



JANUARY 2019

## MAST NEWSLETTER

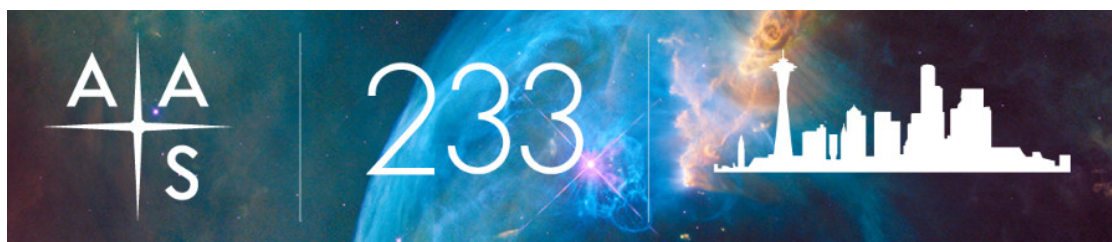
THE LATEST UPDATES FROM THE BARBARA A. MIKULSKI ARCHIVE FOR SPACE TELESCOPES AT

STSCI

### MAST AT THE 233<sup>RD</sup> AAS MEETING

MAST PERSONNEL WILL BE PARTICIPATING IN A NUMBER OF ACTIVITIES AT THE  
CURRENT AAS MEETING IN SEATTLE, WA.

JANUARY 7, 2019



A number of MAST staff members will be at the STScI booth (#613) for the AAS 2019 Winter meeting in Seattle, WA over January 6-10. We would be happy to talk with you and answer questions about various topics such as:

- Accessing data products from the first TESS mission data releases, and navigating all the associated MAST services.
- Accessing data from the more than 20 other active and legacy missions we support,

including HST, Kepler/K2, and Pan-STARRS.

- Using Amazon Web Services to access and analyze public HST and TESS data.
- Exploring MAST data holdings of exoplanet candidates through the new exo.MAST portal.
- How to archive refereed research data as a High-Level Science Product with MAST.

There will also be a number of workshops, talks, and posters detailing various capabilities of MAST's many services and future developments. Some of these presentations include:

Sat Jan 5	10:00- 11:30	Using Python to Search NASA's Astrophysics Archives	Tom Donaldson	Workshop
Mon Jan 7	16:00- 17:00	TESS Tools at MAST		Booth Demo
	17:30- 18:00	HST Data on AWS		Booth Demo
	17:30- 18:30	The JWST-MAST Spectroscopic Initiative	Marc Rafelski	Poster
	18:30- 20:00	STScI Town Hall		Town Hall
Tue Jan 8	09:00- 10:00	AstroCut: A Cutout Service for TESS Full-Frame Image Sets	Clara Brasseur	Poster
	09:00- 10:00	Interacting and Searching for TESS Data At MAST	Scott Fleming	Poster
	10:56- 11:03	Scientific Accessibility Through Astronomical Archives	Josh Peek	Talk
	13:30- 14:00	exo.MAST Walkthrough		Booth Demo
	16:30- 17:00	exo.MAST Walkthrough		Booth Demo

	17:30- 18:00	HST Data on AWS		Booth Demo
Wed Jan 9	15:30- 16:30	TESS Tools at MAST		Booth Demo
	17:30- 18:00	HST Data on AWS		Booth Demo
Thu Jan 10	09:00- 10:00	Hubble in the Cloud	Ivelina Momcheva	Poster

Event times are subject to change, so please check the [AAS Program](#) for any updates.

We also welcome your feedback and would be happy to discuss future tools and improvements you would like to see implemented in MAST services. AAS Meetings provide an excellent opportunity for us to gain valuable insights into the MAST user community through your direct input, so don't hesitate to stop by if you can. We look forward to seeing you there!

Back to top [✉](#) [🐦](#) [f](#)

## NEW AND UPDATED HLSPS FOR JANUARY

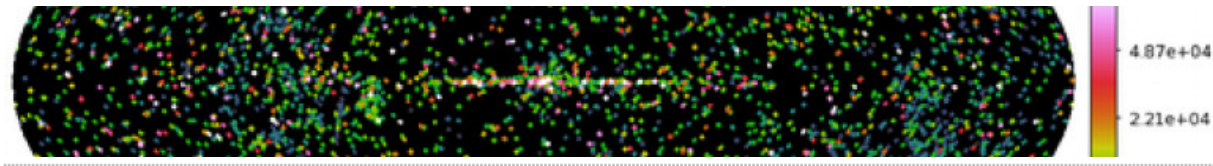
NEW AND UPDATED HIGH-LEVEL SCIENCE PRODUCT COLLECTIONS AT MAST INCLUDE A NEW CATALOG OF SWIFT UVOT SOURCES, THE FIRST TESS SECTOR 3 CANDIDATES, AND UPDATES TO FRONTIER FIELDS LENS MODELS AND K2SFF.

JANUARY 7, 2019



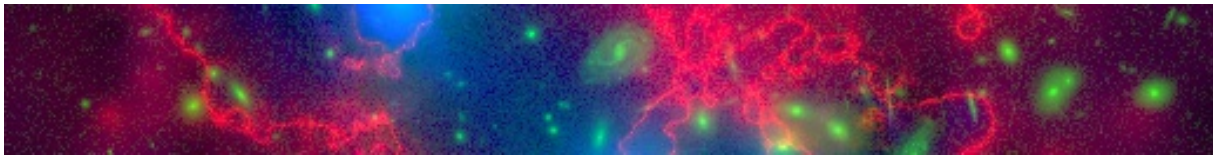
**NEW:**

- The **Swift UVOT Serendipitous Source Catalog (UVOTSSC)** presents sources detected in 23,059 UV and optical images taken during the first five years of Swift observations. The catalog contains positions, photometry, morphological information, and data quality flags for 6,200,016 unique sources in 3 UV and 3 optical bands. The catalog is available as direct download and through the MAST CasJobs interface.



#### UPDATED:

- The **Frontier Fields Lens Models** collection now includes updated version 4.1 models from Bradac et al. for Abell 370.



- The **K2SFF** (Vanderburg et al. 2014) collection now has calibrated lightcurves from K2 Campaign 18 available at MAST.



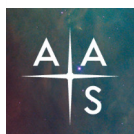
- The **Data Products from TESS Data Alerts** have been updated with new exoplanet candidates from Observation Sectors 2 and 3. These updates also include the first multisector candidates with sector 3 data.



If you are thinking about contributing a High-Level Science Product of your own, please fill out the HLSP Interest Form to get started. HLSPs archived on MAST enjoy permanent hosting space, additional visibility, and, often, increased citation rates. Any further questions on the process can be sent to the Archive Helpdesk.

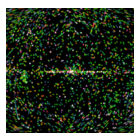
## MAST AT THE 233<sup>RD</sup> AAS MEETING

PETER FORSHAY



## NEW AND UPDATED HLSPS FOR JANUARY

SCOTT FLEMING



## ABOUT

This newsletter is a MAST publication produced by Greg Snyder, Peter Forshay, and Jonathan Hargis, on behalf of the entire MAST staff, who welcome your comments and suggestions.

The Mikulski Archive for Space Telescopes (MAST) is a NASA funded project to support and provide to the astronomical community a variety of astronomical data archives, with the primary focus on scientifically related data sets in the optical, ultraviolet, and near-infrared parts of the spectrum. MAST is located at the Space Telescope Science Institute (STScI).

[LEARN MORE](#)

