

An Update from the Roman Space Telescope's Science Operations Center Less than One Year from Launch

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Nancy Grace Roman Space Telescope



Mission Overview

- NASA's next flagship astrophysics observatory
- Expected to launch in **September 2026**
- Designed to enable transformative wide-field infrared surveys

Wide Field Instrument (WFI)

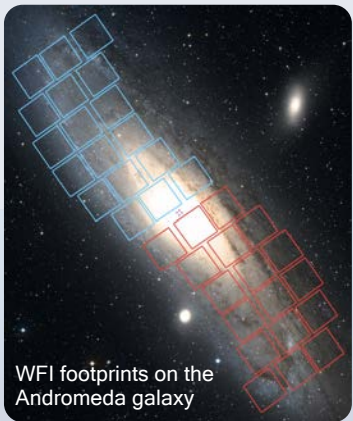
- Delivers **Hubble-like spatial resolution** across a **0.28 deg² field of view**
- 8 imaging filters spanning 0.48-2.3 μm
- Grism and prism for slitless spectroscopy
- Survey speed **at least 1000x faster than Hubble**

Coronagraph Technology Demonstration (CGI)

- First high-contrast imaging instrument on a NASA flagship mission
- Enables **direct observations of Jupiter-mass exoplanets** around Sun-like stars

Science Operations Center @ STScI

- **Plans, schedules, and archives** all Roman WFI and CGI observations
- Oversees **operation and calibration** of the WFI imaging mode
- Processes **all low-level WFI data** as well as **high-level imaging data**
- Provides **user support** for WFI imaging mode
- Develops and maintains tools for **proposal preparation, data reduction, and data analysis**
- Provides the cloud-based Roman Research Nexus to the community
- Community engagement and public outreach activities



WFI footprints on the Andromeda galaxy

Community Defined Surveys

The **three core community surveys** were designed to meet Roman's science requirements in cosmology and exoplanet science, while enabling broad astrophysical research, have been implemented.

- High Latitude Wide Area Survey
- High Latitude Time Domain Survey
- Galactic Bulge Time Domain Survey

General Astrophysics Surveys (GAS)

The **Galactic Plane Survey**, an early GAS also defined through a community process, has been implemented. PI-led GAS are solicited in the recently released Call for Proposals.

Take part in the Roman mission !

- Tune in:** Sign up for news, listen to webinars, and read documentation
- Interact:** Attend conferences, use simulated data and tools, and prepare to submit proposals.
- Actively contribute:** Engage with formal committees, join the Wide Field Instrument (WFI) working groups, and participate in workshops



www.stsci.edu/roman/get-involved

Roman Call for Proposals

The **1st Call for Proposals** (CfP) has been released by the Science Support Center at IPAC. **Proposals due March 17th, 2026.** Roman APT 2025.8 has been released to support the Call.

CfP
QR



Roman Research Nexus

A cloud-based platform to access, reduce, and analyze Roman data. **Now publicly available** at <https://roman.science.stsci.edu>. See poster by Desjardins et al.



Documentation

The Roman user documentation (Rdox) is live ! <https://roman-docs.stsci.edu>



Helpdesk

Ask us any and all Roman questions: <https://stsci.service-now.com/roman>



Roman Forum & Working Groups

Participate to Roman activities, subscribe at: <https://outerspace.stsci.edu/site/ruf>



Simulation Tools

We develop and support several tools to simulate different aspects of Roman observations.

Data Archives

MAST, portal to archive of Roman observations
CaSSP, Roman Calibration and Supplemental Data