SOFTWARE INSTALLATION

Dear JWST Proposal Planning Workshop participants,

To ensure a smooth start for all the breakout sessions, it is important to install all the software ahead of time. Doing so will give you the opportunity to contact the JWST Help Desk to resolve any installation issues prior to the start of the workshop.

We will be using four proposal preparation packages: the Exposure Time Calculator (ETC), the Astronomer's Proposal Tool (APT), the General Target Visibility Tool (GTVT), and the Coronagraphic Visibility Tool (CVT).

Exposure Time Calculator (ETC):

There is an on-line version of ETC for which users are not required to do any installation but will need a MyST account to save the ETC workbooks. Please, get an account before the start of the workshop by visiting https://proper.stsci.edu/proper/authentication/auth.

Some ETC instructors will include demos on using python scripts with the ETC (at least for Science Cases 1 and 6). This will require users to have Pandeia installed and the necessary python tools. If you are interested in this feature, please download the software from here: http://ssb.stsci.edu/pandeia/engine/1.0/. Please note that this is only offered as "shared risk" meaning that there is no official support for this software package.

For coronagraphy, the ETC scripts can be found here: https://github.com/kvangorkom/pandeia-coronagraphy

For other observing modes, examples of how to use it can be found here: https://github.com/spacetelescope/JWSTUserTraining2016

Astronomer's Proposal Tool (APT):

APT is needed to write, validate and submit JWST proposals. Installation instructions can be found at http://www.stsci.edu/hst/proposing/apt

Target Visibility Tools:

GTVT and CVT are distributed as part of the AstroConda python software release. AstroConda, maintained by the Space Telescope Science Institute, provides tools and utilities for working on data from HST, JWST and other telescopes. Installation instructions are available at the AstroConda website. AstroConda in turn runs under the Conda package management system, and in particular is compatible with the Continuum Analytics, Inc.'s Miniconda and Anaconda distributions, one of which must be dowloaded and installed prior to installing AstroConda. Information is available to help you decide what download is right for you. The visibility tools should be run in the AstroConda environment to ensure connectivity to all dependencies such as Python or

Matplotlib code libraries. Future updates to the tools will be readily available by executing a single command in the AstroConda environment.

If you have any questions installing these software packages, please contact the JWST Help Desk.