



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

**EXPANDING THE FRONTIERS OF SPACE
ASTRONOMY**

STScI Town Hall Welcome

Kenneth Sembach
Director

AAS (Virtual) Meeting, June 2, 2020



COVID-19 Update at STScI

STScI is operating and “open” for business.

We are here to support and help you advance scientific discovery.

- Hubble, Webb, Roman, and MAST operations continue
- Some activities associated with the JWST Mission Operations Center were deferred but are now resuming

Some impacts:

- Spring symposium (*The Local Group: Assembly and Evolution*) rescheduled for early August
- John Bahcall lecture postponed until Spring 2021
- Some workshops and conferences deferred to later dates
- Spring colloquium series (engineering and science) canceled
- Committee meetings held virtually rather than in-person
- Hubble Space Telescope time allocation process held virtually



COVID-19 Update at STScI

Plans for the remainder of the calendar year include:

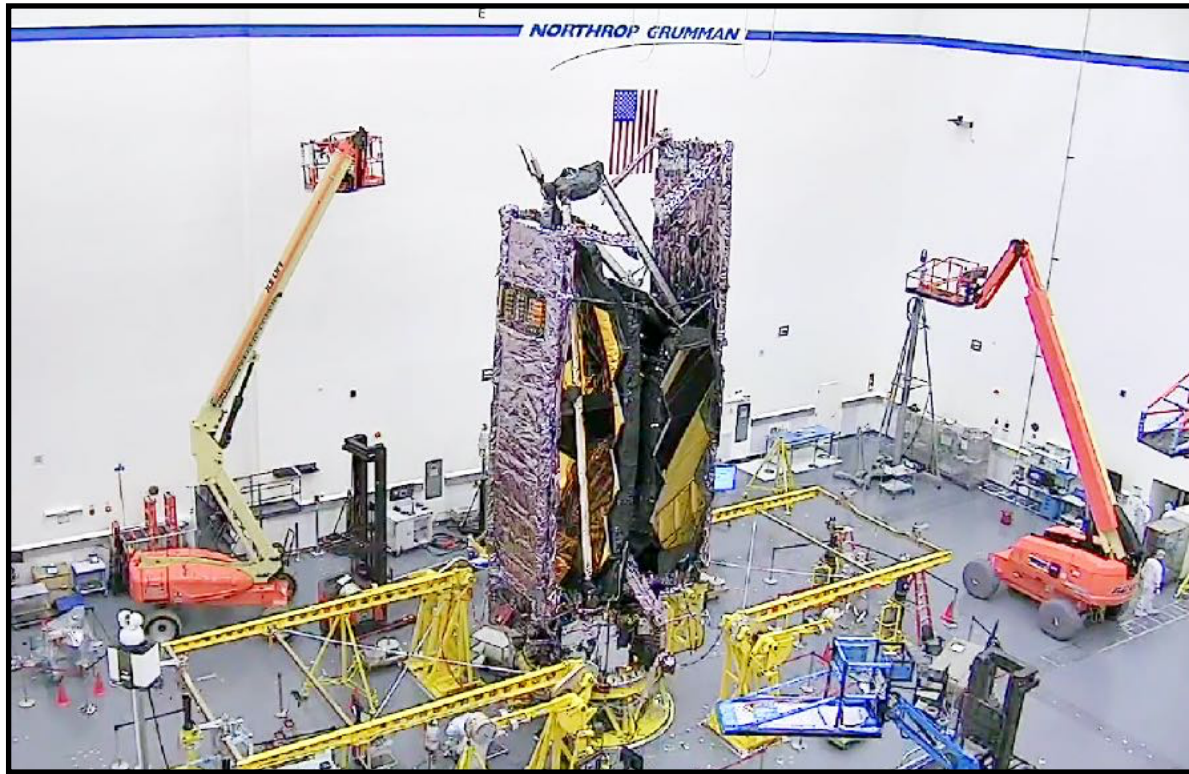
- Most Institute work will continue to be done from home
- Visitation to the Institute will be restricted
- Workshops and committee meetings will be held virtually
- Fall colloquium series will be held virtually and broadcast on-line

Please let us know how we can help you achieve your science.

