



National Aeronautics and
Space Administration

2023 NASA SCIENCE

Dr. Nicola Fox

Associate Administrator
Science Mission Directorate

Space Studies Board Meeting

November 14, 2023





AGENDA

RECENT SCIENCE HIGHLIGHTS

SMD UPDATES

LOOKING AHEAD

SMD AA PERSPECTIVE

SCIENCE UPDATES





Euclid Launch | Saturday, July 1, 2023, 11:12 a.m. EDT



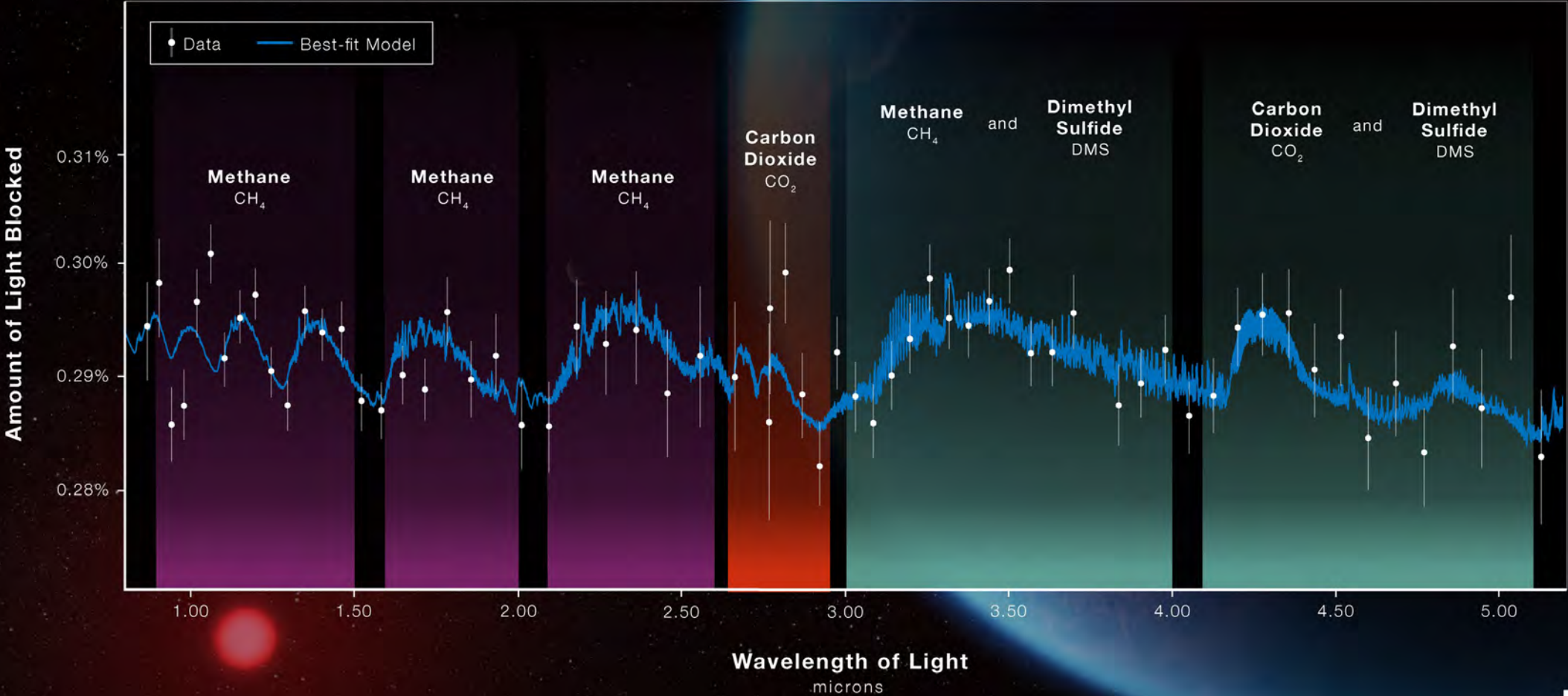
XRISM Launch | Thursday, September 7, 2023, 8:42:11 a.m. JST

