

Data access - CSIRO computer account users

ATNF Science

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Table of Contents

1	Pulsar data	4
1.1	Accessing data from CSIRO's Data Access Portal (DAP).....	4
1.1.1	Request data	4
1.1.2	Download data	7
1.1.2.1	Individual files	7
1.1.2.2	Collections.....	7
1.2	Accessing data from the ATNF data archive	7
2	Spectral line data	9
3	Need help?.....	10
4	Data download scripts.....	11
4.1	Retrieve data from DAP	11

This document describes the ways that a user with an ATNF computer account can access pulsar and spectral line data taken by the Parkes radio telescope.

1 Pulsar data

ATNF computer account holders can access available data from CSIRO's Data Access Portal (DAP).

Limited data sets are also available in the ATNF data archive, but we encourage users to access the DAP first.

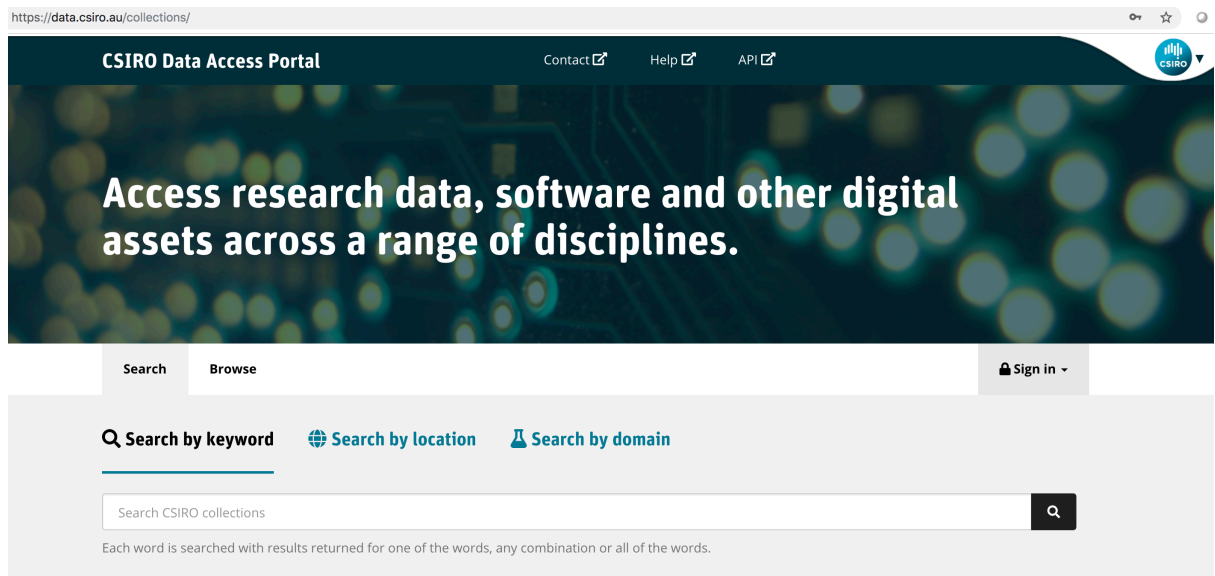
A program for downloading pulsar data from DAP is available on both ATNF machines and CSIRO HPCs:

- [Data download scripts](#) (see page 11)

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

1.1.1 Request data

- Browse to <https://data.csiro.au>
- Search for your data; if you have an OPAL or NEXUS account, sign in with your credentials:



- Choose your collection - in this example, a 2018APR semester of the project ID P737 has been selected:

CSIRO Data Access Portal

Search Browse Sign in

< Back to search results Next result

Parkes observations for project P737 semester 2018APRS_51

Description Files **10** Services **0** Download **0**

About this collection

George Hobbs, **Dick Manchester**, **James Green**, **Simon Johnston**, **John Sarkissian**, **John Reynolds**, **Matthew Bailes**, **Willem van Straten**, **Andrew Jameson**, **Ryan Shannon**, **Jane Kaczmarek**, **Shi Dai**

Collection description
Pulsar observations using the Parkes radio telescope have led to some of the most exciting astronomical results in the last few years. The aim of this proposal is to carry out tests of the new backend instruments which cannot be carried out during standard maintenance periods. High precision pulsar timing experiments require cross-coupling in the feed to be measured. This can only be done using observations of PSR J0437-4715 from rise-to-set. We propose to undertake such observations and make the results available for any users of the telescope. We will also use P737 to commission new receivers such as the UWB.

Start date
2018-04-01

End date
2018-09-30

Access
The metadata and files (if any) are available to the public.