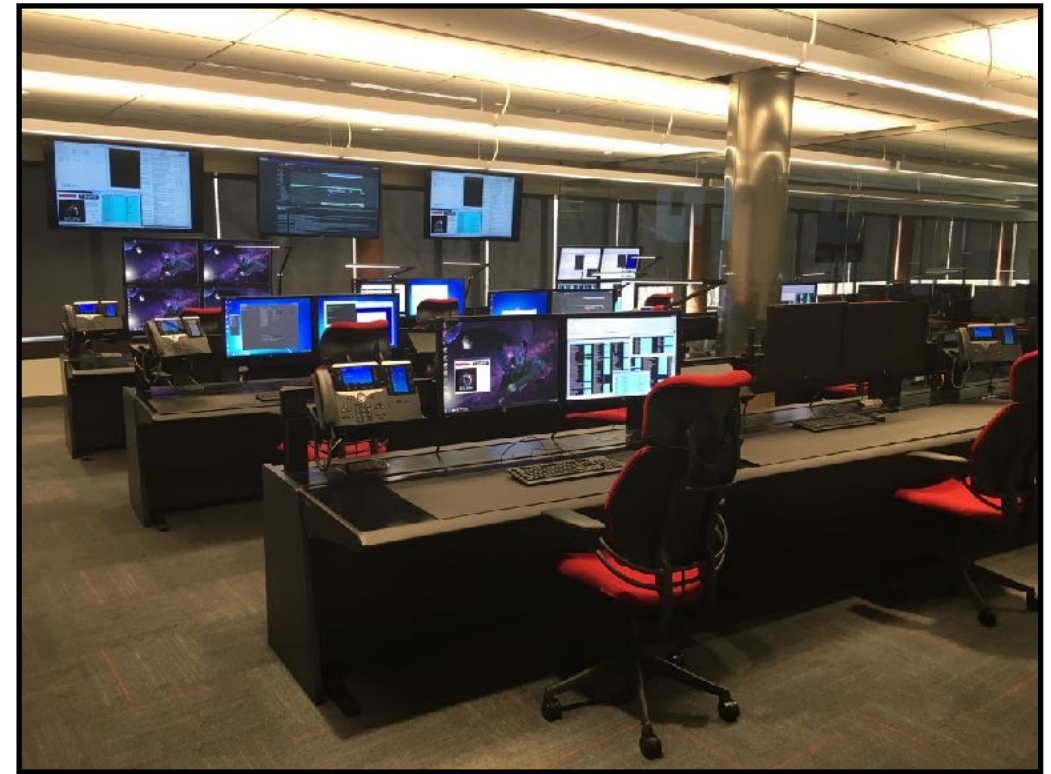
We are looking forward to seeing you in person, hopefully in the not too distant future!



James Webb Space Telescope - Looking Ahead to Launch



NASA's James Webb Space Telescope has been successfully folded and stowed into the same configuration it will have when loaded onto an Ariane 5 rocket for launch next year. (Credit: NASA, Northrop Grumman, May 14, 2020)



The JWST Mission Operations Center at STScI will be resuming activities this month, beginning with preparations for the next major ground segment tests in support of the Integration & Test flow to launch next year.



James Webb Space Telescope - Cycle 1 Planning

STScI, NASA, ESA, and CSA have decided to delay announcing a formal schedule for JWST Cycle 1 GO/AR proposals.

- Next update - mid-late July
- The JWST launch schedule is evaluated independently by NASA.

We are exploring options for a proposal deadline in the fall with the Telescope Allocation Committee meeting in early 2021.

