



**STScI** | SPACE TELESCOPE  
SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

# STScI Town Hall

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Nancy A. Levenson, Interim Director

AAS January 10, 2023



## Overview

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### 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

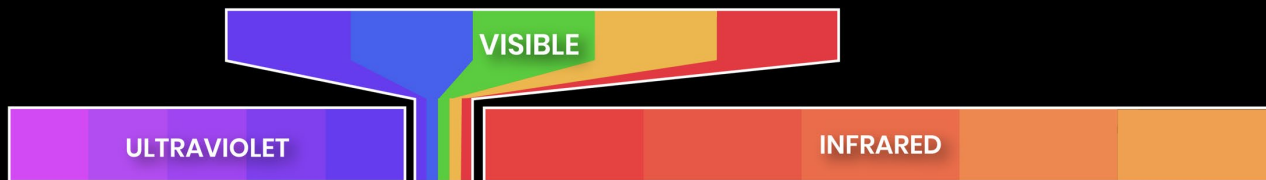
**ROMAN**  
Survey Observations

**WEBB**  
Targeted Observations

**HUBBLE**  
Targeted Observations

STScI supports these missions, delivering data through MAST

# WAVELENGTH

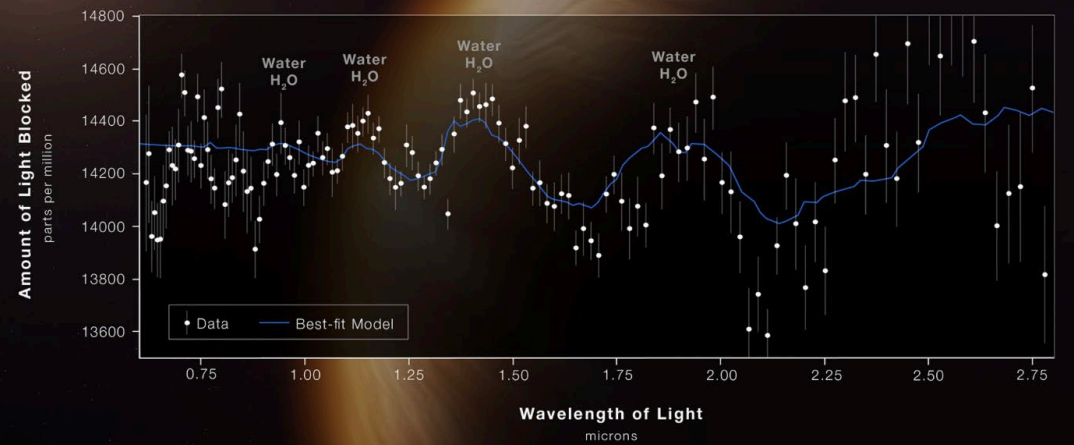




INSTRUMENT: NIRCAM, MIRI  
Southern Ring Nebula



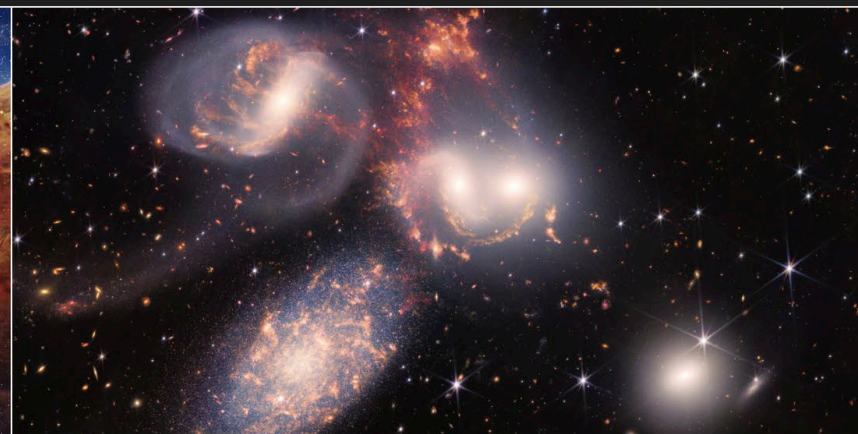
INSTRUMENT: NIRISS  
Exoplanet WASP-96 b



