



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

JDox Post-Commissioning Status

Data Analysis Support & Preparations for Cycle 2 Proposals
8/25/22

JDox Has Addressed User Feedback


The JDox team worked with OPO and IT Services on webpage improvements:


- Better use of home page real estate
- Easier to find PDFs, videos, and latest updates
- Breaking news button
- Side menu still includes a full outline/page tree
- New look and feel as an added bonus
- Speculated that navigability issues stem from users adopting narrow browsers (+phones, tablets)
 - Navigation button to bring up side menu is now more obvious


Welcome to the
JWST User Documentation Homepage

This website holds a comprehensive collection of documentation (known as JDox) on the JWST spacecraft and instruments, preparing observing proposals, and getting started on data analysis.

BREAKING NEWS


[Latest JDox Updates](#)


[Video Tutorials](#)


[PDF Documentation](#)

About JWST

- Hardware
- Characteristics
- General Support

Instruments

- Mid Infrared Instrument
- Near Infrared Camera
- Near Infrared Imager and Slitless Spectrograph
- Near Infrared Spectrograph

Proposing Tools

- Exposure Time Calculator
- Astronomer's Proposal Tool
- Other Tools

For Proposers

- Getting Started
- Opportunities and Policies
- Methods and Roadmaps
- Recommended Observing Strategies
- Example Science Programs
- Duplication Checking

Data

- Getting Started
- Data Artifacts & Features
- Understanding Data Files
- Accessing Data
- Data Calibration Considerations
- Science Calibration Pipeline
- Calibration Pipeline Caveats
- Post-Pipeline Data Analysis
- Data Support Videos

Additional Resources

[JWST for Scientists Website](#)
[JWST Observer YouTube Channel](#)
[JWST Pocket Guide](#)

[Technical Reports](#)
["Read the Docs" \(Data Calibration and Analysis\)](#)
[Mikukiki Archives](#)

Technical Reports

"Read the Docs" (Data Calibration and Analysis)

Navigation

Completed in Fall 2021



JWST Data Analysis Documentation in JDOx



Coordinating sources of JWST Data-related Documentation

| Topic | Primary Location | Contributors | JDox Coordination |
|---|---|--|---|
| Obtaining Data | MAST Documentation | MAST team | Fully written in JDox before the general MAST documentation was written. Some needs to be excised. |
| Pipeline details, parameters, algorithm | readthedocs | Pipeline Software Developers | High level summary of pipeline stages in JDox links to readthedocs for details. References to JWebbinar notebooks and videos |
| Data characteristics, artifacts, etc. | JDox | STScI Instrument teams and telescopes group | n/a |
| Pipeline Caveats, recommended strategies, calibration reference files | JDox | STScI Instrument teams | Many links from JDox to readthedocs |
| Data Analysis tools and notebooks | JDox | STScI Instrument teams, technical staff, and software developers | Links to github, videos, Webbinars, etc. |
| Calibration Results | JDox Not available yet | Calibration working group (instrument teams) | Links to technical reports |



A Tour of the new JDOx Data Pages

The main goals of new data pages are to:

- Provide breaking news and updates in the early months of Cycle 1
- Identify artifacts (snowballs, ghosts, claws, light sabers, glow sticks....)
- Discuss known limitations of the pipeline and needed workarounds.
- Inform users about reference files, e.g. how to check pedigree of calibration

All of these goals were addressed a new release on 7/12/22.

Articles are not static– more information is being added as it is learned.



Preparation for the Cycle 2 Call For proposals



Preparing the Community for Cycle 2 Proposals – On Orbit Updates

- Performance (sensitivity, PSFs, pointing accuracy, saturation, artifacts). Replace predictions with known quantities.
- Observational recommended strategies (target acquisition, dithers, backgrounds, artifact mitigation strategies). Have recommendations changed? Are there new ones?
- Example Science Programs (ETC, APT walkthrough for specific science cases, including ETC workbook and APT file). Update with new sensitivities.
- APT/ETC pages – ensure consistency with latest releases
- Roadmaps (i.e. proposal checklists)
- Calibration information as pertinent to proposing

These updates are dependent upon analysis of commissioning and early Cycle 1 calibration data. This is not done yet.



Schedule for Cycle 2 Proposing Updates

| Date | Milestone |
|--------------|--|
| September 15 | <ul style="list-style-type: none">• JDox working group compiles list of changes needed. Prioritize, file tickets to track work, scope the effort.• ETC Reference Files delivered by Instrument Teams, to ETCWG. Leaves 2 weeks to verify reference files and set up release candidate for internal testing. |
| Oct 1 | <ul style="list-style-type: none">• Information required for performance updates must be available.• ETC test server using updated reference files/throughputs should be available internally (used for JDox and pocket guide updates) |
| October 18 | <ul style="list-style-type: none">• All updates should be entered in JDox. 1 week for editorial review, iterations, and NASA review of significant changes |
| October 25 | <ul style="list-style-type: none">• JDox Proposal Related content is frozen, leaving 1 week to make PDFs |
| November 1 | <ul style="list-style-type: none">• PDF JWST “Handbooks” delivered to GSFC, as required. |
| November 7 | <ul style="list-style-type: none">• Draft of the updated pocket guide available for review and minor revisions. |
| November 15 | <ul style="list-style-type: none">• Cycle 2 Call for Proposals Released• JDox Published with all Cycle 2 updates• Updated pocket guide released |

Data processing, calibration, and analysis pages *that do not affect proposing* will be granted an exception to the documentation freeze. The same approval process that we used in Cycle 1 will be in effect.



Questions?
