



JWST Master Class 2020

JDox and Help Desk Assignment

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This assignment aims to familiarize Master Class attendees with the JWST User Documentation System (JDox) and Help Desk. In this assignment you will find a list of questions for you to answer by undertaking a "scavenger hunt" through JDox. **Try to answer at least all the bold-faced questions** as well as the recommended number of additional questions within each category.

1. Introduction

The [JWST User Documentation system, or JDox](#), is one of the primary resources STScI offers to help the user community learn about JWST, its instrumentation and data, and how to propose for observing time. As a Master Class participant it is important to familiarize yourself with the JDox content and how to find information in this extensive set of cross-linked articles.

While the JDox interface is largely intuitive, you may find this [short video tutorial](#) to be of use in understanding how to navigate the documentation and search for information.

2. JWST Cross Instrument questions

In addition to the required questions in bold, answer an additional 1 question from the list.

1. **What is the first thing I should do when preparing my proposal?**
2. **What observing methods does JWST support?**
3. **How do I know when a given target is visible to JWST?**
4. When should I propose for NIRISS Wide Field Slitless Spectroscopy (WFSS) instead of NIRCам WFSS?
5. If I want to observe the spectra of transiting exoplanets, what spectroscopic JWST observing modes are available to me?
6. Which JWST instruments offer standard imaging? What is the wavelength coverage of the imaging modes?

7. I would like to obtain spatially resolved (2-D) spectroscopy with JWST. Is that possible? If so, which observing modes support this, and what wavelengths are covered?
8. Which JWST observing modes will allow me to observe faint companions near bright host objects?

3. MIRI

In addition to the required questions in bold, answer an additional 2 questions from the list.

1. **What is the wavelength coverage of MIRI? What are the different PSFs for MIRI imaging in different filters?**
2. **For which MIRI observing modes should I dither? Is there a limit for the amount of time I should spend in a given dither position?**
3. **What is the field-of-view and wavelength range for the MIRI IFU (medium-resolution spectroscopy) channels?**
4. What separation between a faint companion and bright host can I achieve with the MIRI coronagraphic masks? What are the central wavelength coverages of these masks?
5. When observing with the low-resolution spectrometer (LRS), should I choose slit or slitless spectroscopy?
6. When using MIRI MRS Simultaneous Imaging, will I get imaging observations of my target "for free"? What is this mode used for? When should I choose to use this option, or not use this option?
7. When should I take a dedicated background observation?

4. NIRCам

In addition to the required question in bold, answer an additional 2 questions from the list.

1. **What is the wavelength coverage, field of view, and pixel scale for NIRCам's short-wavelength and long-wavelength detectors?**
2. I would like to observe the gaps between NIRCам's A & B module when using imaging. What dither pattern should I use? What dither pattern should I use for NIRCам Wide Field Slitless Spectroscopy?
3. Which NIRCам observing modes support mosaicking? When should I create a mosaic, and when should I dither?
4. Which NIRCам readout patterns have skipped frames?
5. What coronagraphic masks are offered by NIRCам, and what wavelength ranges do they cover?
6. Should I dither for grism time-series imaging observations?

5. NIRISS

In addition to the required question in bold, answer an additional 2 questions from the list.

1. **What is the field of view and wavelength coverage of NIRISS? What is the pixel scale?**

2. What is the difference between the NIRISS readout patterns? Which should I choose for my science?
3. For which NIRISS observing modes do I have to use target acquisition?
4. Which NIRISS observing modes require dithering?
5. What are the four factors to consider when choosing a PSF reference (i.e., calibrator) star for an AMI observation?
6. I want to observe a galaxy cluster field with NIRISS WFSS. Is there a good example of how to set up my observations? How do I remove contamination from overlapping spectra?

6. NIRSpec

In addition to the required question in bold, answer an additional 2 questions from the list.

1. **What is the wavelength coverage of NIRSpec? And what is the pixel scale?**
2. What is the field of view of the NIRSpec Micro-Shutter Assembly? What is the field of view of the NIRSpec IFU?
3. What is the estimated best possible accuracy for target acquisition for the micro-shutter assembly shutters and which TA method will deliver it?
4. I have ground-based and Spitzer imaging of my field. Do I need NIRCам pre-imaging to ensure that my objects are precisely located in their MSA shutters?
5. There are bright stars in the MSA FOV that will cause "leakage" and will contaminate my IFU observations. What are the mitigation strategies that can be implemented when designing the observations?
6. What do I do if I need precise centering for a target that's too bright for WATA?
7. I want to use a 0.2" fixed slit to observe a source with an emission feature at 1.355 microns. Which slit should I use? Can I use both of the A slits for this?

