Notes about Downloaded ALMA Data

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When the archival data used in this workshop are downloaded and unpacked, the files will be sorted into the following directory structure:

2021.1.00499.5 group.uid < A001 X158f X79e member.uid A001 X158f X7a1 calibration log product qa raw script

Most other ALMA data, when unpacked, are organized in a similar way.

The directories contain the following files:

calibration Calibration plots and tables

log Log files

product

qa

raw

README

Quality assurance data

Fully processed images

Raw data (ASDM format)

A text file with information from calibration and imaging as well as general file information

script

Data processing scripts

To produce calibrated visibility data that can be used to create new images, do the following in a terminal:

- 1. Go to the script directory.
- 2. Start CASA in pipeline mode using the --pipeline option in the terminal. (When starting CASA from the app on a Mac, quitting CASA in the terminal and then restarting it with this option works.)

3. Execute the script ending in scriptForPI.py using execfile('member.uid___A001_X158f_X7a1.scriptFo rPI.py'). Re-calibration may take a while, especially on machines with lower specifications.

The calibrated visibility data will be placed in a new directory called calibrated.