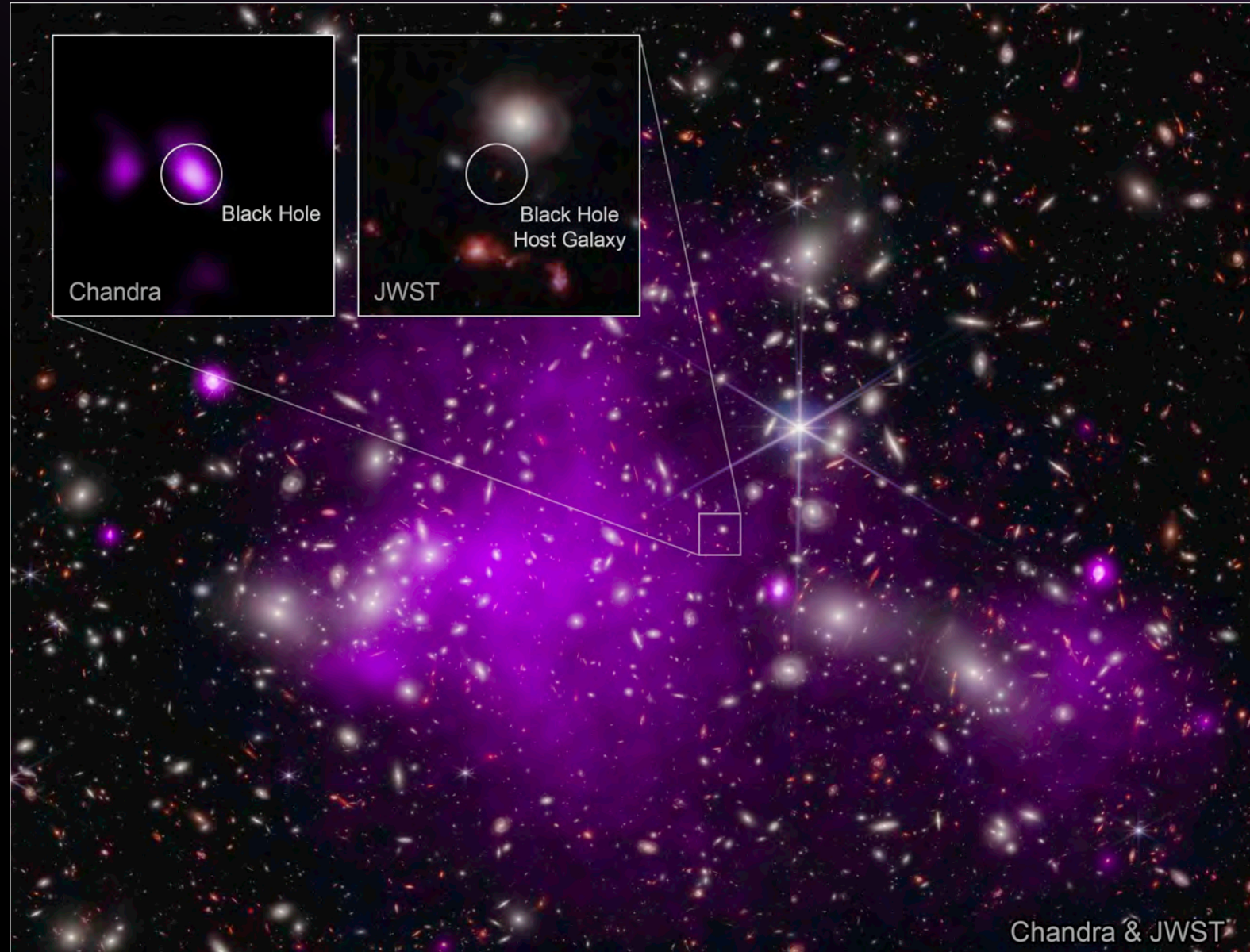


Euclid First Images

ATMOSPHERE COMPOSITION

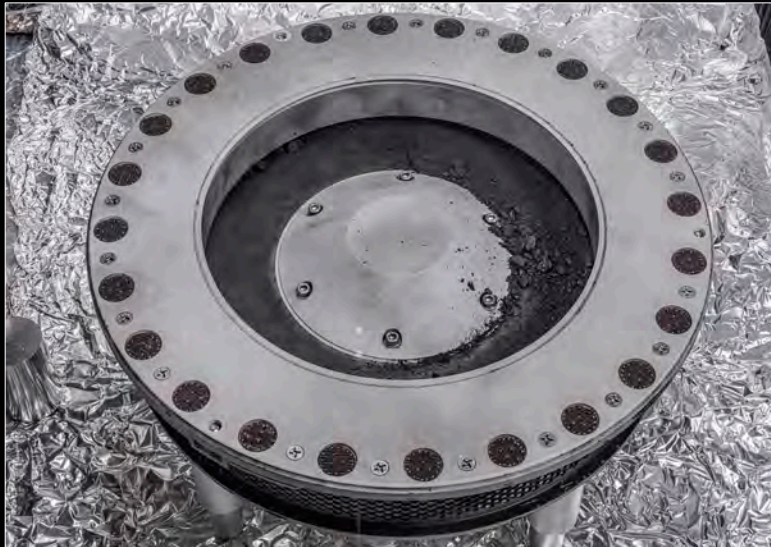
NIRISS and NIRSpec (G395H)