- Discussing timing and implementation options with the JWST Users Committee (JSTUC)
- Will provide at least 12 weeks advanced notice of the revised Cycle 1 proposal deadline
- Call remains open, and observers continue to have access to tools, documents, and help



SK-67 167 (O4 Inf+)

**Ultraviolet Legacy Library of Young Stars as Essential Standards
(ULLYSES)**

Charting Young Stars' Ultraviolet Light with Hubble

See <http://www.stsci.edu/stsci-research/research-topics-and-programs/ullyses>

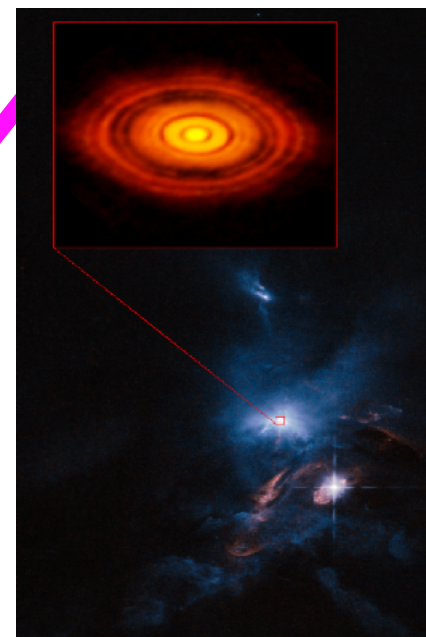
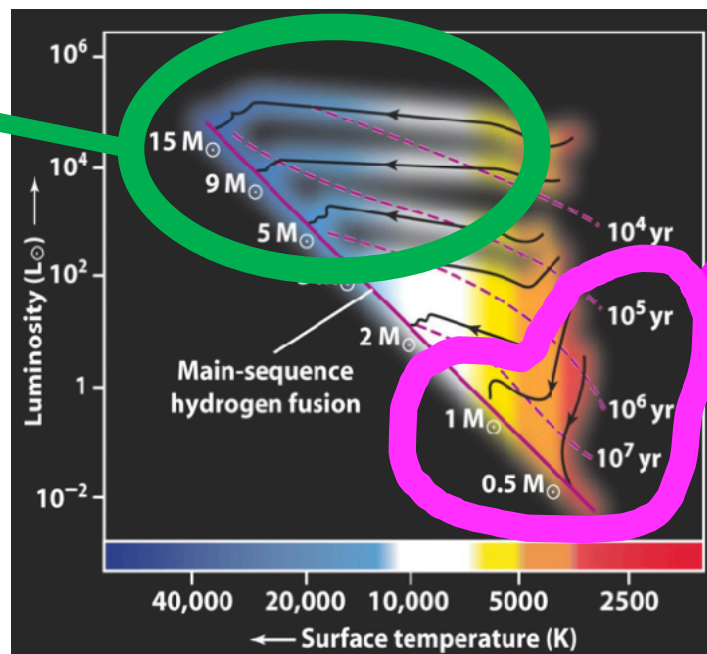


ULLYSES at a Glance

- Director's Discretionary Hubble program to obtain a spectroscopic reference sample of young low and high mass stars – Largest single HST program ever executed (~1000 orbits).
- The scientific framework of the program was designed by the community, via a UV Legacy Working Group and the program is being implemented by a dedicated team at STScI.



