



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

STScI Town Hall

Nancy A. Levenson, Interim Director

AAS January 10, 2023



Overview

Agenda:

- General STScI updates including JWST and HST (Nancy Levenson)
- Habitable Worlds Observatory (Jason Tumlinson)
- Roman Core Community Surveys (Karoline Gilbert)
- ULLYSES Science Opportunities (Julia Roman-Duval)
- Q&A

Reminder: Slack channel #238_stsci_town_hall for questions

Visit the STScI booth throughout for details about all these topics, talk with grants administrators, find job opportunities, and more!

We're hiring!

MIRRORS



HUBBLE



ROMAN



WEBB

FIELD OF VIEW

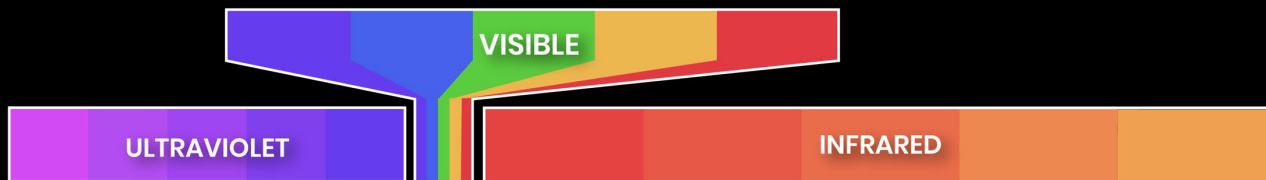
ROMAN
Survey Observations

WEBB
Targeted Observations

HUBBLE
Targeted Observations

STScI supports these missions, delivering data through MAST

WAVELENGTH

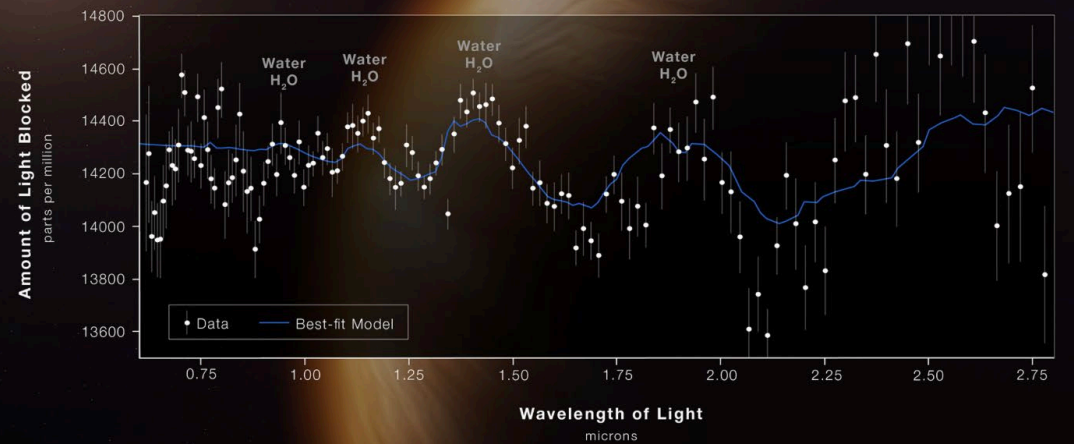




INSTRUMENT: NIRCAM, MIRI
Southern Ring Nebula



INSTRUMENT: NIRISS
Exoplanet WASP-96 b



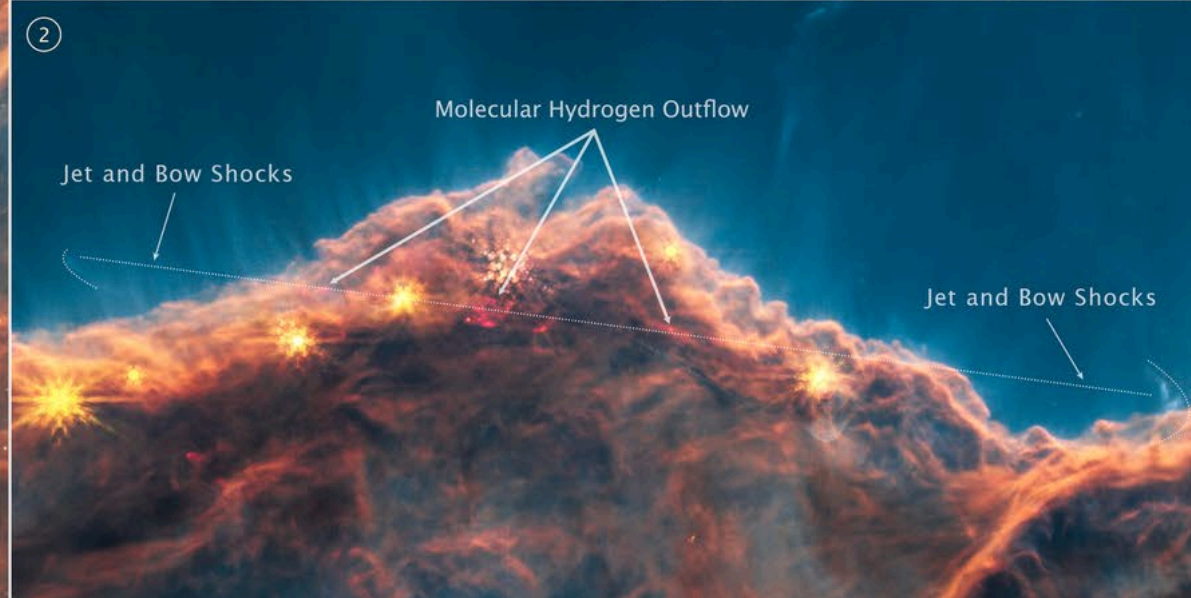
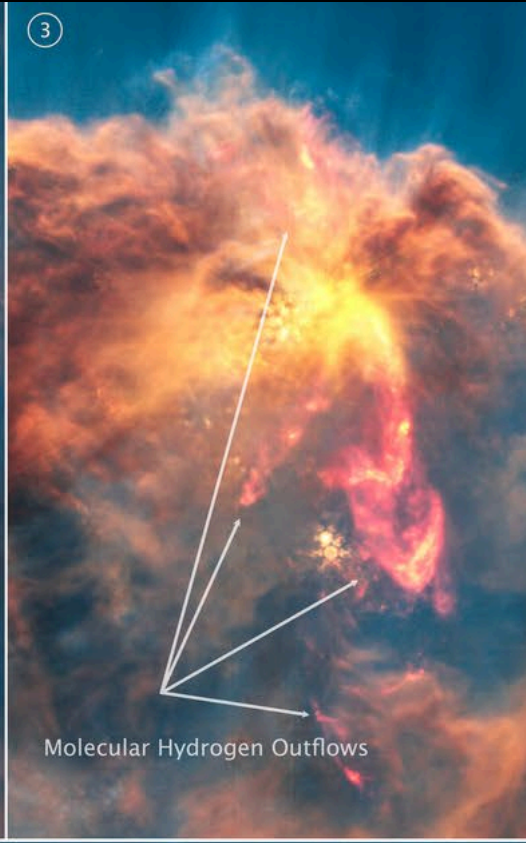
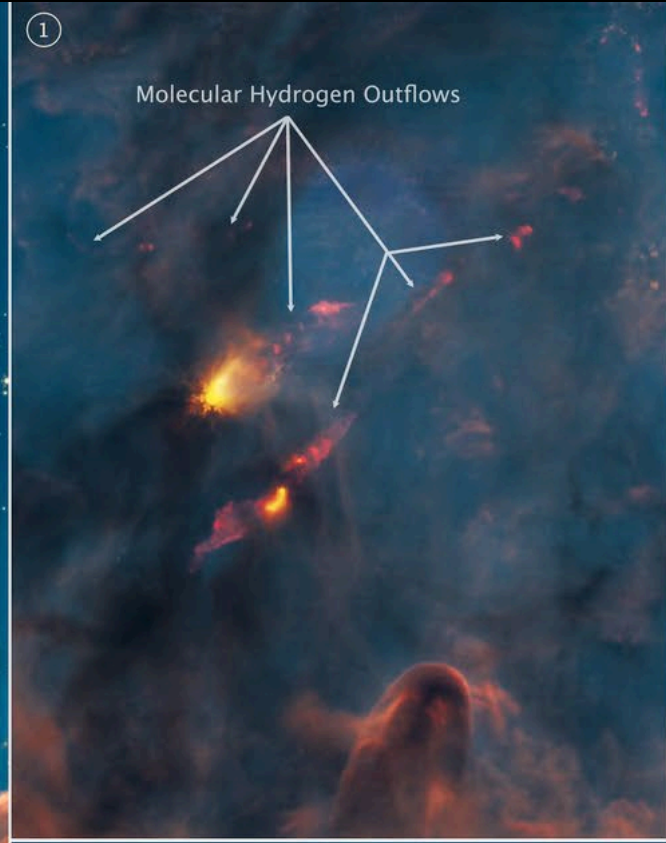
INSTRUMENT: NIRCAM
Webb's First Deep Field



