MAST HLSP

High Level Science Products are community-contributed data that relate to a MAST-supported mission. These can include images, spectra, catalogs, linelists, time series, models and simulations.

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MAST High-Level Science Products M https a archive.stsci.edu/hlsp/index.htm

Barbara A. MIKULSKI ARCHIVE & SPACE TELESCOPES

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As of April 13, the archive is now using the STScI Single Sign-On (SSO) identity manager. To check on your account click here. For more information about how accounts were transitioned click here.

High Level Science Products

High-Level Science Products (HLSP) are community contributed, fully processed (reduced, co-added, cosmic-ray cleaned etc.) images and spectra that are ready for scientific analysis. HLSP also include files such as object catalogs, spectral atlases, and README files describing a given set of data.

Search below to find HLSP of interest by product, object type, and/or wavelength. Select more than one item in each list by using the shift and the control keys. Click on the "search" button for a list of the products for that project. The title of the project is a link to more information about the project. You may search for specific targets by using the HLSP search page. You may also be interested in more information about download options, MAST encourages the submission of HLSP based on data from its missions. Please consult the Guidelines for Contributing HLSP for more information.

Select Product Type

Select Object Type

Catalog
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AGN Dust Extragalactic Galactic Galaxy: Evolution Galaxy: Field Galaxy: Formation Galaxy: Halos Galaxy: High Redshift

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Catalogs

A Cataclysmic Variables and Related Objects Ultraviolet Spectral Catalog (CVARO-UVSCAT) PI: Patrick Search Godon

- A Catalog and Atlas of Cataclysmic Variables PI: Ronald Downes
- Search ACS Nearby Galaxy Survey PI: J. Dalcanton
- All-Sky Mapping of the UV Diffuse Radiation As Observed by GALEX PI: Jayant Murthy
- Archive of Nearby Galaxies: Reduce, Reuse, Recycle (ANGRRR) PI: Julianne Dalcanton Search
- Bianchi, Conti, Shiao (BCS) Catalog of Unique GALEX Sources PI: Luciana Bianchi

Select wavelength

ID

Near IR

Optical

X-Rav

None

Ultraviolet

GLASS

Cycle 21 HST program to survey 10 galaxy clusters using grism spectroscopy. A total of 140 primary orbits and 140 parallel orbits.





Frontier Lens Models

Lensing models from 7 teams for the six Frontier Fields. Includes shear, mass surface density, lensing deflection and image magnification.

Hubble Frontier Fields lens model magnification estimates Calculated at your input redshift(b) based on the mass and shear maps submitted by each team (see lensing everalous) Lens model main page This page in new window Single lenses database List of lensed galaxies: RA, Dec, z, (optional) mdits List of lensed lenses on the lense of models of lenses on the lense of models of lenses on the lense of models, yiekling List bood lenses on the lenses on the lense of lenses on the lense of models, lenses on the lense of lenses on the lenses on the lenses of lenses on the lenses on the lenses on the lenses of lenses on the lenses on the lenses of lenses on the lenses on the lenses		[Click to close x]	
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K2SFF & K2VARCAT

Extracted and calibrated light curves for K2 targets from Vanderburg et al. (K2SFF) and Armstrong et al. (K2VARCAT). **K2VARCAT** also includes variability classification.





LEGUS

HST Treasury Program to image 50 nearby galaxies in multiple colors with ACS and WFC3. The galaxies are resolved into stars, clusters, and associations.



WISP

A large HST pureparallel program using WFC3 grisms to obtain images, spectra, and catalogs of star forming galaxies at redshifts 0.5 < z < 2.5. A total of 385 fields will be observed.





PHAT

A multi-cycle HST program to map 1/3 of Andromeda in 6 filters from the UV to NIR. The disk is resolved into > 100million stars. The observations are grouped into 23 "bricks".





UV-BKGD

An all-sky mapping of diffuse UV background, in FUV and NUV, using GALEX data. Includes estimates of geocoronal and zodiacal foreground per pixel. Maps are 2x2 arcminute grids.



CLASH

An HST survey of 25 massive galaxy clusters using WFC3 and ACS. Includes mosaics, source catalogs, and lensing models, along with Subaru mosaics and source catalogs from ground-based imaging.





OPAL (Outer Planets Atmospheres Legacy)







Deep 47 Tuc



Hubble Heritage





Credit: NASA, ESA, and S. Rodney (JHU) and the FrontierSN team; T. Treu (UCLA), P. Kelly (UC Berkeley), and the GLASS team; J. Lotz (STScI) and the Frontier Fields team; M. Postman (STScI) and the CLASH team; and Z. Levay