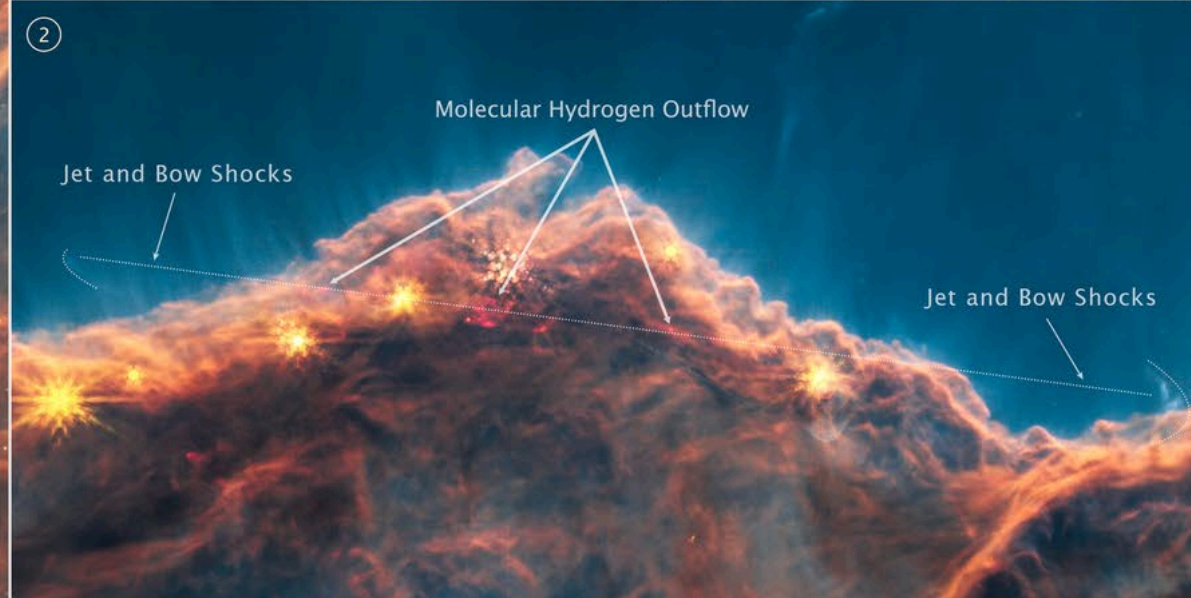
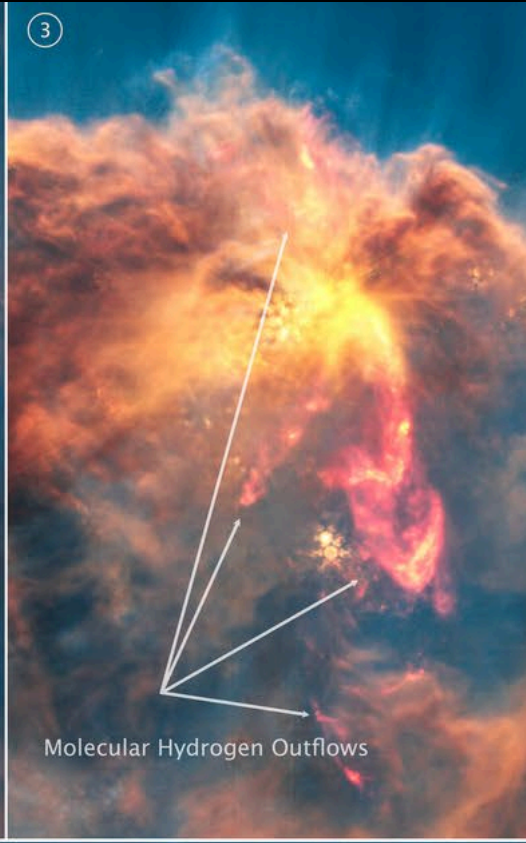
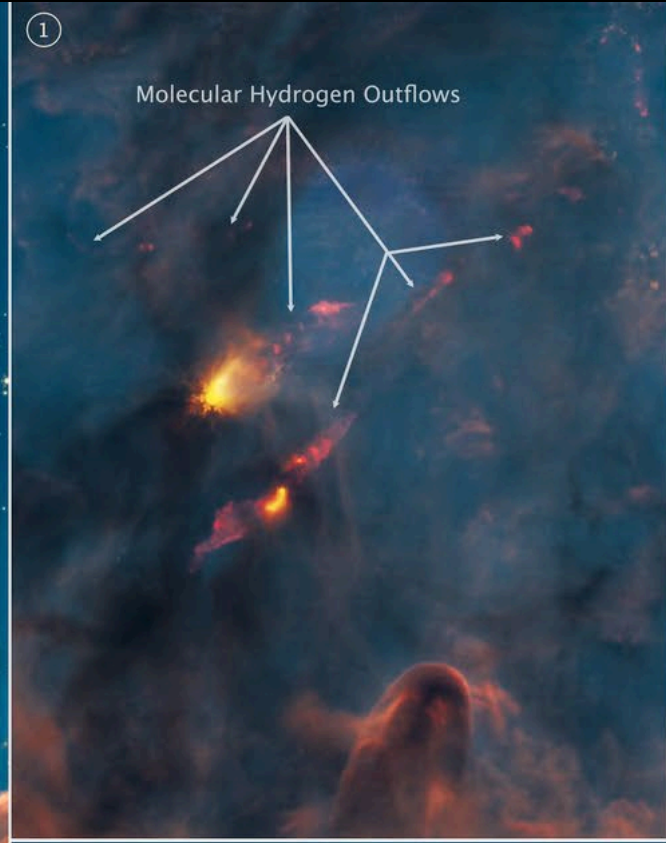