INSTRUMENT: NIRCAM
"Cosmic Cliffs" in Carina



INSTRUMENT: NIRCAM MIRI COMPOSITE
Stephan's Quintet





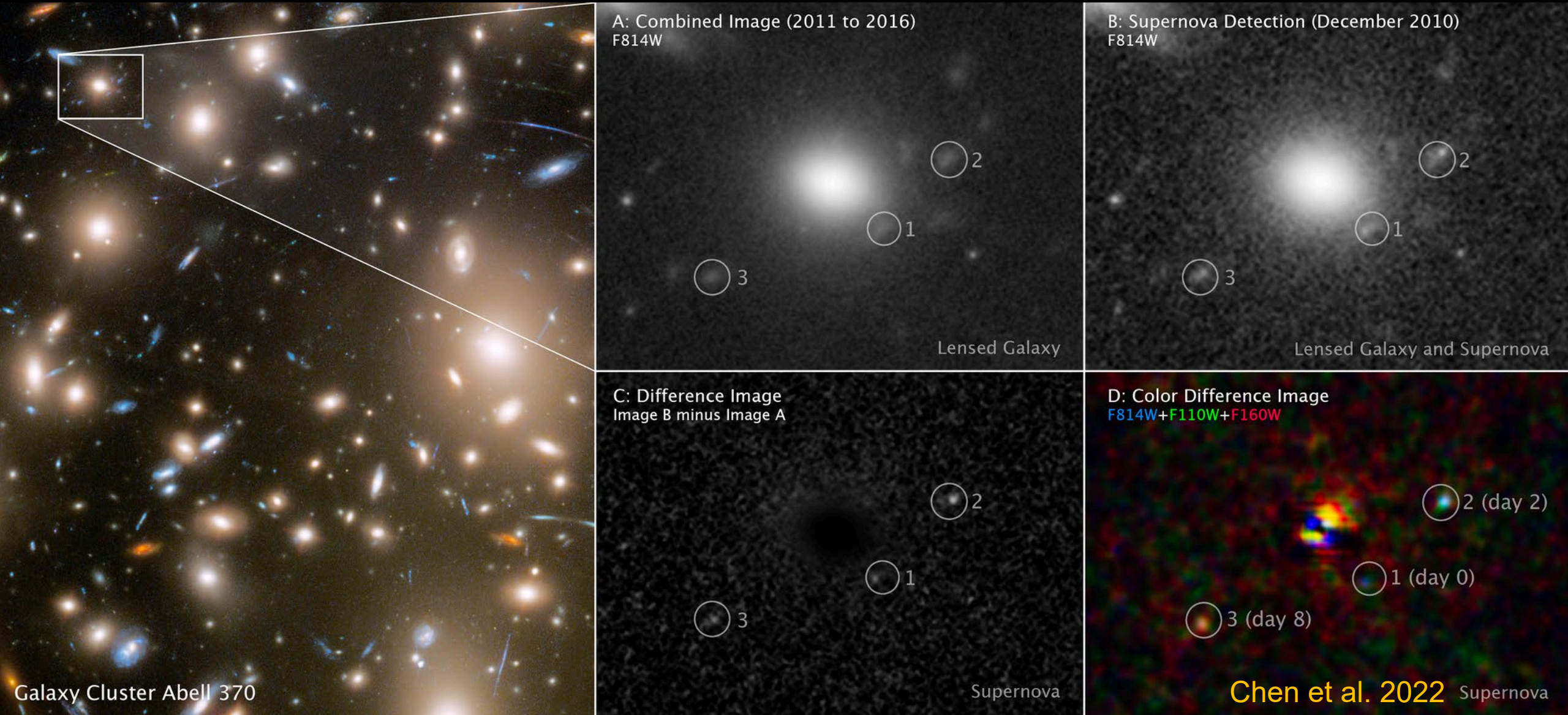
JWST Highlights

- Cycle 2 proposal deadline:
January 27, 2023
- Cycle 3 proposal deadline:
October 27, 2023
- One Year of JWST Science conference:
September 11–15, Baltimore

- Starting point for information:
www.stsci.edu/jwst



HST observations of a lensed $z \sim 3$ supernova





HST Highlights

- HST continues to produce excellent science with all four instruments
- Cycle 31 proposal deadline: May 24
 - Call for Proposals in March; short cycle (10 months)
 - New ToO category for rapid activation: “Flexible Thursdays”
- Considering Multi-Cycle Treasury programs for Cycles 32–34
- STScI working with NASA and SpaceX on boost study