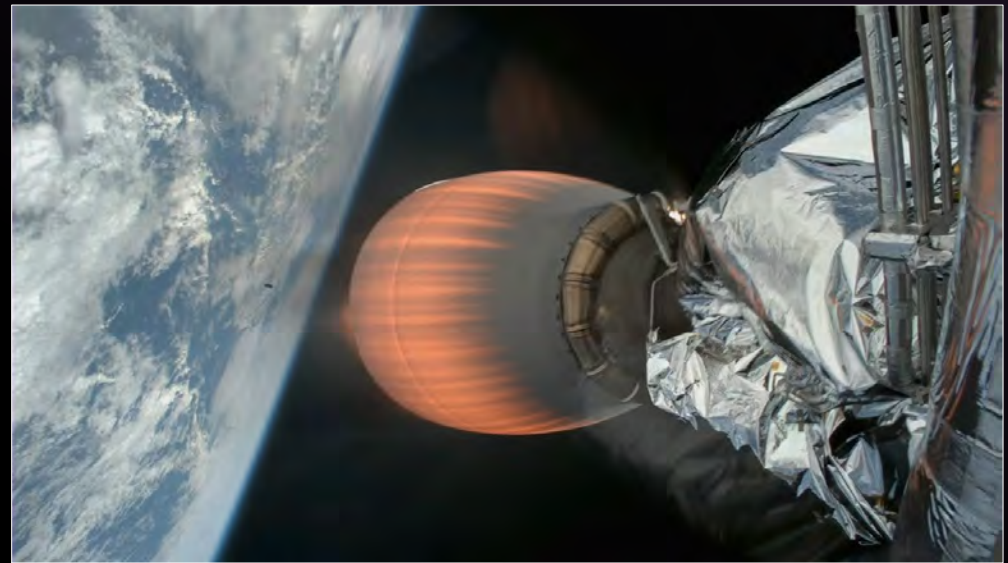
OSIRIS-REx sample return shortly after touching down on Sept. 24, 2023, at the Department of Defense's Utah Test and Training Range



A view of the outside of the OSIRIS-REx sample collector containing sample material from asteroid Bennu.

