

Archive User Support

Introduction

[MAST](#) staff members assist science users of JWST data (and data from other hosted missions) with searches, notifications, the use of visualization tools, and standard or scripted data access and retrievals. Archive Contact Scientists will in addition assist JWST Observer teams and Archive Researchers with the preparation of high level science data products to be hosted at MAST.

User support for MAST

[MAST](#) archive staff members assist the general science community with searches for data, visualization with [Portal](#) components, data retrievals, and also assist Principal Investigators with establishing authorization for their team members to access to their proprietary data. Archive **Contact Scientists** assist JWST PI and Archival Research teams in preparing [High-Level Science Products \(HLSPs\)](#) that will be hosted by MAST.

High level science products

HLSPs are required deliverables of funded JWST *Archival Research* programs, and possible outcomes of [Early Release Science](#) programs, but are encouraged from any science team that uses JWST data as a part of their research. These data products should provide substantial science value to the general astronomical community, and have broader appeal beyond the original scope of the science goals for a particular program, or should provide technical insight into the preparation or execution of future science or calibration programs.

HLSPs are those derived at least in part from JWST (or other hosted mission) data holdings. These products generally include measurements of astrophysical target:

- locations
- brightnesses
- shapes
- timeseries
- spectral feature or light-curve characterizations

or other scientific attributes; or are:

- stacks,
- mosaics,
- or other combinations

of images or spectra that are not produced by the standard processing pipelines. HLSPs for JWST may be composed or derived from non-JWST data, including ground-based data, provided that they are critical to the goals of the primary JWST program.

Requirements for HLSP contributions

In order to enable meaningful searches on contributed datasets, and to provide a consistent and comprehensive set of metadata to users, there are a variety of requirements and recommendations for contributed datasets, in the following categories:

- Acceptable data formats and data organization
- Metadata content
- File nomenclature
- Data provenance

See the specific [guidelines for contributing HLSPs to MAST](#) for details.

Contacts

MAST users who need assistance with archived data, or with the use of any of the related tools, should reach out to their Archive Contact Scientist (if applicable), or the **MAST HelpDesk** at archive@stsci.edu.

References

[MAST Guidelines for HLSP Contributions](#)

[MAST YouTube videos of the Data Discovery Portal](#)