

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

DIVISION MANAGEMENT



Dr. Mark Clampin
 Director



Sandra Cauffman
 Deputy Director

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

PROGRAM SUPPORT SPECIALIST
 Ingrid Farrell (C)

ASTROPHYSICS STRATEGIC MISSIONS

Program Director
 Sandra Cauffman

Program Manager (Acting)
 Garth Henning

Program Executives
 Ed Griego

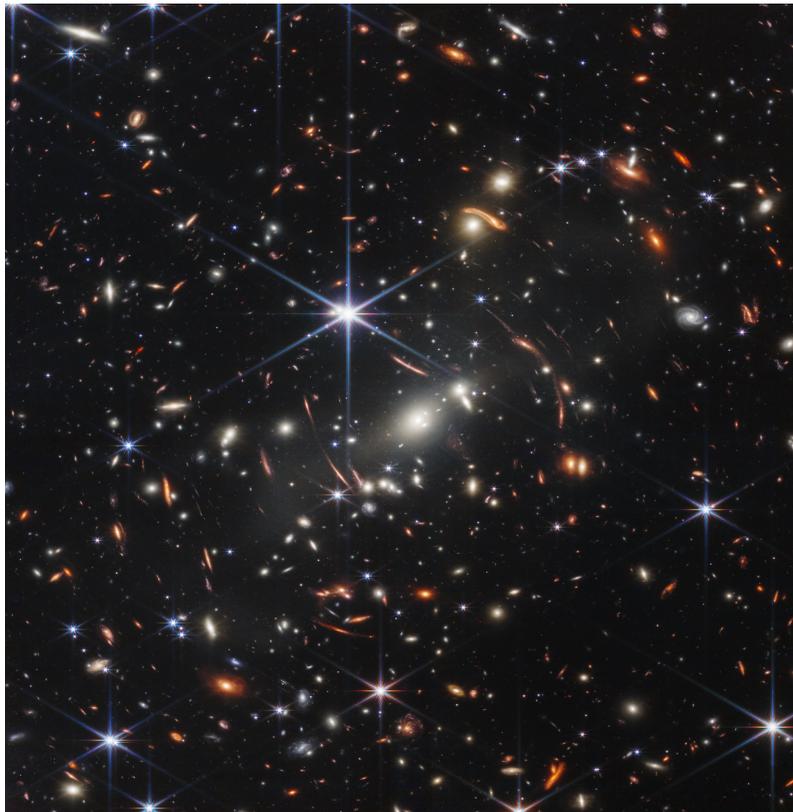
Deputy Program Executives
 Lucas Paganini
 Miles Skow

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

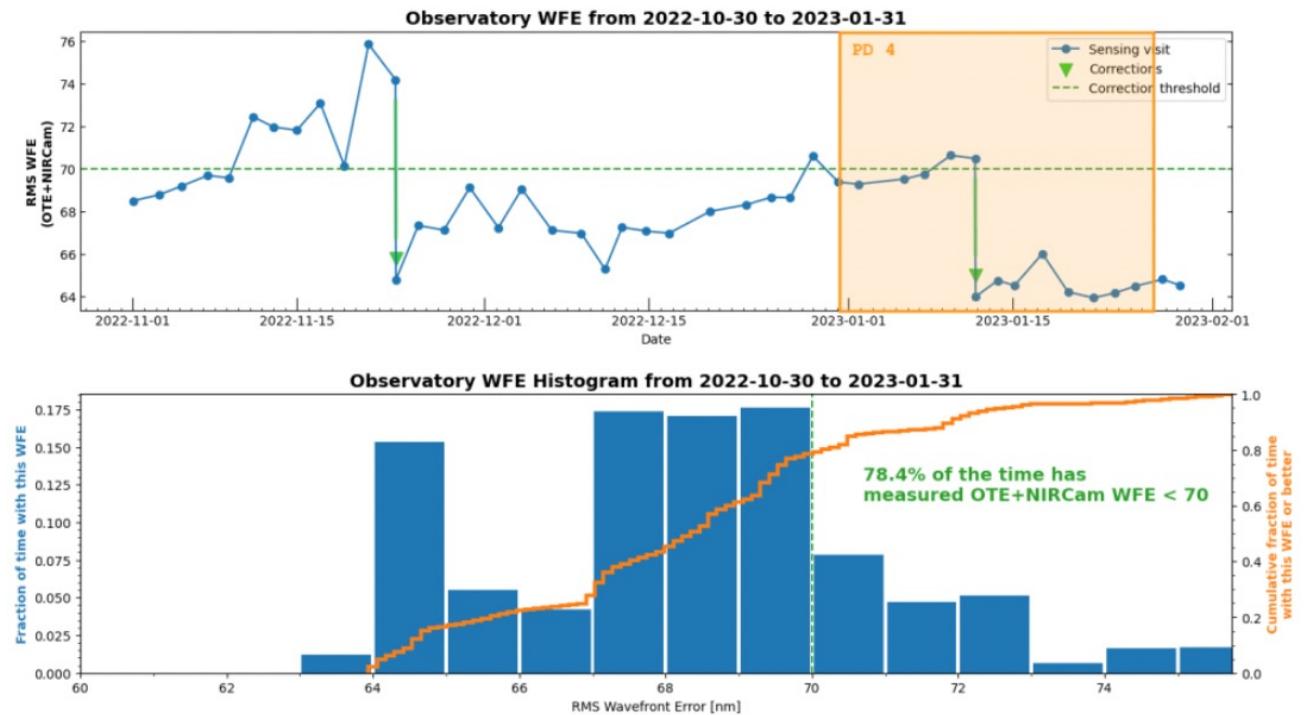
James Webb Space Telescope

- 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)