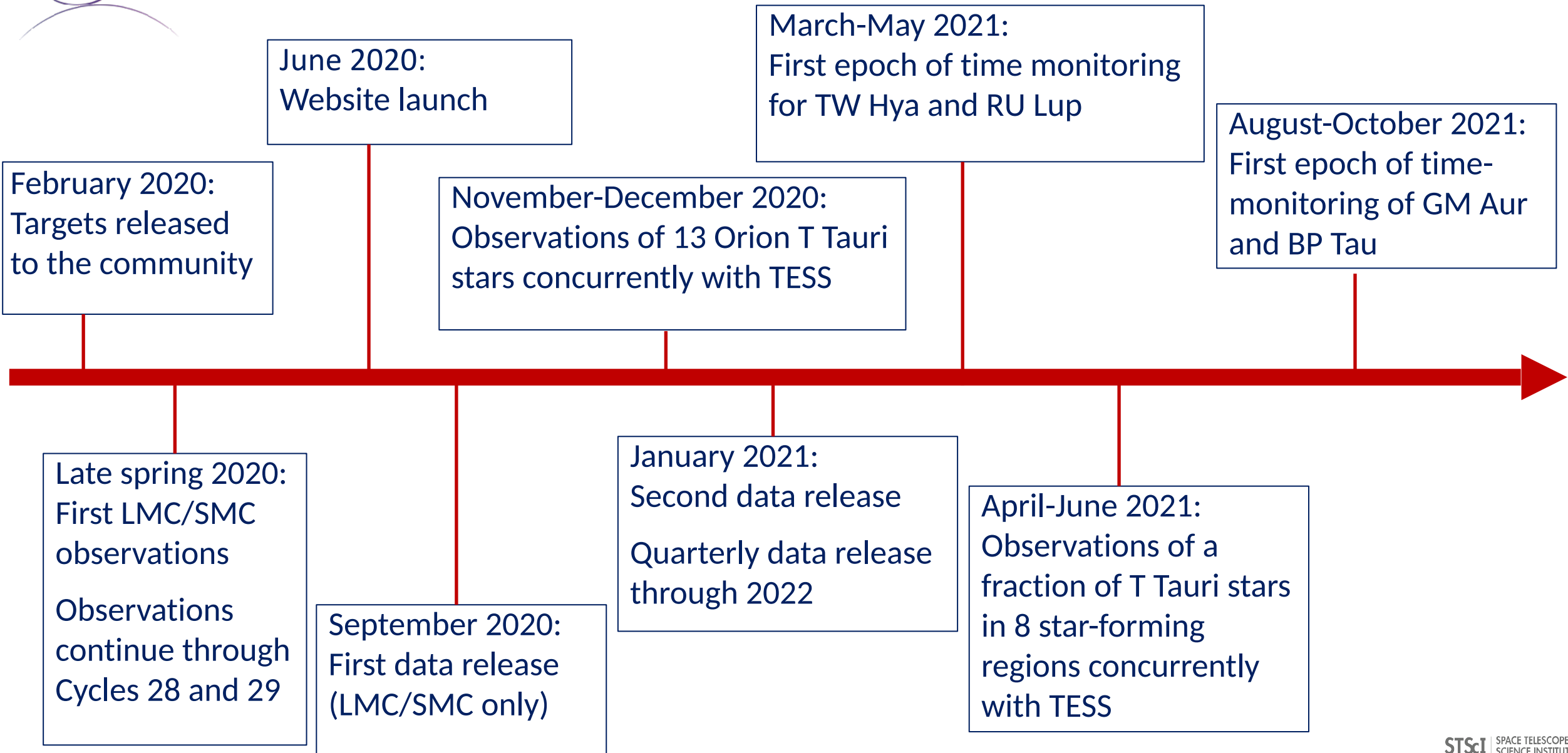
~500 orbits to extend the spectroscopic library of O and B stars to low metallicity (8-50% solar)



~500 orbits to obtain a spectroscopic library and time monitoring of T Tauri stars (younger than 10 Myr, mass < 1 M_o)



ULLYSES Timeline





WFIRST is Now the Nancy Grace Roman Space Telescope

Nancy Grace Roman – the “Mother of Hubble”
(May 16, 1925 - Dec. 25, 2018)

