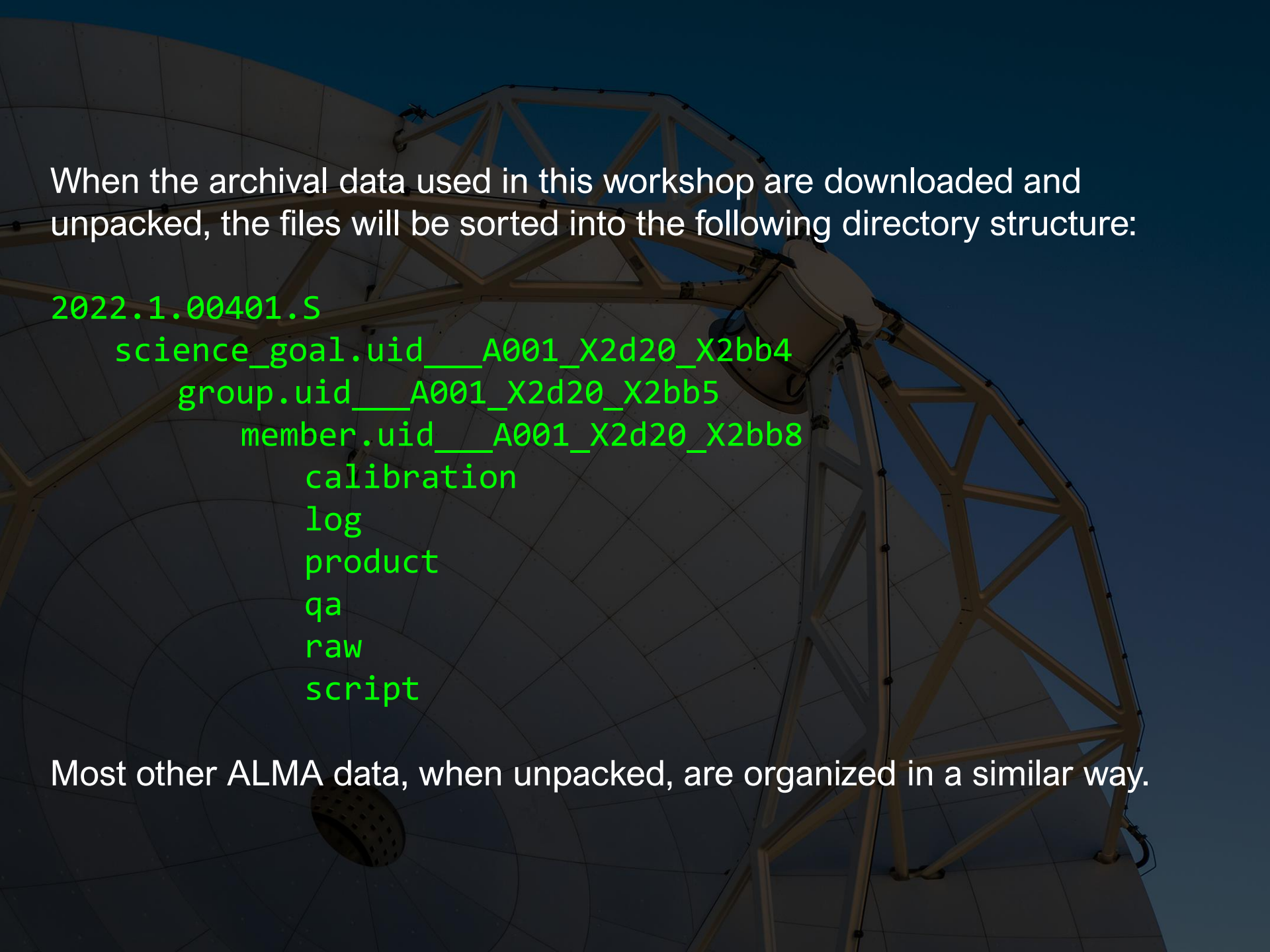


Notes about Downloaded ALMA Data

George Bendo

UK ALMA Regional Centre Node
Jodrell Bank Centre for Astrophysics
The University of Manchester

