

# Distribution of output data to Pls

**Note:** Data are now distributed via the Pawsey Data portal. See [archiving](#) notes. Below is only for reference in case an alternative is required.

The ftp server cira.ivec.org is no longer in use. Below are instructions for transfer of data to [AARNet's CloudStor+](#) for distribution.

(Note there are various ways to do this. The instructions below use davfs2 to access your CloudStor+ area via the command line on cuppa. )

## Initial set up

If you haven't already done so, you need to set a password for webdav access to CloudStor+ (this is different from your institutional login). To do this, log in to CloudStor+ on your web browser, click on your email address in the top right-hand corner of the page and go to your ["Personal" page](#).

On cuppa21 (logged in to your own account):

You can make your own directory for distributing data to Pls (or geodetic analysts) on cuppa21 under: `/data/corr/corrrdat/DistributeData/`

e.g. `/data/corr/corrrdat/DistributeData/hayley/ownCloud`

In your home area, create a directory called `.davfs2` and within that, a file `secrets` with the line (inserting your credentials):

```
https://cloudstor.aarnet.edu.au/plus/remote.php/webdav/ <username>  
<password>
```

Make sure this file is accessible only to you, with `chmod 600 ~/.davfs2/secrets`

Contact someone with superuser access to add you to the davfs2 group:

```
sudo usermod -aG davfs2 <user>
```

and to add the following line to `/etc/fstab` (to mount in your area on cuppa21):

```
https://cloudstor.aarnet.edu.au/plus/remote.php/webdav/  
/data/corr/corrrdat/DistributeData/hayley/ownCloud davfs user,rw,noauto 0 0
```

## Don't let davfs2 use home area for caching:

davfs2 caches files for transfer and by default will use `~/.davfs2/cache` for this. This is a potentially fatal problem when trying to transfer large files as the `/home` partition on cuppa has limited space. The file being copied will be truncated when the `/home` partition is full (not to mention other problems that causes). To avoid this, create a directory in the data area on cuppa21 (outside of

your ownCloud area), e.g.:

```
mkdir /data/corr/corrrdat/DistributeData/hayley/davfs2-cache
```

Remove any existing `~/davfs2/cache`, and create a soft link to the new area:

```
ln -s /data/corr/corrrdat/DistributeData/hayley/davfs2-cache ~/davfs2/cache
```

## Mounting via the command line

You should be able to mount your CloudStor+ area with (e.g.) `mount /data/corr/corrrdat/DistributeData/hayley/ownCloud`

You can add the following to your `.bashrc` (or `.mybashrc`) if you want to mount automatically on login to `cuppa21` (after a reboot etc.)

```
if [ -d /data/corr/corrrdat/DistributeData/hayley/ownCloud ]; then
    mount /data/corr/corrrdat/DistributeData/hayley/ownCloud
fi
```

## Distributing data

On `cuppa` (logged in to your own account on the correlator output data node):

To copy FITS files etc. from the correlator output area to a folder on CloudStor+ (can also just use `scp` or `rsync` if preferred):

```
gloPut7T.sh -m VX021A.FITS /data/corr/corrrdat/vx021a hbignall@cuppa21
/data/corr/corrrdat/DistributeData/hayley/ownCloud/VLBI/vx021a
```

To copy the pipeline outputs:

```
gloPut7T.sh /data/corr/pipe/vx021a/out hbignall@cuppa21
/data/corr/corrrdat/DistributeData/hayley/ownCloud/VLBI/vx021a/pipeline-
output
```

On your local web browser:

Go to your files on CloudStor+. Hover the mouse over the experiment folder to see the option "Share" - select "Share with link" and send the link to the PI in the [data release email](#). Clicking on "Download" for a folder will result in a zip file for download.

As an alternative to the web interface, the entire experiment folder may be retrieved with: `wget -O {name}.zip "{shared link}&download"`. **However note:** there may be a (2GB?) file size limit for zip file creation, so this may not be viable for most experiments (suspected due to getting "HTTP request sent, awaiting response... 504 Gateway Time-out" when trying to get a folder of ~2GB, whereas the `wget` option worked for a smaller folder.)

If your CloudStor+ area is getting close to full (100GB free storage limit), you can move older

directories out to .. on cuppa21 and permanently remove from your “Deleted files” on CloudStor+. (Keeping them on cuppa21, provided there is space, means you can readily restore if the PI asks for access again.)

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