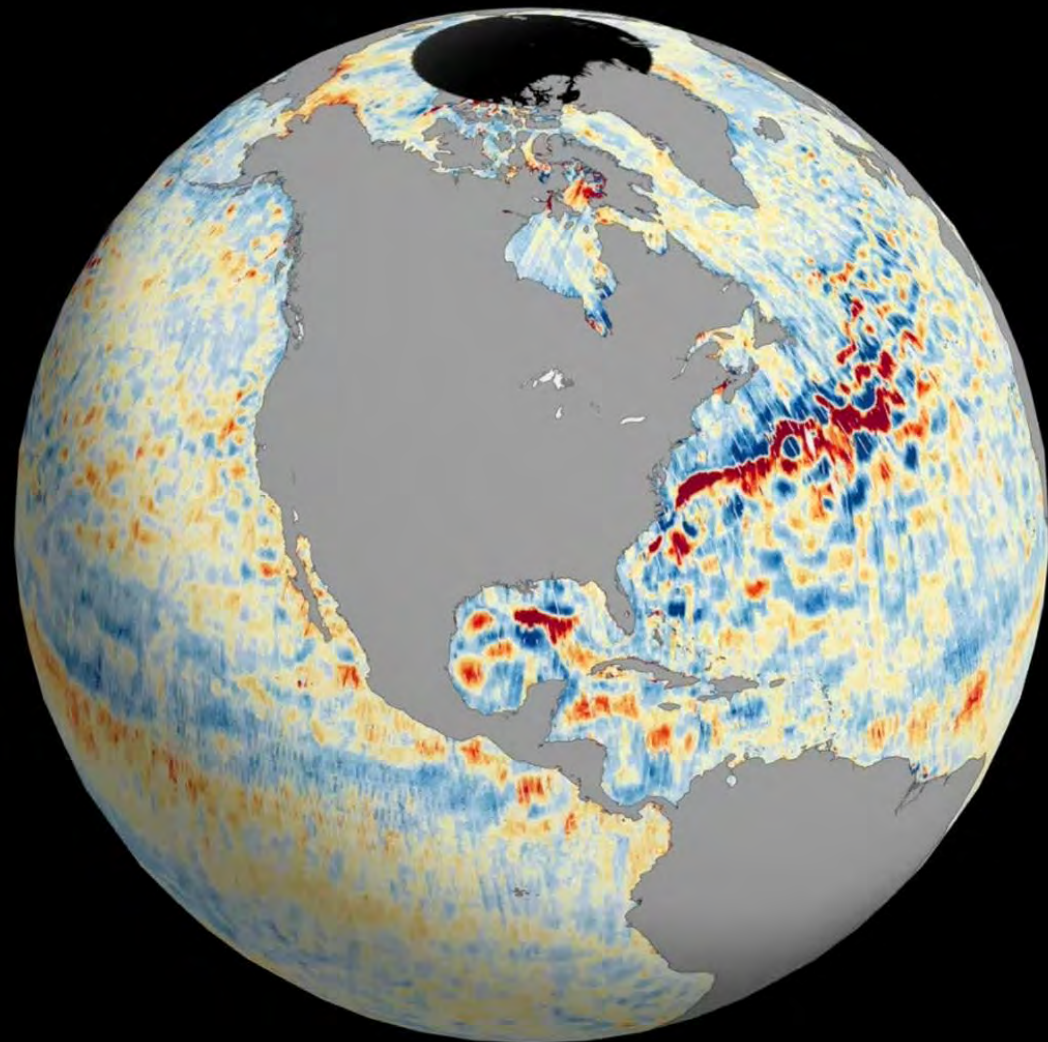


The OSIRIS-REx Benu sample display case now on view at the Smithsonian's National Museum of Natural History in Washington, D.C.

