**Addressing problems relating to the mirisim cache**

These instructions assume the reader has already read the instructions for mirisim and JWST processing word document.

The mirisim cache is located under: **mirisim/CDP/cache** and contains important files for running the simulation. If the files are not present when mirisim is run, they are automatically downloaded from: <https://cdp.miricle.org>. However, these files are extremely large and can cause the mirisim script to fail with “pipetimeout” when the computer workload of running mirisim is combined with downloading these.

The script: runtestsim.py (found on GitHub) is a simplified version of runmsim\_v5.py. It creates its own scene which mirisim is then run on. There are no inputs and the simulation takes approximately 2 minutes to simulate 2 dispersers (channels 1/2 or ‘SW’ or channels 3/4 or ‘LW’).

To run; activate the mirisim environment in the same way for runmsim\_v5.py.

Open the script:

**nano runtestsim.py**

At the top of the script, there are various parameters that can be set to run the test simulation in the same way as the mirisimulation in runmsim\_v5.py.

Close the script and run:

**python -W ignore runtestsim.py**

As this script is substantially simpler than the main mirisim script, the simulation and the downloading of the cache files is more likely to be successful.

On completion of the script, the required files will have been downloaded to the cache. runmsim\_v5.py should now run normally with no cache issues.