

National Aeronautics and
Space Administration



EXPLORE SCIENCE

AAAC: Astrophysics Highlights/Update

Dr. Mark Clampin

Astrophysics Division Director

NASA Science Mission Directorate

February 24, 2023

Science Mission Directorate

ASTROPHYSICS

Organizational Chart



Dr. Mark Clampin
Director



Sandra Cauffman
Deputy Director

DIVISION MANAGEMENT

ADMINISTRATIVE SUPPORT
Kelly Johnson, Jennifer Baker (C), Pamela King-Williams (C)

DIVISION LAISONS

Resource Management
Eric Edwardson (Lead)
Danielle Gervallis
Jennifer Holt

Policy
Peter Meister (Lead)
Envida Santiago-Arce

Communications
Alise Fisher (Lead)
Liz Landau

Program Support Specialist
Sara Schwartzman

Communications/Public Engagement
Natasha Pinol

CROSS CUTTING

Technologist
Mario Perez (Chief)
Omid Noroozian (Deputy)

GOMAP Program Executive
Julie Crooke

GOMAP Program Scientist
Shawn Domagal-Goldman

Inclusion, Diversity, Equity, and Accessibility
Kartik Sheth

APD Communications
Hashima Hasan (Lead)
Doris Daou (Deputy)

APD Information Manager
Rhiannon Roberts

FLIGHT PROGRAMS

Associate Director
Joseph Smith

PROGRAM EXECUTIVES
Rachele Cocks
Lucien Cox
Shahid Habib
Janet Letchworth
Mark Sistilli

RESEARCH & ANALYSIS

Associate Director
Eric Smith

R&A Lead
Stefan Immler

PROGRAM SCIENTISTS
Manuel Bautista
Dominic Benford
Valerie Connaughton
Antonino Cucchiara (C)
Doris Daou
Michael Garcia
Thomas Hams (C)
Hashima Hasan
Doug Hudgins
Stefan Immler
Hannah Jang-Condell
Patricia Knezek
Bill Latter
Sangeeta Malhortra
Roopesh Ojha
Joshua Pepper
Mario Perez
Kartik Sheth
Eric Smith
Linda Sparke
Sanaz Vahidinia

PROGRAM SUPPORT SPECIALIST
Ingrid Farrell (C)

ASTROPHYSICS STRATEGIC MISSIONS

Program Director
Sandra Cauffman

Program Manager (Acting)
Garth Henning

Program Executives
Ed Griego

Deputy Program Executives
Lucas Paganini
Miles Skow

PROGRAM SUPPORT
Tony Comberiate (C), Andre Davis (C)