Data
Published
05 Jan 2019

Contact
CSIRO Enquiries
CSIROEnquiries@csiro.au
1300 363 400

Licence
Creative Commons Attribution 4.0 International Licence

Permalink <https://doi.org/10.25919/5c3042be1992b> [copy](#)

- Click on the 'Files' tab, and select files for individual download (Max. 2GB), and click on 'Download' to reveal a choice of download methods. Select 'Download via WebDAV' for access to the whole collection:

Download

Select a method

- ✓ --- Please Select ---
- Download selected files as TAR archive
- Download selected files as ZIP archive
- Download using your browser
- Download via WebDAV

Copy this persistent link to share this collection
<https://doi.org/10.25919/5c3042be1992b>


- Select files up to a total of 2GB and download as a Zip archive using your browser.
- To download volumes greater than 2GB, select a different download method (e.g. WebDAV).
- An asterisk (*) in place of a checkbox indicates the file is too large to download as a Zip archive. Please select a different download method (e.g. WebDAV).
- CSIRO staff should log in for additional download options.

Please see our [help documentation](#) for further details.

- Enter an email address and click 'request files' - you will receive a confirmation email like the one below once the collection is available:

Research Data Service

INFORMATION MANAGEMENT AND TECHNOLOGY
www.csiro.au



Dear File Requestor,

The collection Parkes observations for project P737 semester 2015OCTS is now available. The collection can now be downloaded via WebDAV, and will remain accessible for your action for the next 168 hours. You will need to use your email address and the temporary password provided below to access this collection.

User: lawrence.toomey@csiro.au
 Password: Fo9Dr1t7

The files may be accessed using:


- https://webdav-cl.data.csiro.au/dap_prd_000017572v001/ (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/pQDsDw>.

Thank you for using the Research Data Service.


ITEMS OF INTEREST






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This email has been sent by the CSIRO Research Data Service

Email: CSIROEnquiries@csiro.au | Phone: 1300 363 400

NOTE: If you are not logged in when you request data, you will receive a temporary password (as in the example above).

If you are logged in when you request data, your credentials will be your OPAL account email (or NEXUS ident) and password. These credentials are required to access any embargoed data for which you are listed on the OPAL proposal.

1.1.2 Download data

1.1.2.1 Individual files

- Click on the link in the confirmation email - you will be prompted for your credentials, and the collection will then open in the browser

1.1.2.2 Collections

- If you wish to download to an ATNF machine, log on to host *venice*, then *newton*
- Check you have booked disk space with:

```
bookings -u your_ident
```

- To request disk space, please email bookings@atnf.csiro.au¹ with your requirements
- If you wish to download to a CSIRO HPC, log on to either *Ruby*, *Pearcey* or *Bracewell*, e.g.:

```
ssh -Y <your_ident>@ruby.hpc.csiro.au
```

- To request an HPC account, see the Scientific Computing information at [Register to become a user](#)²
- 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_NNNNNNNNNvNNN --user  
<your_ident> --destdir /path/to/your_data_destination
```

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

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

Where <your_email_address> is as stated on the DAP confirmation email.

1.2 Accessing data from the ATNF data archive

- Log on to host *venice*

¹ <http://atnf.csiro.au/>

² <https://confluence.csiro.au/display/SC/Register+to+become+a+user>

- For CASS pulsar group users, your data can be accessed from the following ATNF archives:

\$DFB*

\$CASPSR*

\$UWL*

- Processing can be conducted directly on host *newton* or data can be copied to your institution

2 Spectral line data

Medusa spectral line data in raw and SDHDF format are available on host *venice* in:

/DATA/UWL_SPEC_1

/DATA/UWL_SPEC_2

3 Need help?

Please contact too043@csiro.au³ for further information.

³ <mailto:too043@csiro.au>

4 Data download scripts

4.1 Retrieve data from DAP

```
get-dap-collection.sh
```

Usage:

```
get-dap-collection.sh [OPTION] [ARG]...
```

Available options:

```
[-h] This help
[--url] DAP collection WebDAV URL
[--destdir] Data destination directory
EITHER:
[--user] <your_ident> (embargoed collections)
OR:
[--user] <your_email_address> (public collections)
```

Example:

```
get-dap-collection.sh
    --url https://webdav-cl.data.csiro.au/dap_prd_NNNNNNNNNvNNN
    --destdir /path/to/your_data_destination
    --user [your_ident OR your_email_address]
```

NOTE: Access to embargoed collections requires the argument to --user to be <your_ident>. You will be prompted for your OPAL/NEXUS password.

Access to public collections requires the argument to --user to be <your_email_address> specified when you requested the collection. You will be prompted for the password supplied in the collection confirmation email

This program retrieves a collection from CSIRO's Data Access Portal

- see the [Data access - CSIRO computer account users \(see page 3\)](#) page for more information