7. Astronomer's Proposal Tool (APT)

In addition to the required question in bold, answer an additional 2 questions from the list.

1. **When I enter an observation in APT, there is a box at far right labeled "ETC Wkbk.Calc ID", but there is no context-sensitive help available. What am I supposed to put in that box, and is it a required input?**
2. The JWST website lists accepted Early Release Science programs (<http://www.stsci.edu/jwst/observing-programs/approved-ers-programs>). I would like to view program ID 1334, "The Resolved Stellar Populations Early Release Science Program" as an example, and I understand the APT files for the approved Early Release Science Programs can be loaded directly into APT for inspection. How do I do that?
3. If I am requesting a sequence of observations that need to be linked together in time (hence I put a special requirement in to make a non-interruptible sequence), is there a maximum time limit for such a sequence?
4. Why does my observation have "Implicit" special requirements in APT, and why can't I edit them?
5. Which APT observation templates fall into the category of mini-mosaics?

- I see an option for "Module" in the NIRCam APT template. What do these two options refer to?

8. Exposure Time Calculator (ETC)

In addition to the required question in bold, answer an additional 2 questions from the list.

- Will the ETC warn me if I start inputting parameters that are not supported by APT?**
- Can I upload a custom spectrum for my source for ETC calculations? If so, what information should I provide?
- What options do I have for defining the flux distribution for an extended source?
- Running many calculations is tedious... Is there a way to speed this up?
- When should I use the IFU nod-off-scene strategy?
- I would like to do additional analysis beyond what the ETC reports. Is there a way to access the output data products so I can use my own software tools for further analysis?

9. JWST Help Desk

Please answer all questions below.

- Announcements such as new APT and ETC releases or downtimes, Call for Proposals, etc. are posted on the Help Desk homepage (<https://stsci.service-now.com/jwst>, see screenshot below). What is the latest announcement posted on the homepage? (You may need to log in with your myST account)

How can we help?

Search JWST Knowledge Base and Documentation System (JDox)

How can we help?

Knowledge Base
Browse our Frequently Asked Questions, Release Notes, and Known Issues

Get Help
Contact support to make a request, or report a problem

Announcements

- Trouble accessing www.stsci.edu?
Today
- Help Desk Terms of Service
Today
- JWST Video Tutorials now available!
about a month ago
- ETC 1.5 released!**
2mo ago
- APT 27.3 Released

Helpful Links

- James Webb Space Telescope
- JWST User Documentation (JDox)
- Space Telescope Science Institute