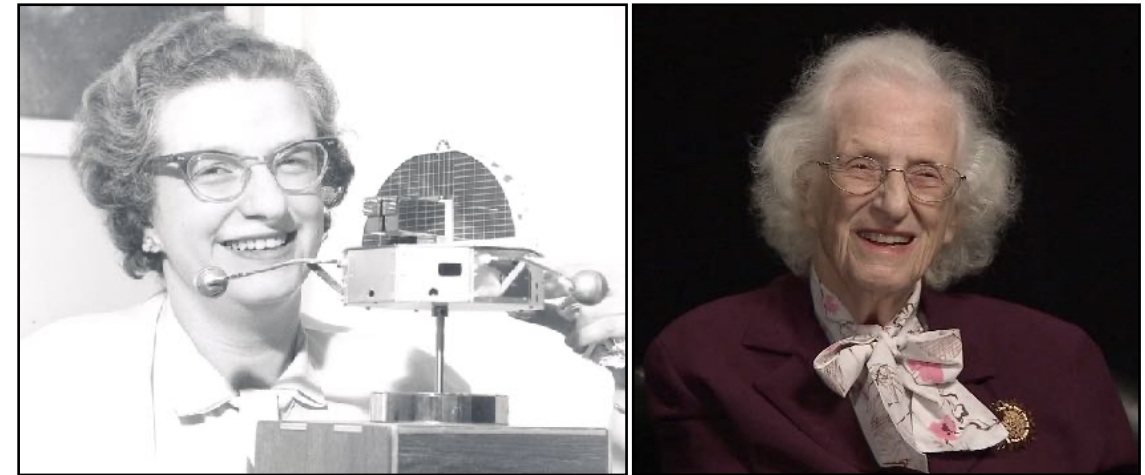
Scientist

- B.A. Astronomy - Swarthmore College
- Ph.D. - University of Chicago
- Honorary doctorates: Bates, Hood, Russell Sage, and Swarthmore Colleges
- First woman on the astronomy faculty at the University of Chicago
- Recipient of the NASA Exceptional Scientific Achievement Medal
- Numerous scientific awards and recognition

NASA Civil Servant

- First Chief of Astronomy and Solar Physics at NASA
- First woman to hold an executive position at NASA
- Driving force behind the OAOs, IUE, Hubble, and experiments on Gemini, Apollo, and Skylab
- Instrumental in establishing a new era of space-based astronomical instrumentation and research
- Namesake for Nancy Grace Roman Technology Fellowship in Astrophysics

Twitter: “Nancy Roman took chief astronomer job at NASA because *women couldn’t get tenure*, opted to reshape history of astronomy instead #planB.”



“It was Nancy in the old days...who really helped to sell the Hubble Space Telescope, organize the astronomers, who eventually convinced Congress to fund it.”
- Ed Weiler

Role Model and and STEM Advocate

Volunteer for “Reading for the Blind and Dyslexic”

Dedication to working with schoolchildren

Prolific public speaker on astronomy

Champion of women in astronomy

Inspiration to untold children and adults





Roman Space Telescope Advisory Committee (RSTAC, formerly WSTAC)

- Beth Willman (NSF's National Optical-Infrared Astronomy Research Laboratory) - Chair
 - Zach Berta-Thompson (U. Colorado)
 - Enzo Branchini (Roma Tre University)
 - Wendy Freedman (U. Chicago)
 - Josh Frieman (Fermilab)
 - Suvi Gezari (U. Maryland)
 - Lori Lubin (U. California-Davis)
 - John Mather (GSFC)
 - Kristen McQuinn (Rutgers, U. Texas)
 - Matthew Penny (LSU)
 - Adam Riess (JHU/STScI)
 - Zeljko Ivezic (U. Washington, LSST)
-
- Dominic Benford (NASA HQ, WFIRST Program Scientist, ex-offio observer)
 - Jeffrey Kruk (GSFC WFIRST Project Scientist, ex-officio)
 - David Spergel (Flat Iron Inst., WFIRST Wide-Field Instrument Adjutant Scientist, ex-officio)

Advises the STScI Director on optimum strategies and priorities, consistent with NASA policy, for the science program and science operations of the Roman Space Telescope in order to maximize the observatory's scientific productivity.

<https://www.stsci.edu/wfirst/about/wfirst-advisory-committee-wstac>



Seeking Your Input

We want and need to know how you will use the Nancy Grace Roman Space Telescope - please participate in an open community survey by June 15

<https://www.surveymonkey.com/r/P72X3DR>

The survey is designed to gauge your interest in, and to provide input into the process for defining, the Core Community Surveys for the mission.

- Examples: High Galactic latitude, Galactic plane, Galactic bulge, Ecliptic plane, various time series, ultra-deep field, etc.

We want to have as many members of the astronomical community participate as possible.



STScI Town Hall

Ken Sembach (sembach@stsci.edu)

Welcome

Joshua Peek (jegpeek@stsci.edu)

Science with large datasets at STScI

Karoline Gilbert (kgilbert@stsci.edu)

Hundreds of Hubbles in the 2020s - realizing the scientific potential of the Roman Space Telescope Archive

Louis Strolger (strolger@stsci.edu)

The Cycle 28 HST TAC

All presentations can be found at:

<https://outerspace.stsci.edu/display/AAS/STScI+Town+Hall+-+June+2+2020>