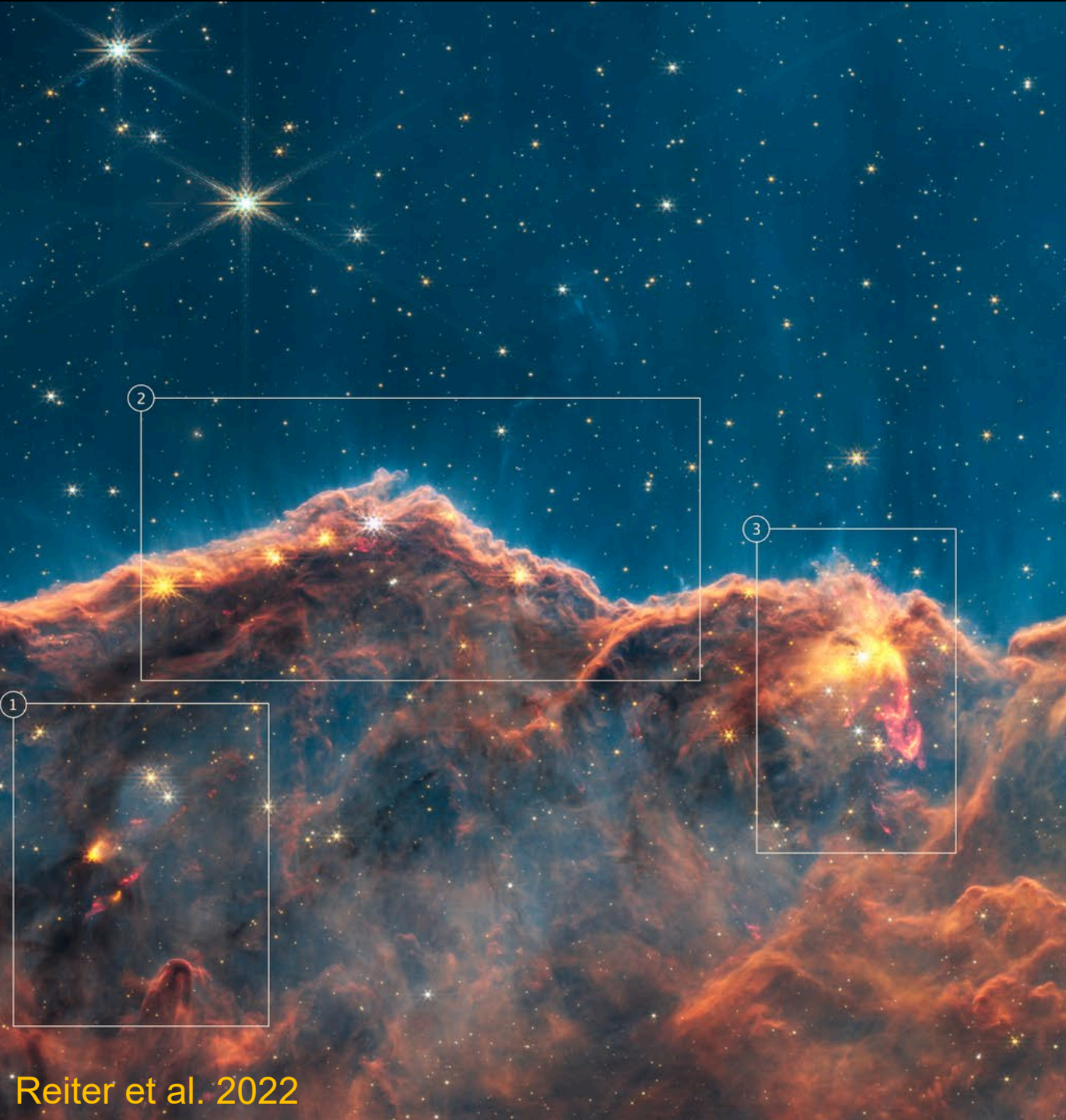
INSTRUMENT: NIRCAM  
Webb's First Deep Field



