



Roman Project Status (selected highlights)

Wide Field Instrument

- Completed opto-mechanical assembly, including filter wheel installation and dry fit of engineering unit focal plane system
- Flight focal plane array in thermal vacuum test.
- Flight relative calibration system complete, and starting system level test

Coronagraph Instrument

Telescope

 The Primary Mirror Assembly (PMA) and Forward Structural Assembly (FSA) (with the Secondary Mirror Assembly) are complete.

Spacecraft

- Completed assembly of the spacecraft bus Primary Structure
- The Antenna Pointing System (APS) team completed acceptance testing of Flight Model 1 and 2 Gimbal Actuators.
- The Low Gain Antenna (LGA) Vibration Testing is complete.
- Remain on track for October 2026 launch readiness date



AAS Meeting – Jan 9-12

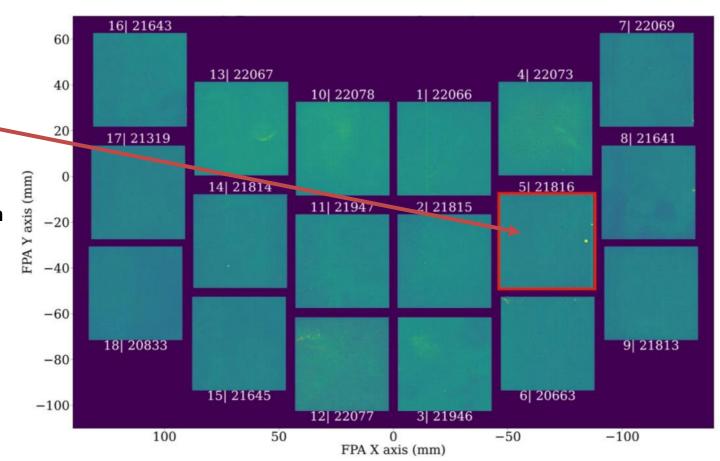
Plans for winter AAS meeting

- Roman Space Telescope Town Hall
 - Tuesday 6:30pm, rm 618/619
- Splinter session: Kickoff information session for core community survey definition
 - Community led Definition of Roman Core Community Survey
 - -Wednesday 1pm, rm 4C-3
 - Will be followed later in January by a virtual information session for people who cannot attend the AAS one
- Splinter session: Nearby Galaxies Under a New Light with Roman
 - Monday 1pm, rm 304



Triplet Test Data Now Available at MAST

- At the heart of WFI is an array of 18 sensor chip assemblies (SCAs) in a focal plane. Each SCA in the focal plane mosaic consists of a 4096x4096 pixel Teledyne H4RG-10 sensor.
- Each SCA has undergone extensive testing by the NASA GSFC Detector Characterization Laboratory (DCL).
- To support the science community in preparing for Roman data, the Roman Project has released triplet test data for SCA 21816.
- In a triplet test SCAs are connected to flightlike sensor control electronics using flightlike electrical cables (a triplet is sensor+electronics+cable)

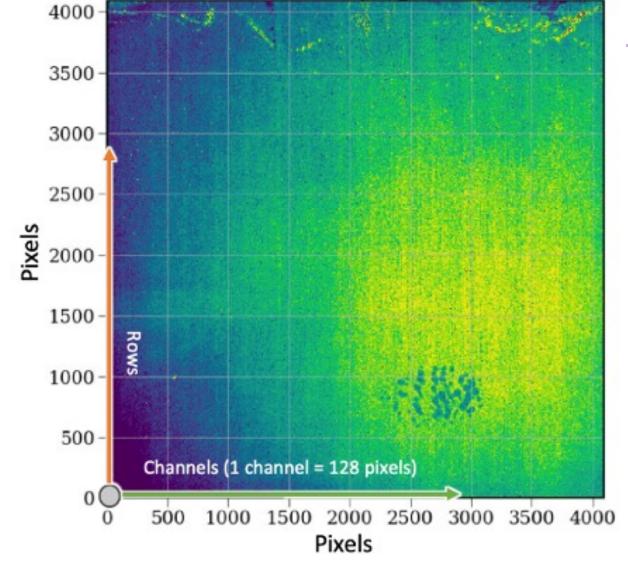


https://archive.stsci.edu/missions-and-data/roman/wfi-triplet-test-da



Triplet Test Data Now Available at MAST

- This release include release notes, a Getting Started Jupyter Notebook, and over 200 GB of data.
- These data products enable the measurement of:
 - Detector Linearity
 - Detector Read Noise
 - Detector Gain
 - Detector Dark Current
 - Flat Field Uniformity in each of the filters



An example of an image used to measure flat field uniformity.

https://archive.stsci.edu/missions-and-data/roman/wfi-triplet-test-da



Keeping in touch with Roman

Join the Roman news mailing list

sign up to the mailing list by sending an e-mail to <u>Roman-news-join@lists.nasa.gov</u> (no subject or text in the body is required)

Monthly Roman Community Forum

- Will be replaced by community survey definition information session
- https://asd.gsfc.nasa.gov/roman_forum/

Monthly Roman Virtual Lecture Series

– <u>https://roman.ipac.caltech.edu/Lectures.html</u>

Regular Science Workshops

- Next one will be organized by STScI Roman Science Inspired by Emerging JWST Results, June 20-23
 - https://www.stsci.edu/contents/events/stsci/2023/june/roman-science-inspired-by-emerging-jwst-results



Roman Science Interest Group (2020 - ..)

- https://roman.gsfc.nasa.gov/science/rsi g.html
- Meeting presentations and notes available on the meetings tab
 - Discussions on observing program, proposal opportunities, mission/instrument status etc
 - Provides advice and guidance on all aspects of community engagement
- Regular opportunities to join this group
 - New call coming soon!
- Reports to Project and Program Scientists

Megan Donohue (Chair)	Michigan State U.
Zeljko Ivesic	U. Washington
Jessica Lu	UC Berkeley
John MacKenty	STScI
Ashley Villar	Columbia U / Flatiron Institute
Alice Shapley	UCLA
Keith Bechtol	UW, Madison
Saurabh Jha	Rutgers U
Peter Melchior	Princeton U
Dara Norman	NOIRlab
Jessie Christiansen	NEXSci/ CalTech
Rachel Bean	Cornell U
Ryan Hickox	Dartmouth
Dimitri Mawet	CalTech
David Spergel	Simons Foundation (ex-officio)
Jeremy Kasdin	U. San Francisco (ex-officio)
Roeland van der Marel	Science Center (STScI) (ex-officio)
Lee Armus	Science Center (IPAC) (ex-officio)



Three Paths for Community Engagement

Join Roman Technical Working Groups

- Groups pursing topics of interest across many science areas
- Two groups currently (calibration, software) but will add more after ROSES proposal selection
- Simple web sign up page, open to all

Submit science pitch/white paper for Core Community Survey definition

- Science pitch few paragraphs describing science case for one of the community surveys, short questionnaire on needed survey parameters
 - Deadline Feb, low bar to entry (i.e. encourage high participation)
- White papers several page document with details on science case, sketch of survey design and methods/metrics on how to evaluate science FOM against survey parameters
 - Deadline summer, detail enables more meaningful evaluation

Submit proposal to Roman ROSES solicitation

 Funding to work on Roman science preparation (including engagement in working groups and survey definition)