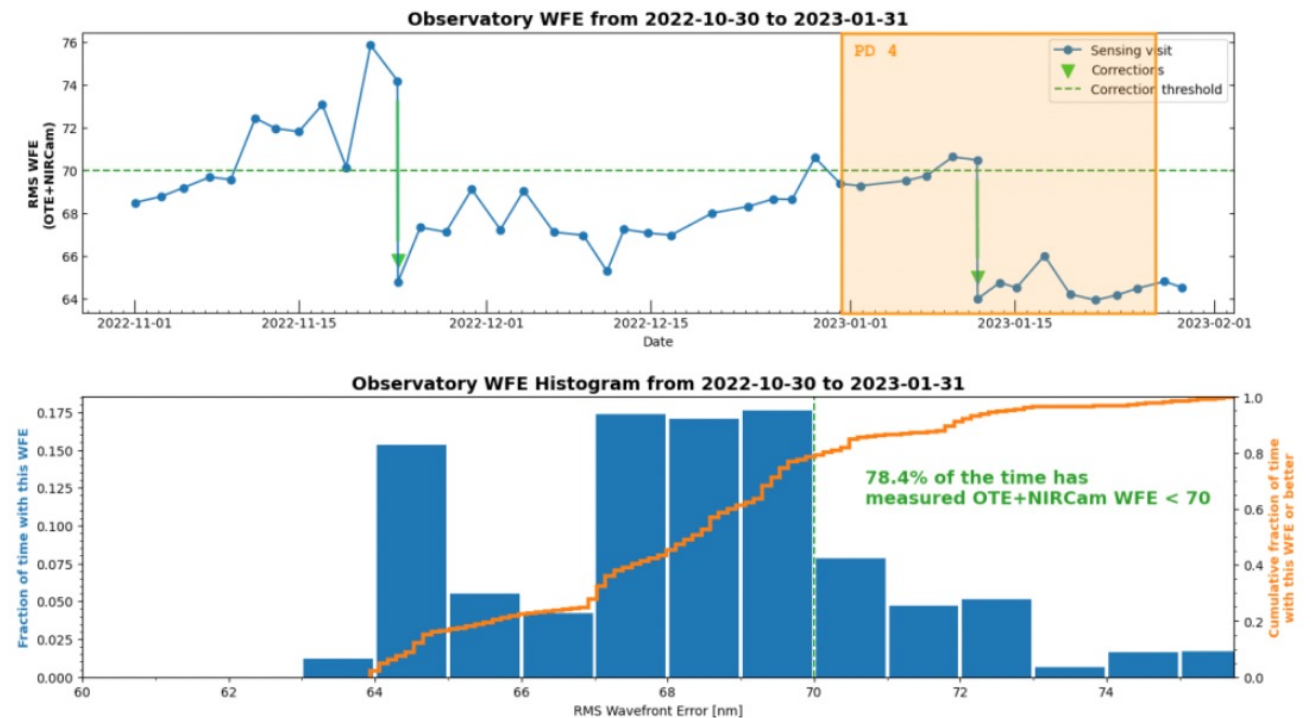
James Webb Space Telescope

- Cycle 1 science programs are well underway
 - On-orbit performance exceeds mission requirements
 - Conducting Lesson-Learned exercise

Webb Deep Field: SMACS 0723



OTE Trending



Astro2020 Decadal Survey

Key Mission Recommendations

Great Observatories Mission and Technology Maturation Program (GOMAP)

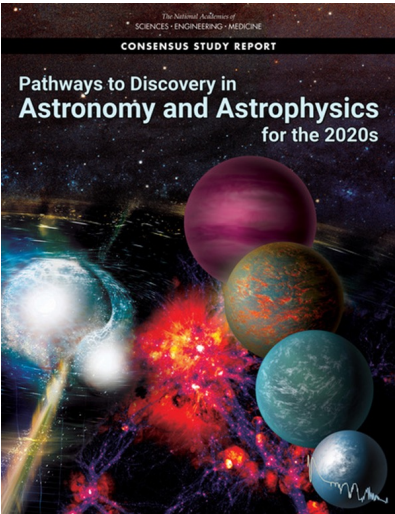
- Initiating Science, Technology, Architecture Review Team (START)
- Near- Infrared/Optical/Ultraviolet 6-m telescope with high-contrast imaging capability
 - Image and characterize earth-like exoplanets w/compelling astrophysics program
- The Habitable Worlds Observatory

Space-based time-domain and multi-messenger counterparts program (*TDAMM*)

- Reviewing report from PhysCOS/COR hosted TDAMM workshop in Annapolis, MD
- Initiating TDAMM working group comprising international Agencies.

Astrophysics Probe Mission: AO will be released ~July 2023

End SOFIA operations by 2023: Completed science operation FY22

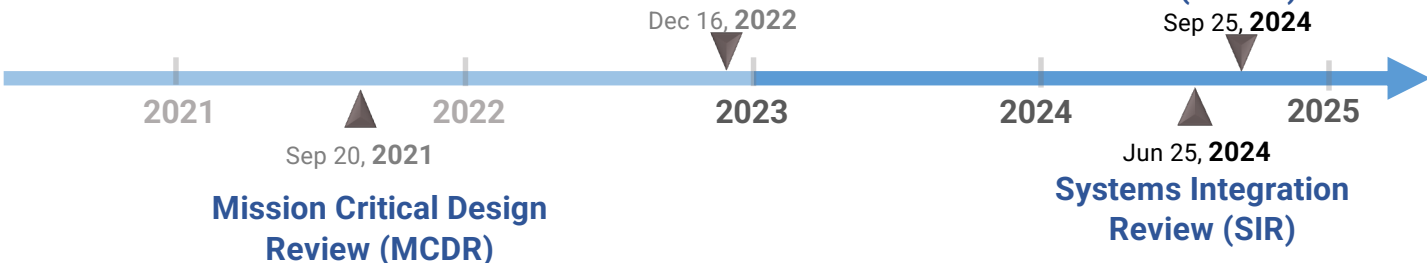


Roman Space Telescope

Important Milestones

Roman Mission Research and Support Participation Opportunities (ROSES-D.14)

Phase D (KDP-D)





ASTROPHYSICS FLEET

PRE-FORMULATION

MIDEX/MO
PROBE ~2030
ATHENA EARLY 2030s
ISA MID 2030s ?

VERY SMALL MISSIONS

TRADITIONAL MISSIONS

KEY

- INTERNATIONAL PARTNER-LED
- ISS INSTRUMENT
- SMALLSAT
- CUBESAT
- BALLOON
- FORMULATION
- IMPLEMENTATION
- OPERATING
- EXTENDED