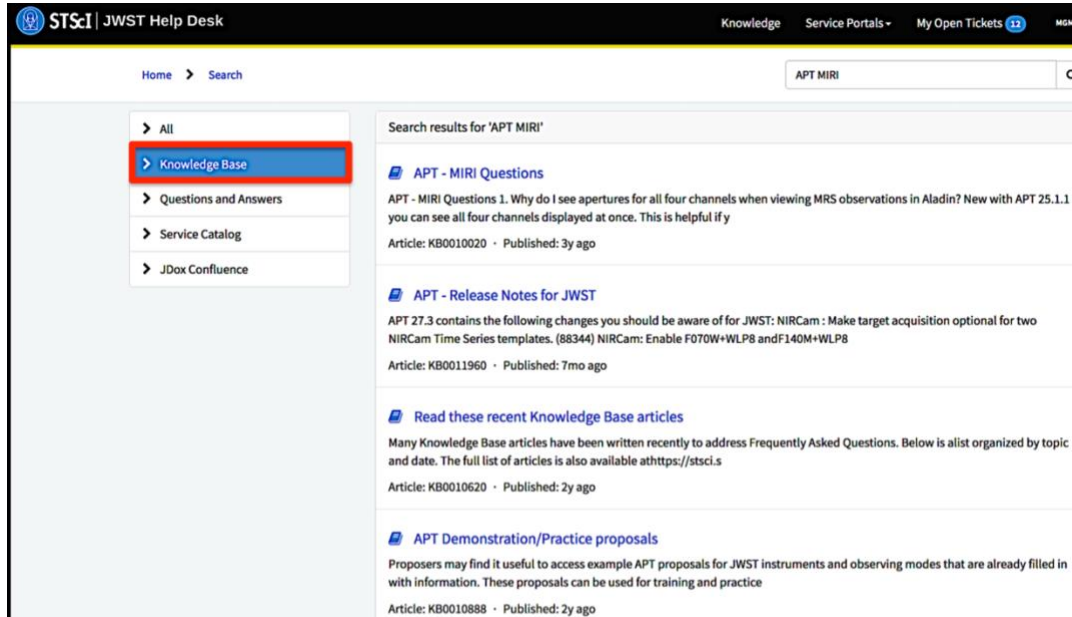
Help Desks

- HST Help Desk
- MAST Archive Help Desk

My Requests

- MIRI Coronagraphic Photometric Calibration dithers seem to be incorrect
INC0050164 • 2y ago • APT
- Imager vs. MRS exposure duration error
INC0050051 • 2y ago • APT
- SIAF aperture displayed in the MIRI Coron Cal. template
INC0020577 • 2y ago • APT
- How is the mosaic % overlap estimated?
INC0011111 • 2y ago • APT

- From the Help Desk homepage (jwsthhelp.stsci.edu) you can search for answers to your questions. Search results will give Knowledge Base articles first and then JDOx results. You can use the sidebar tree to filter for specific types of articles. See the screenshot below for the search results for "APT MIRI". Use the Help Desk search bar to find out why you may be having trouble connecting to the APT server. Explore using the sidebar tree to filter types of articles.



- If, while preparing your JWST proposal, you can't find an answer to any question using the search function or JDOx, you may submit a question (otherwise known as a "ticket") for a member of the Help Desk staff to answer. You submit a question by clicking on the "Get Help" icon on the homepage. This will send you to a page of "catalogs" to choose from to get an answer quicker (See example screenshot below). If you can't determine what catalog to choose you may also choose "General". What catalog would you submit to if you have a question about adding an investigator to your proposal?

James Webb Help Desk

Your JWST gateway. Report issues and submit requests.

APT Support
Request assistance with the Astronomer's Proposal Tool (APT)
View Details

Constraints & Scheduling
Ask questions about scheduling and observing with JWST
View Details

Coronagraphy
Ask about NIRCam or MIRI coronagraphic imaging
View Details

Data Analysis Tools for JWST
Request assistance with STScI-developed data analysis tools.
View Details

ETC Support
Request assistance with the Exposure Time Calculator (ETC)
View Details

JWST Master Class
Practice submitting a JWST Help Desk Ticket
View Details

JWST Science Policies
Request assistance for Science Policy Issues.
View Details

JWST SN Requests & Issues
Submit JWST Requests and Issues related to ServiceNow
View Details

MIRI Support
Request assistance with the Mid-Infrared Instrument (MIRI)
View Details

NIRCam Support
Request assistance with the Near-Infrared Camera (NIRCam)
View Details

NIRISS Support
Request assistance with the Near-Infrared Imager and Slitless Spectrograph (NIRISS)
View Details

NIRSpec Support
Request assistance with the Near-Infrared Spectrograph (NIRSpec)
View Details

Office of Public Outreach
Contact the STScI Office of Public Outreach about JWST
View Details

Pipeline Support
Request assistance with the JWST pipeline
View Details

Solar System Observing
Ask questions about proposal writing for solar system targets
View Details

Time-Series Observations
Request assistance making time-series observations (e.g., ...)
View Details

WebbPSF / JWST Telescope
Request assistance with the WebbPSF tool or the Telescope
View Details

JWST General Support
Request general JWST support for issues not covered by another ...
View Details

MAST Archive Support
Request general Archive support for issues not covered by ...
View Details

4. After submitting your question, you will see your ticket under "My Open Tickets" in the top menu bar. You can view and update your tickets here. You may add an attachment or a collaborator to the "watchlist" (the collaborator will then receive all future updates to the ticket in an email. Note: you can add also someone to watchlist when you first submit your ticket).

Agent working on this Incident:

Number State
INC0020577 Resolved

Created Watch list
2y ago

Updated
2y ago

▼ Options

Add to Watchlist

Enter an email address to follow

Enter an email address here

Add

Attachments



Drop files here