INSTRUMENT: NIRCAM  
"Cosmic Cliffs" in Carina



INSTRUMENT: NIRCAM MIRI COMPOSITE  
Stephan's Quintet





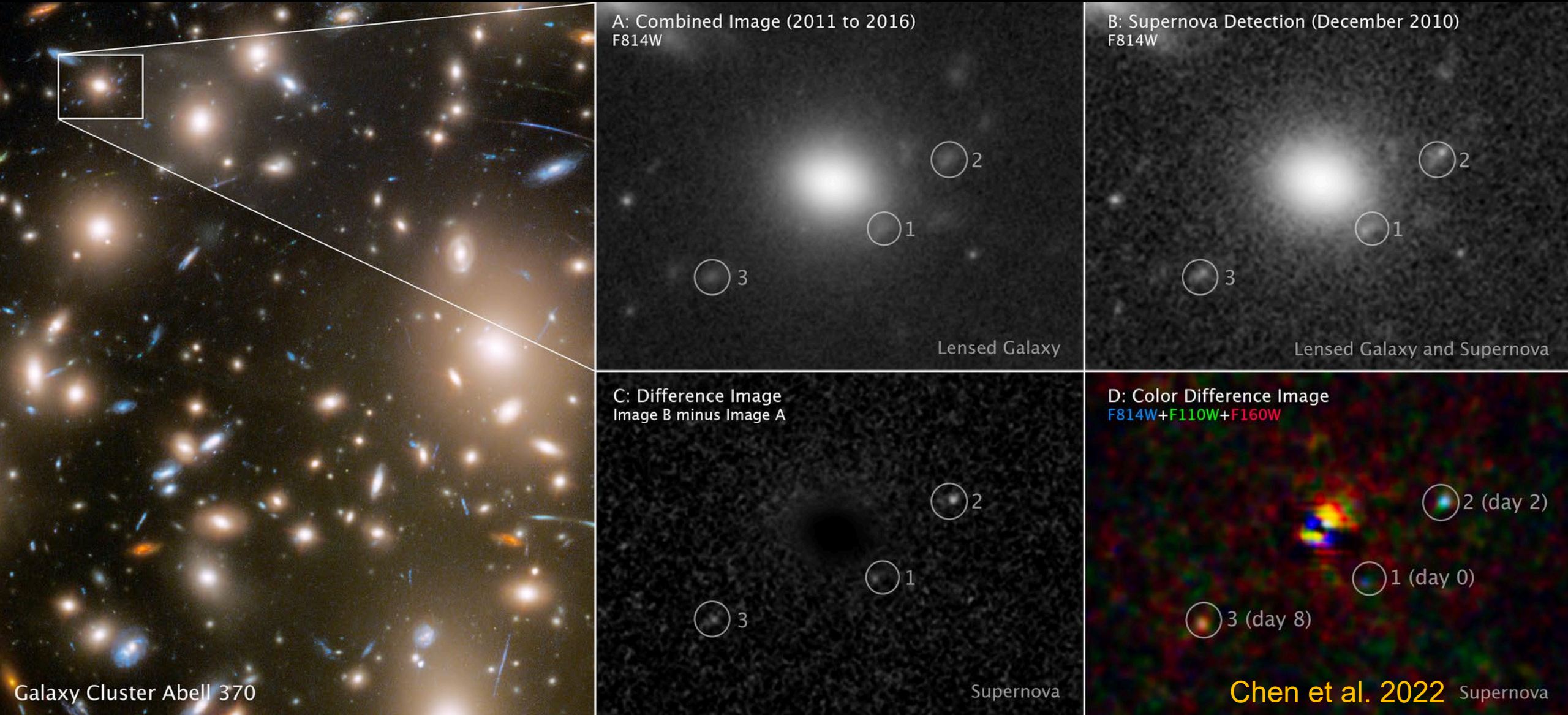
## JWST Highlights

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- 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](http://www.stsci.edu/jwst)



