

Parkes Telescope Data Access

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Table of Contents

Parkes Telescope Data Access	
Pulsar data: Accessing data from CSIRO's Data Access Portal (DAP)	
STEP 1: Conduct a search query	1
STEP 2: Request access to a collection	3
STEP 3: Download your data	5
ATNF Computer Account Holders	6
Need help with data access?	7

This document describes the ways in which pulsar data taken by the Parkes radio telescope can be accessed.

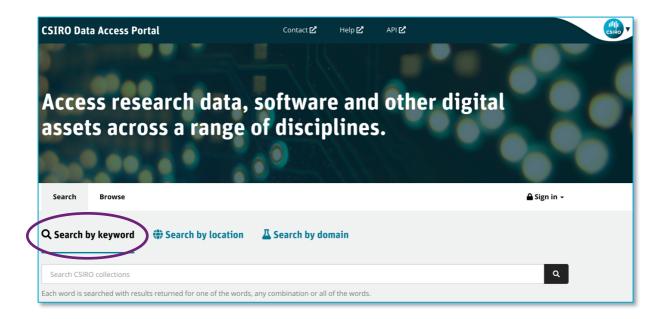
Pulsar data: Accessing data from CSIRO's Data Access Portal (DAP)

CSIRO's DAP is the most comprehensive archive for Parkes pulsar data available globally, with a volume of ~2 Petabytes and containing observations dating from the early 1990's to today.

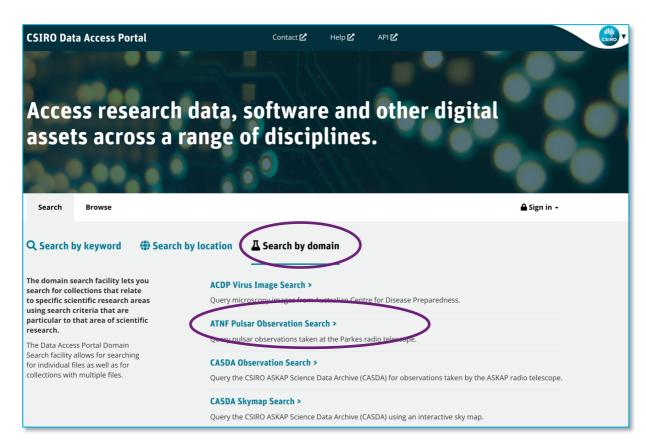
Data can be accessed by 2 main end-points: through a web browser for small requests or via a WebDAV mount point for large volumes. Follow the step-by-step guide below on how to access data using both the browser and WebDAV end-points.

STEP 1: Conduct a search query

- o Navigate to https://data.csiro.au
- Search for your data either:
 - a) by conducting a keyword search, for example by Project ID:

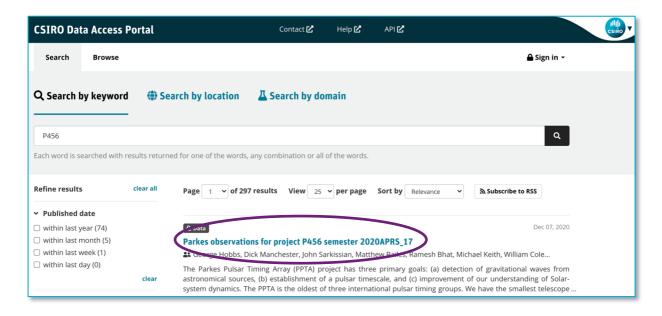


Or b), by conducting a specific 'ATNF Pulsar Observation Search', for example by source name, position, MJD, backend or filename:



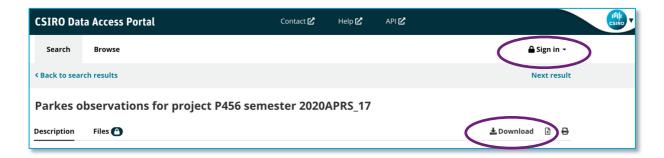
STEP 2: Request access to a collection

 In the following example, the keyword search query for Project ID 'P456' returned a list of 297 collections, and the '2020APRS 17' collection was selected:

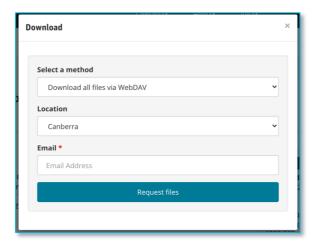




 If the collection is under embargo and you are listed on the OPAL proposal for the Project ID, you will need to log in at this point with your OPAL credentials in order to request the collection:



 Click 'Download' and choose from a list of download methods. Select 'Download all files via WebDAV', enter your email address and click 'Request files':



On receipt of the request you will see this pop-up dialogue:



 You will receive a confirmation email similar to the one below once the collection becomes available:



Dear File Requestor,

The collection Parkes observations for project P456 semester 2020APRS_17 is now available. You have chosen to access the collection by downloading via WebDAV, the collection will remain accessible for your action for the next 168 hours. You may need to use your nexus ident (e.g. abc123) and password to access this collection.

The files may be accessed at:

https://webdav-bm.data.csiro.au/dap_prd_000047262v001/ (Opens in web browser)

The metadata and licence for this collection are supplied in the attached files. You may wish to save this information with any files you download for future reference.

Further information about access options can be found at https://confluence.csiro.au/x/TQLOL.

STEP 3: Download your data

 Click on the link in the confirmation email - you will be prompted for your credentials, and the collection will then open in your web browser - this option is fine for retrieving a small number of files onto a laptop:



For bulk download of large collections via WebDAV, please contact
 <u>Lawrence.Toomey@csiro.au</u> for details of a script for automating this process – this is the preferred option for data retrieval

ATNF Computer Account Holders

An ATNF/CASS computer account holder can download data to booked disk space on an ATNF machine.

- Log on to host venice, then a processing machine (e.g. newton)
- Check for booked disk space with:

```
bookings -u your_ident
```

- o To request disk space, please email bookings@atnf.csiro.au with your requirements
- Configure your ~/.netrc file, adding the following lines where <pass> is your NEXUS or OPAL password:

```
machine webdav-cl.data.csiro.au login <your_ident> password <pass>
machine webdav-bm.data.csiro.au login <your_ident> password <pass>
```

Set the permissions correctly on the ~/.netrc file:

```
chmod 600 ~/.netrc
```

 Run the download script with the following arguments if you requested an embargoed collection and are listed on the OPAL proposal for that collection:

```
get-dap-collection.sh --url https://webdav-
cl.data.csiro.au/dap_prd_NNNNNNNNNNNNN --user your_ident --destdir
/path/to/your_data_destination
```

Alternatively, run the following command if downloading a publicly available collection (out of embargo):

```
get-dap-collection.sh --url https://webdav-
cl.data.csiro.au/dap_prd_NNNNNNNNNNNN --user your_email_address --destdir
/path/to/your_data_destination
```

Where 'your email address' is as stated on the DAP confirmation email.

An ATNF/CASS computer account holder can also access a selection of data available from the ATNF pulsar data archive.

- o Log on to host venice
- o Available archives are:



o Processing can be conducted directly on the processing host *cetus* or data can be copied to your institution

Need help with data access?

Please contact <u>Lawrence.Toomey@csiro.au</u> for further information.