
<dap:elapsedTime>6</dap:elapsedTime>
<dap:totalResults>5</dap:totalResults>
<dap:page>1</dap:page>
<dap:resultsPerPage>25</dap:resultsPerPage>
< dap:showOnlyUnrestrictedData>false</ dap:showOnlyUnrestrictedData>
< dap:sortBy>RELEVANCE</ dap:sortBy>

< dap:dataCollection>
  < dap:id>csiro:5990</ dap:id>
  < dap:title>Lockyer Valley Crop Mapping</ dap:title>
  < dap:published>2013-02-15T10:37:44.000+11:00</ dap:published>
  < dap:leadResearcher>Mick Hartcher</ dap:leadResearcher>
  < dap:description>
  Crop maps represented in 11 spatial layers (ESRI GRIDS) which were classified from remotely sensed imagery (Landsat TM 5). The 11 layers are named with the month and year from which the image was captured as follows: jul11 (18/07/2011), may11 (15/05/2011), apr11 (13/04/2011), oct10 (3/10/2010), sep10 (1/09/2010), aug10 (16/08/2010), oct06 (24/10/2006), jul06 (20/07/2006), may06 (1/05/2006), oct99 (29/10/1999), aug99 (10/08/1999).
  </ dap:description>
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