

LoFASM Data Download Instructions

This document explains how to acquire LoFASM data from each of the four LoFASM stations that are currently running. In each case the instructions will entail using at least two terminals; one will host the ssh tunnel (a direct link to the LoFASM Control Computer, labeled LCCX where X is one of [1,2,3,4]) and the other will be used to actually copy the data to your local machine.

LoFASM I

No info available yet.

LoFASM II

No info available yet.

LoFASM III

1. Obtain ssh passwords for accessing LoFASM III
 - The first password will be hereby referred to as **pw1** and the second as **pw2**.
2. Open SSH tunnel
 - Open a terminal window and run

```
ssh -N -L 8324:192.33.116.34:22 fjenet@ssh.gb.nrao.edu
```
 - Enter ssh password **pw1** and let that window hang out to the side.
3. Transfer data
 - Open a **second** terminal window while **not** interrupting the first window created in the step above.
 - Navigate into the target directory. This is the directory where the LoFASM III data will be stored. For example, if you want to save the data in `/var/data/` then you would run the following:

```
cd /var/data
```

- Using `scp`
 - Now you will use the `scp` command to copy the data over to your current working directory. Let's say (as an example) that the data file you want to copy over is located at `/data1/20151013/20151013_100501.lofasm` . Then the `scp` command that you'll be using would be

```
scp -P 8324
controller@localhost:/data1/20151013/20151013_100501.lofasm .
```

- Using `rsync`
 - If you want to use the `rsync` command to copy the data over to your local machine then the command analogous to the example above is

```
rsync -av --progress -e 'ssh -p8324' \
controller@localhost:/data1/20151013/20151013_100501.lofasm .
```

Notice that the port number `_8324_` is the same number that was used in step

* Enter password `__pw2__` when prompted. The transfer should begin if everyt

Once the ``scp`` command above finishes you should have the copy of the data

1. Perusing the available data files (*optional*) If you would simply like to open a shell on the LoFASM III control machine (LCC3) and see what data is available then follow these steps.

- Complete step 2.
- Open a **new** terminal window while **not** interrupting the window created in step 2.
- In this new window type

```
ssh -p8324 controller@localhost
```

Then enter the password **pw2** when prompted.

The flag `-p` must contain a lowercase p. Again, the port number (8324) must match the port used in step 2.

- Data files on LCC3 are kept in either `/data1` or `/data2` . Feel free look in these two directories for the data that you need. When you have chosen a file

(or set of files) to download then proceed to step 3 to transfer them to your local machine.

LoFASM IV

No info available yet.