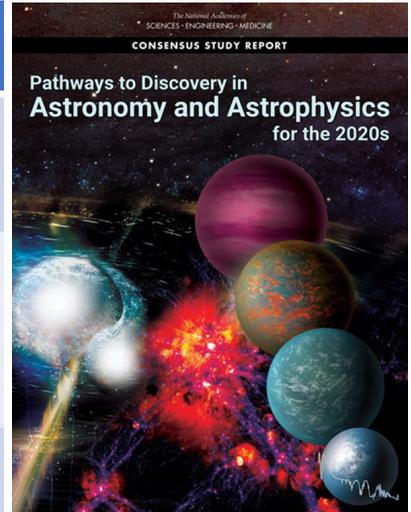
- Initiating Science, Technology, Architecture Review Team (START)
- Near- Infrared/Optical/Ultraviolet 6-m telescope with high-contrast imaging capability
 - Image and characterize earth-like exoplanets w/compelling astrophysics program
- The Habitable Worlds Observatory

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

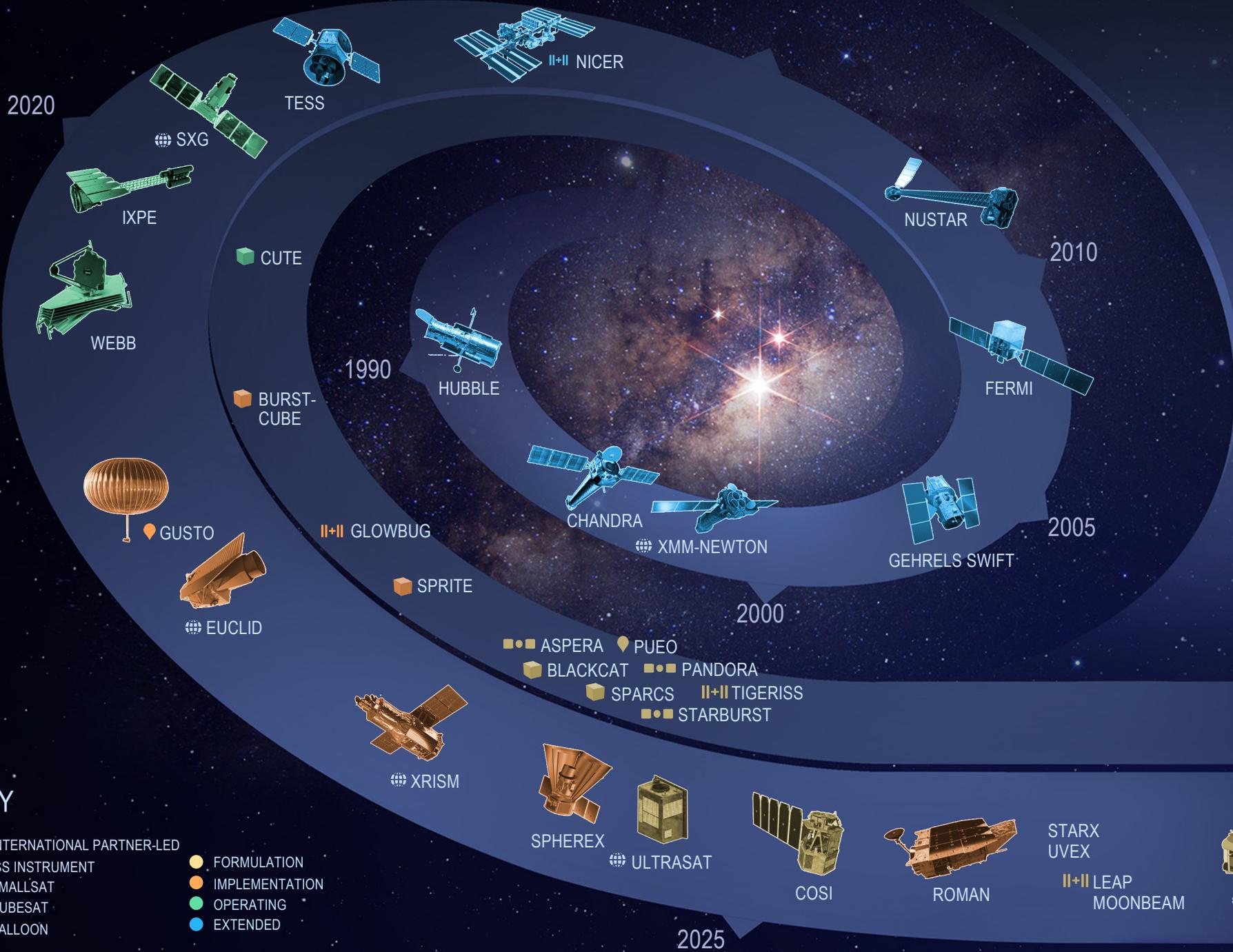
Roman Mission Research and Support Participation Opportunities (ROSES-D.14)

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

2025