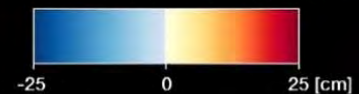


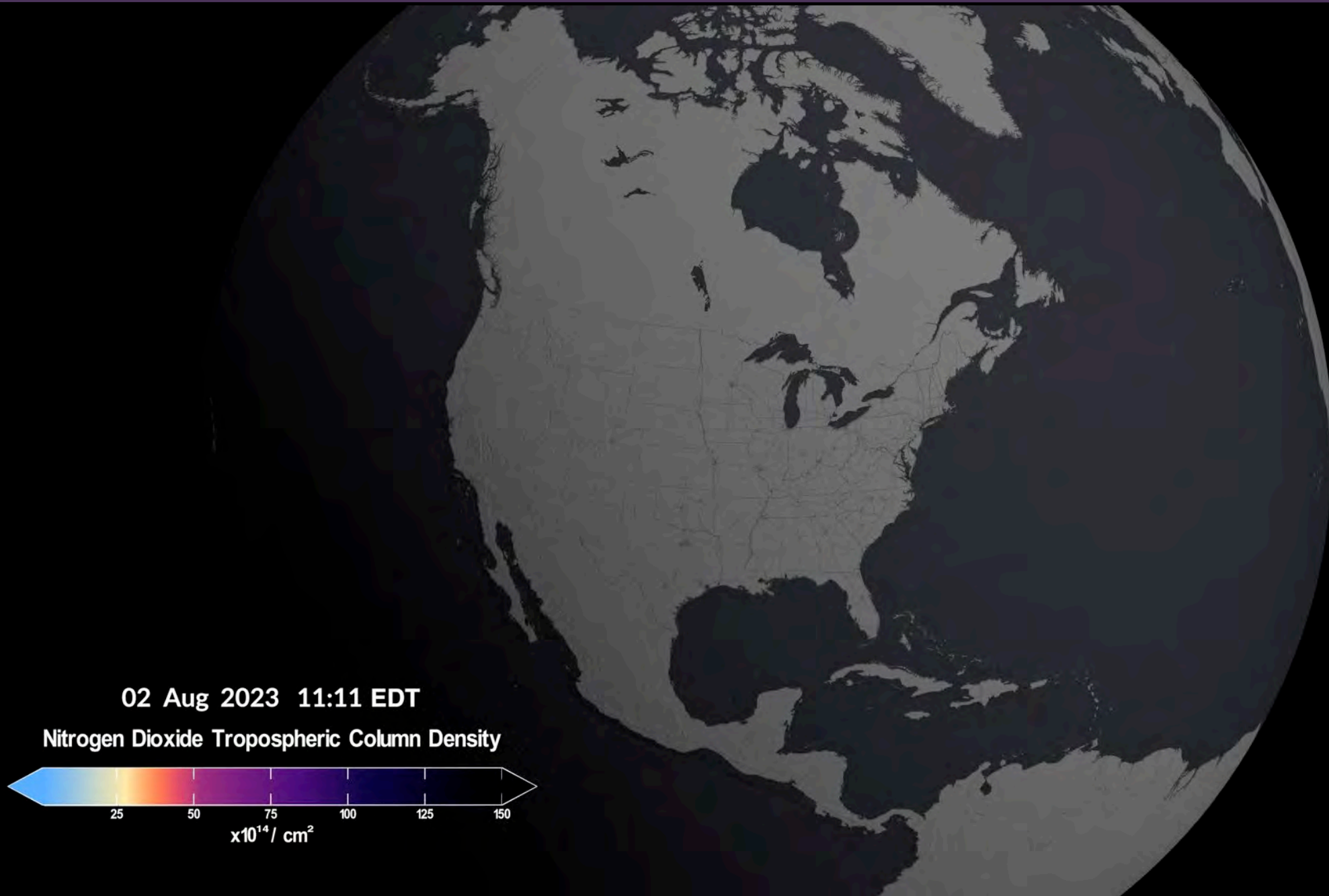


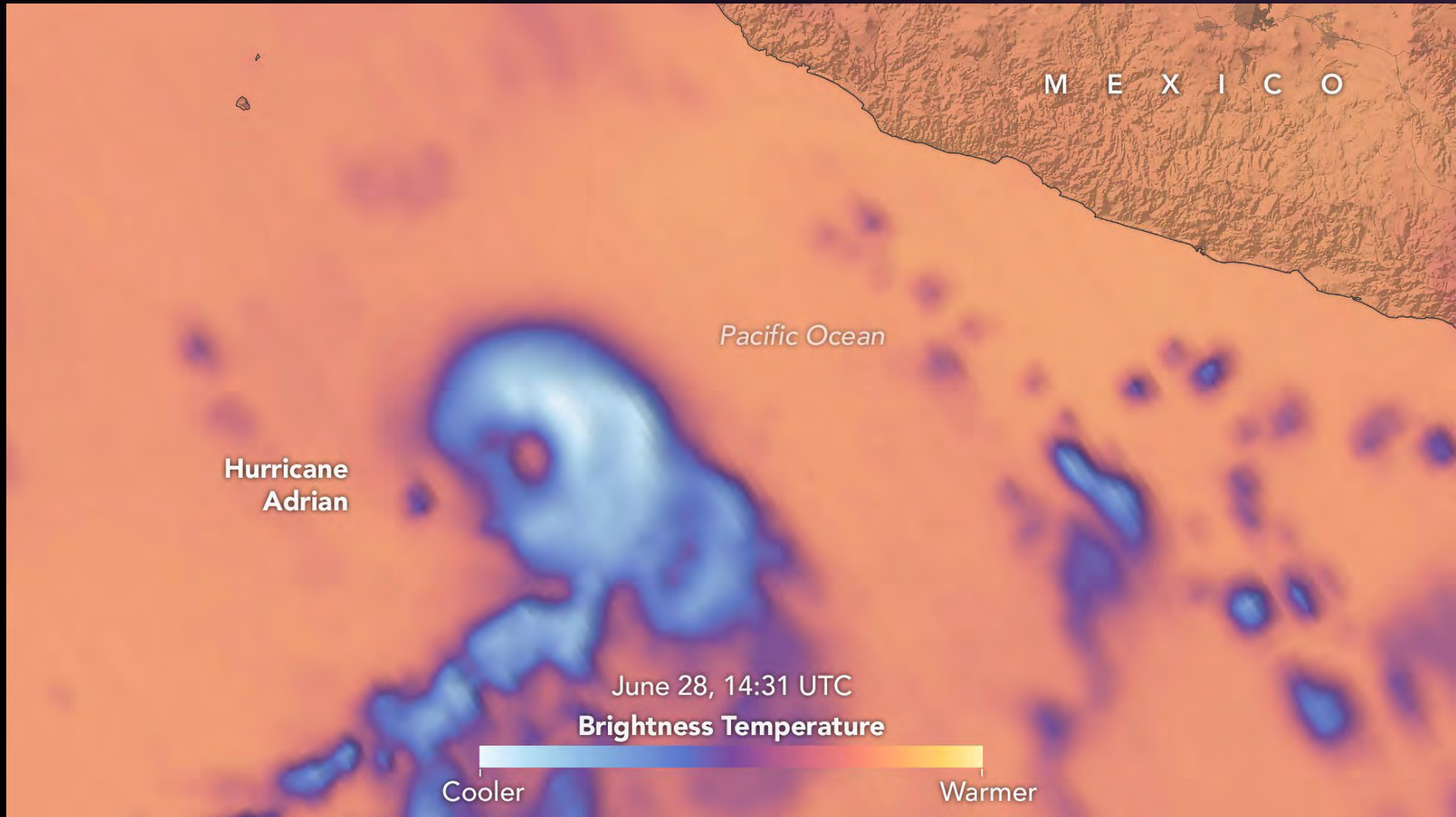
Asteroid Dinkinesh as seen by the Lucy Long-Range Reconnaissance Imager (L'LORRI)