www.stsci.edu/hst

HST observation of asteroid impact

+22 MINS

+5 HRS

+8.2 HRS

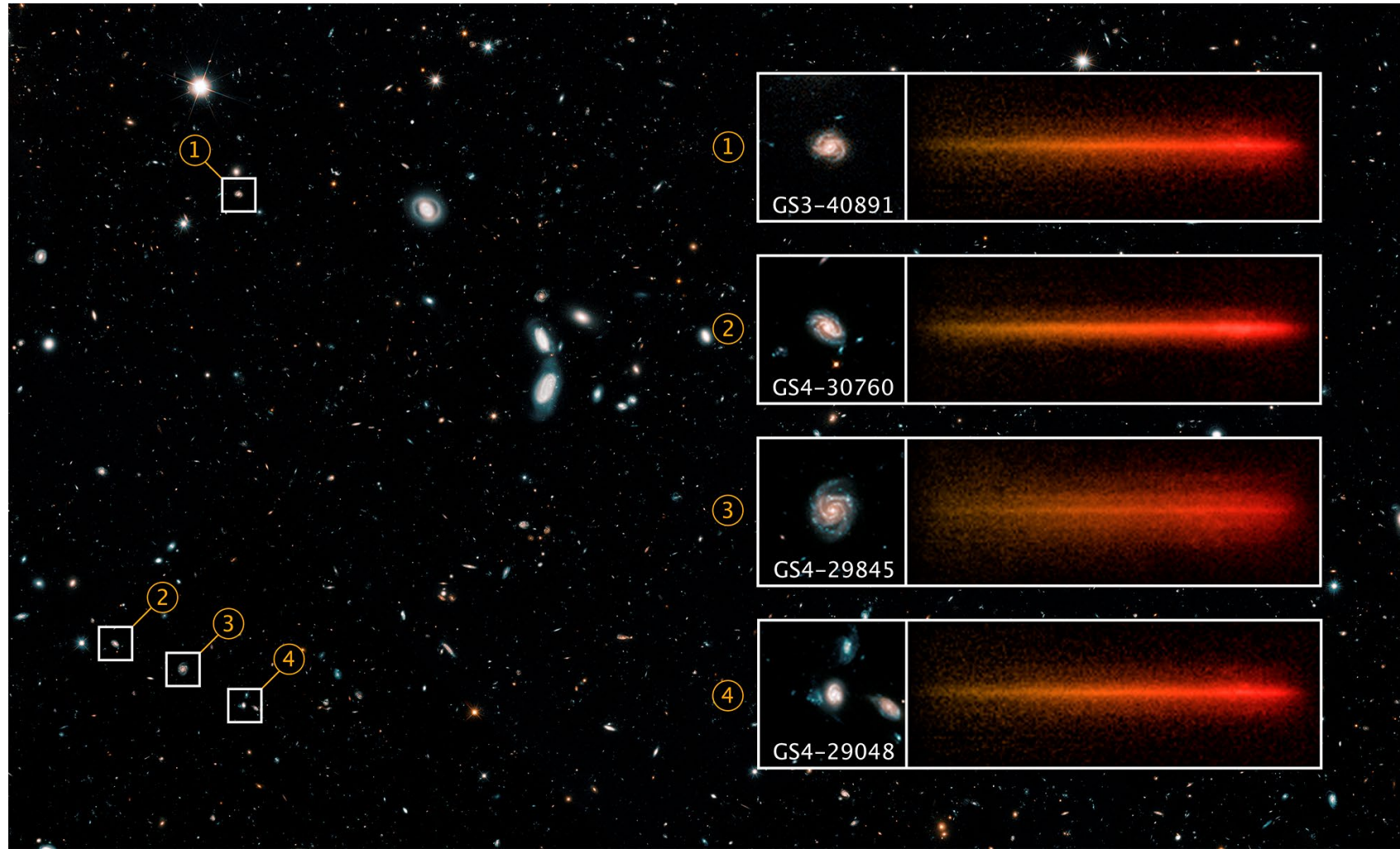




Opportunities with Roman

- large surveys for broad science
- funded science now
- technical contributions

- Roman Town Hall
 - tonight, 6:30PM



simulated Roman spectra from HST deep field



Two new Working Groups to leverage HST and JWST

Considering: priorities for future programs, new ways for STScI to support, and possibilities for Director's Discretionary programs

Long-term monitoring

- 30 years of HST baseline
- time dilation from distant Universe
- specific interest in a DD program for JWST Cycle 2

Strategic exoplanet observations

- What do we need to prepare for the next generation?
 - also to solidify the HST legacy and to make best use of new JWST capability
- What strategies should we adopt?
- Recommendations for a Cycle 3 DD program?

Community input through expert Working Groups

- Input to Neill Reid inr@stsci.edu by January 20





Thanks to our user and advisory committees

- Space Telescope Users Committee (STUC) [link](#)
 - chair: Beth Biller
- JWST Users Committee (JSTUC) [link](#)
 - chair: Mercedes Lopez-Morales
- Roman Space Telescope Advisory Committee (RSTAC) [link](#)
 - chair: Kristen McQuinn
- MAST Users Group (MUG) [link](#)
 - chair: John O'Meara

Communicate with the user committees to share your experiences.
Help us to better support your science needs!



Exclusive Access Periods (EAPs) on HST and JWST

- **No current plans to change HST or JWST EAPs**