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



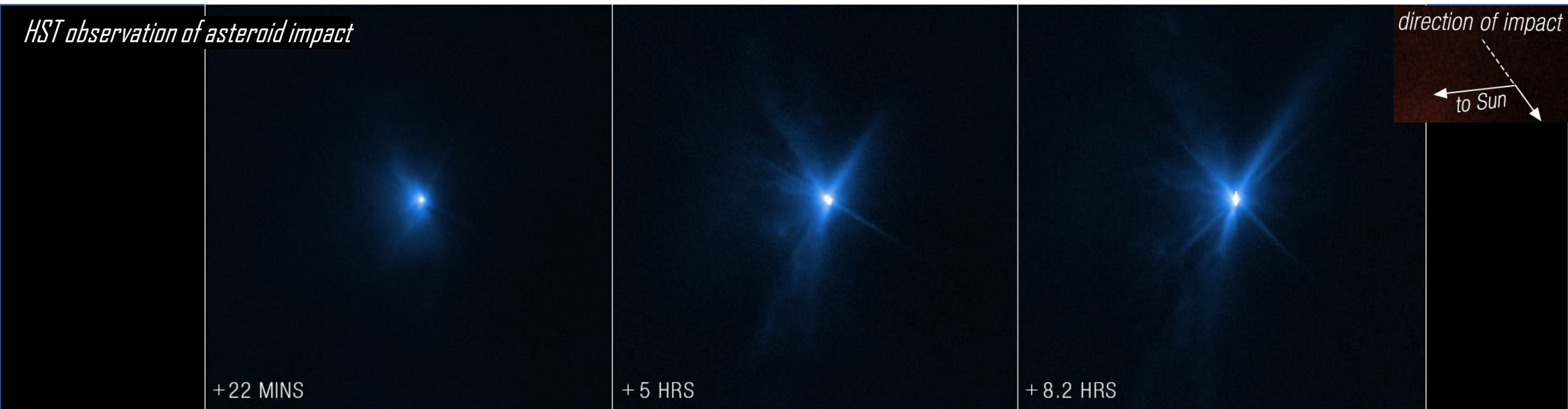


# HST Highlights

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- 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](http://www.stsci.edu/hst)