Sea Surface Height Anomaly (SSHA)







NATIONAL
ACADEMIES

Sciences
Engineering
Medicine

Thriving in Space

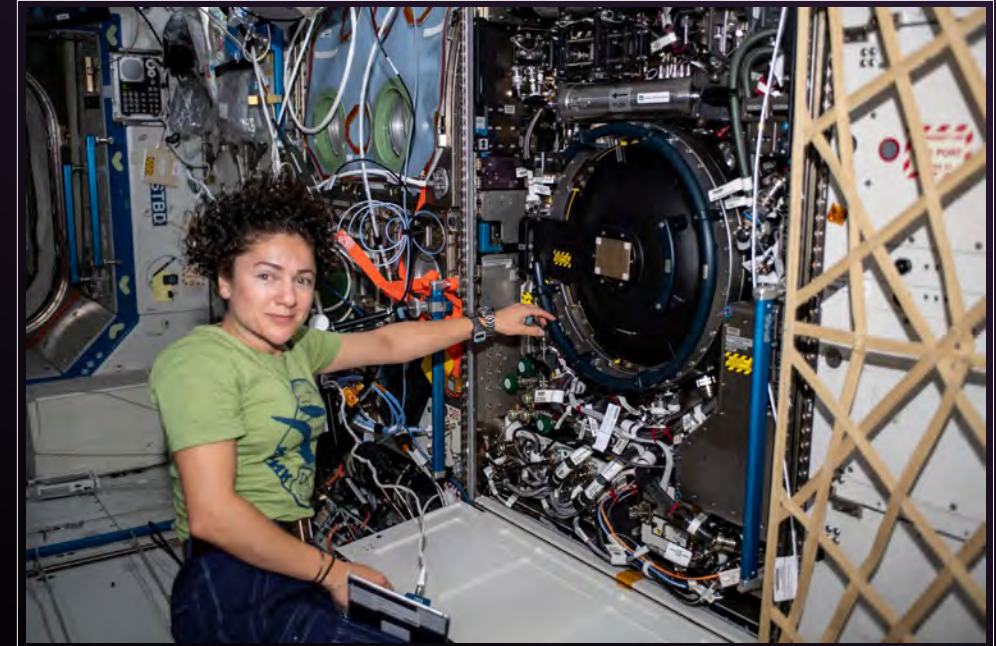
Ensuring the Future of Biological and Physical Sciences Research
Decadal Survey for 2023–2032



Consensus Study Report

Biological and Physical Sciences Payloads:

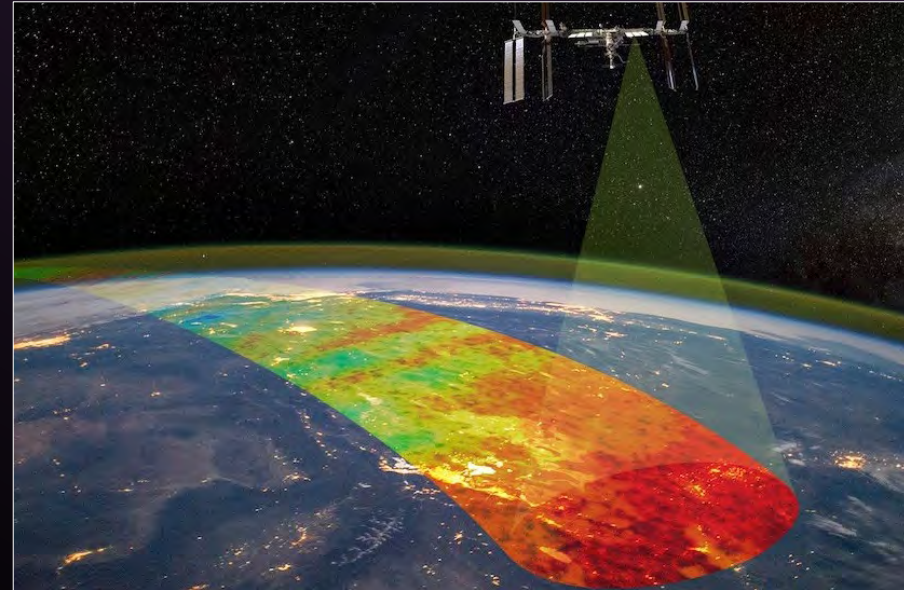
- Bacterial Adhesion and Corrosion (BAC)
- Combustion Integrated Rack Input-Output Processor (CIR IOP)
- Plant Water Management –5 and –6 (PWM-5, -6)
- Plant Habitat 06 (PH-06)
- Rodent Research-20 (RR-20)

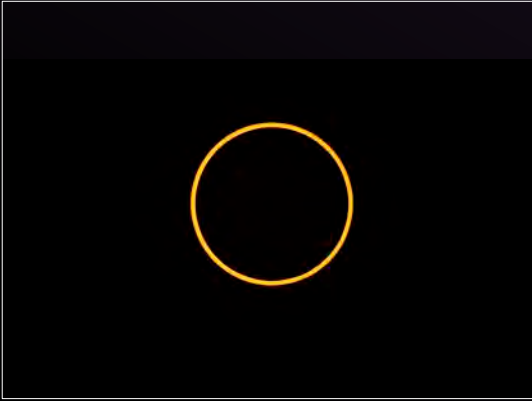


Astronaut Christina Koch working at the Combustion Integrated Rack



CRS-29 launch from Cape Canaveral on November 9, 2023





Annular solar eclipse photographed on October 14, 2023



NASA tent at the 2023 Albuquerque International Balloon Fiesta




NASA eclipse event at the 2023 Kerrville River Festival

PROGRAMMATIC UPDATES




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(DO000)




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Kristen Erickson

RESOURCE MANAGEMENT DIVISION
(DL000)




DIRECTOR
Holly Degn




DEPUTY
Kate Wolf

ADMINISTRATION BRANCH
(DA030)




CHIEF
Thomas Reyna

POLICY BRANCH
(DA040)




CHIEF
Jens Feeley




SENIOR
ADVISOR
Paul Hertz


OFFICE OF THE ASSOCIATE
ADMINISTRATOR (DA000)



ASSOCIATE ADMINISTRATOR
Nicola Fox



DEPUTY ASSOCIATE
ADMINISTRATOR
Sandra Connelly



SPACE TRAFFIC
COORDINATION
PROGRAM OFFICER
Travis Blake

MARS SAMPLE RETURN
PROGRAM OFFICE
(DA050)




DIRECTOR
Jeff Gramling




DEPUTY-
BUSINESS
Rich Ryan

MANAGEMENT



DEPUTY
ASSOCIATE
ADMINISTRATOR
Karen Flynn



ASSISTANT DEPUTY
ASSOCIATE
ADMINISTRATOR
Dan Woods

EXPLORATION




DEPUTY
ASSOCIATE
ADMINISTRATOR
Joel Kearns




ASSISTANT DEPUTY
ASSOCIATE
ADMINISTRATOR
Brad Bailey

RESEARCH




DEPUTY
ASSOCIATE
ADMINISTRATOR
Michael New




ASSISTANT DEPUTY
ASSOCIATE
ADMINISTRATOR
Dan Evans

PROGRAMS



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Wanda Peters



ASSISTANT DEPUTY
ASSOCIATE
ADMINISTRATOR
Shannon Fitzpatrick



CHIEF
TECHNOLOGIST
Carolyn Mercer



CONJUNCTION
ASSESSMENT
PROGRAM OFFICER
Laurie Newman

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Eric Ianson



ASSOCIATE
DIRECTOR
Charles Webb
(Acting)