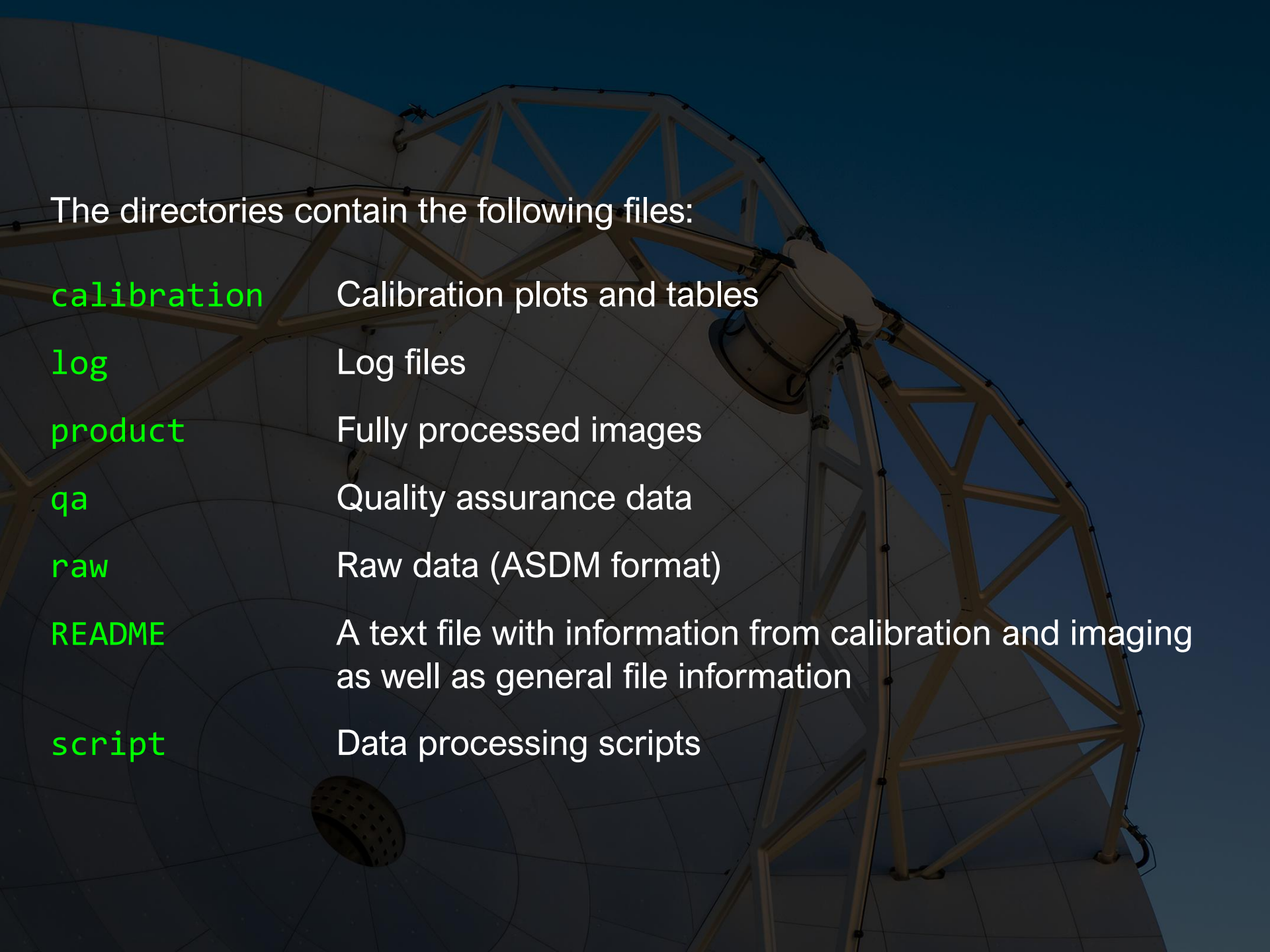




When the archival data used in this workshop are downloaded and unpacked, the files will be sorted into the following directory structure:

