

# 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:

```
2018.1.01131.S
  science_goal.uid___A001_X135b_X60
    group.uid___A001_X135b_X68
      member.uid___A001_X135b_X6b
        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` Fully processed images

`qa` Quality assurance data

`raw` Raw data (ASDM format)

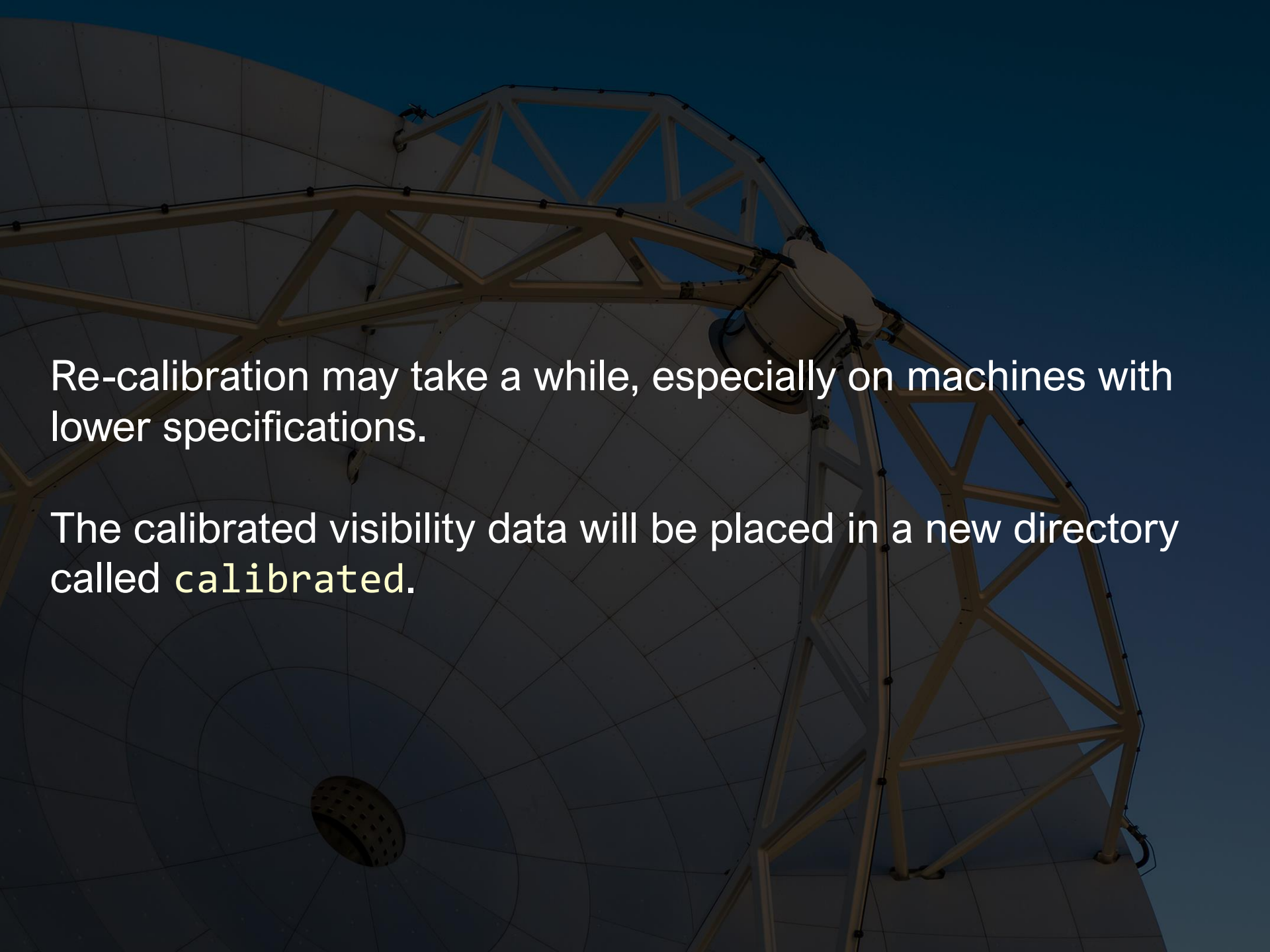
`README` A text file with information from calibration and imaging as well as general file information

`script` Data processing scripts

A large radio telescope dish is shown against a dark blue sky. The dish is a complex structure of metal beams and panels, with a large, perforated horn antenna at the bottom. The lighting is dim, suggesting dusk or dawn.

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 using the command `execfile('scriptForPI.py')`. [***For CASA 6.2.1, use the replacement scriptForPI.py created for this workshop.***]

A large satellite dish antenna structure is shown against a dark blue sky. The dish is composed of a complex metal lattice of beams and supports. A large, circular, perforated antenna element is visible in the lower-left quadrant of the dish. The overall scene is dimly lit, suggesting dusk or dawn.

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`.