- EAP changes require agreement from international partners
- We are surveying the community for your input on this topic; requests from our HST and JWST User Committees
- *We need to hear your voice*, so please fill out the survey even if you think someone else may have said what you want to say
 - For more details see the STScI booth and here
 - February 15, 2023 survey closes
- We anticipate presenting the results to the user committees and the community in mid-2023





Upcoming conferences at STScI

- Spring Symposium: Planetary Systems and the Origins of Life in the Era of JWST
 - May 16–19
- Royal Chemistry Society Faraday Discussion: Astrochemistry at High Resolution
 - May 31–June 2
- Roman Science Inspired by JWST Science Results
 - June 20–23
- One Year of JWST Science
 - September 11–15

Details to come:

- Science with the Habitable Worlds Observatory; ~summer 2023
- ULLYSES Workshop; late 2023



Work at STScI!



- Space Astronomy Summer Program ([info](#))
 - undergraduate internships in multiple areas (astronomy research, outreach, engineering)
 - apply [here](#) by January 31
- Research Postdocs ([info](#))
 - various application deadlines and specialties still open
- STScI Prize Fellowships and related ([info](#))
 - multiple opportunities for independent research and STScI support work
 - typical deadlines late in the calendar year
- Roman Mission Office Head ([info](#))
 - lead Roman work at STScI
 - deadline February 10
- STScI Director
 - Deadline 3 March, 2023
- Spectrum Bridge Program under development
- More info at the STScI booth