*HST observation of asteroid impact*

+22 MINS

+ 5 HRS

+ 8.2 HRS

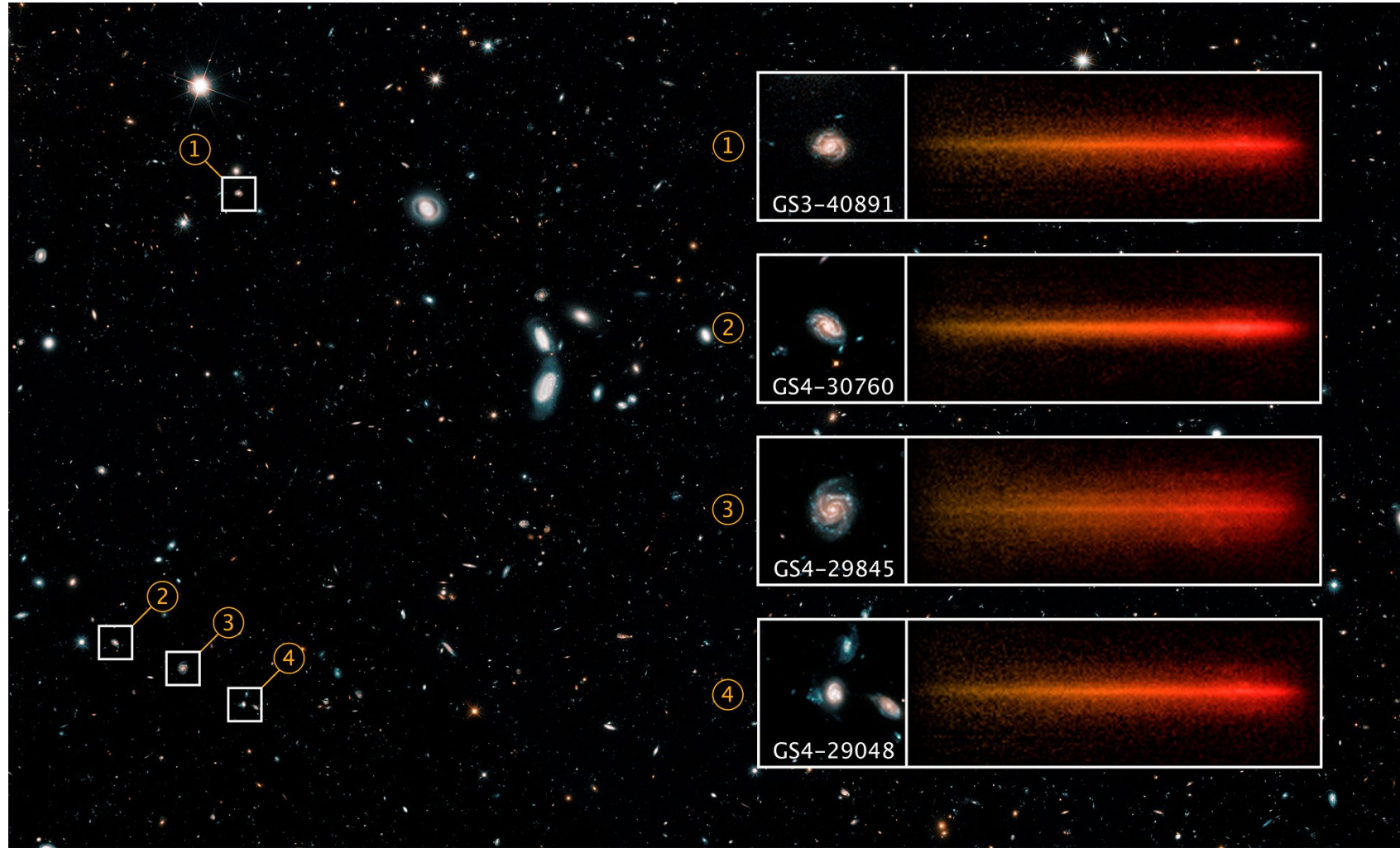
direction of impact  
to Sun





# 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

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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](mailto:inr@stsci.edu) by January 20





## Thanks to our user and advisory committees

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- 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

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- 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!

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- 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
  - information forthcoming
- Spectrum Bridge Program under development
- More info at the STScI booth