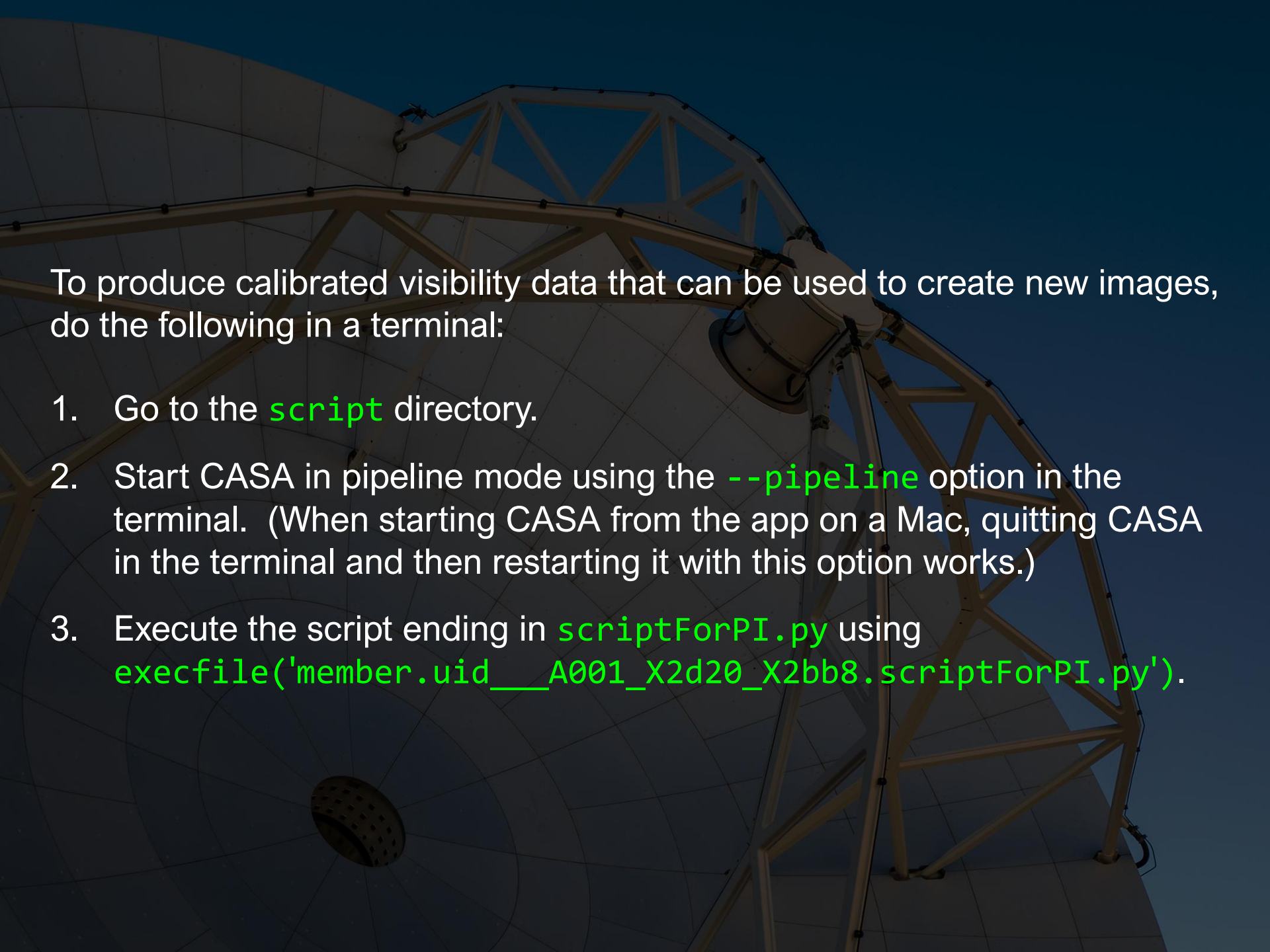
```
2022.1.00401.S
  science_goal.uid___A001_X2d20_X2bb4
  group.uid___A001_X2d20_X2bb5
  member.uid___A001_X2d20_X2bb8
  calibration
  log
  product
  qa
  raw
  script
```

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




The directories contain the following files:

<code>calibration</code>	Calibration plots and tables
<code>log</code>	Log files
<code>product</code>	Fully processed images
<code>qa</code>	Quality assurance data
<code>raw</code>	Raw data (ASDM format)
<code>README</code>	A text file with information from calibration and imaging as well as general file information
<code>script</code>	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_X2d20_X2bb8.scriptForPI.py')`.

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, forming a parabolic shape. The surface of the dish is covered in a grid of small, square panels. A large, circular, perforated metal component 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**.