CHIEF MARS
SCIENTIST
Michael
Meyer



CHIEF SCIENCE
DATA OFFICER
Kevin Murphy



Dr. Lisa Carnell

Division Director
Biological & Physical Sciences Division

- Recently served as BPS's Program Scientist for Translational Research
- Led strategic partnership initiatives with other government agencies, including NIH, BARDA, FDA, DARPA, NSF, and the USDA
- Holds a PhD from Duke University
- Formerly served as the Space Radiation Medical Countermeasure Lead for NASA's Human Research Program
- Extensive background in understanding and mitigating radiation-induced health effects on humans

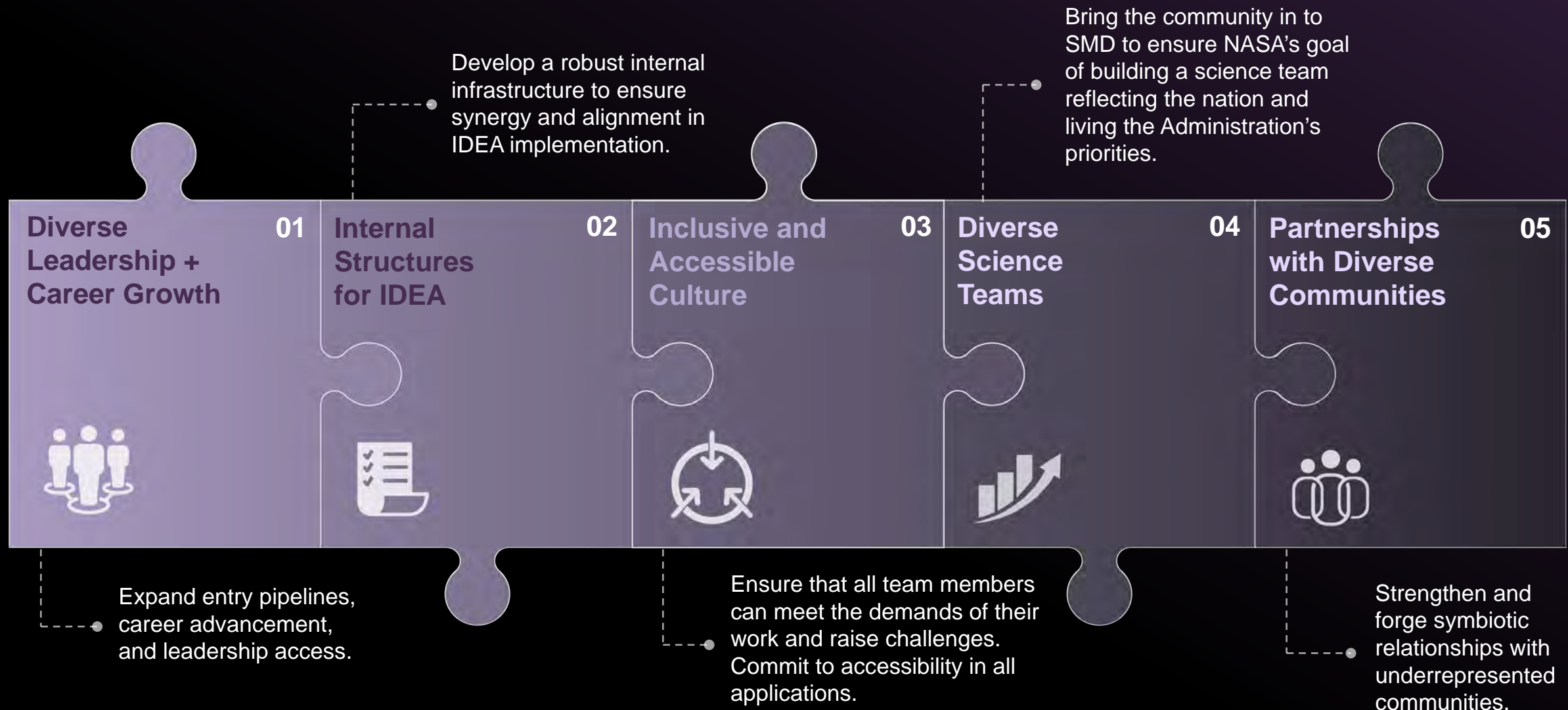


Dr. David Grinspoon

Senior Scientist
Astrobiology Strategy (SSAS)

- Dr. Grinspoon's papers have been published in Nature, Science, and numerous other journals
- Frequently gives talks to all levels of audiences around the world
- Received awards for innovative ways of teaching astrobiology to both undergraduates and graduates at multiple universities
- Participated in numerous NASA-related strategic planning and advisory roles
- Currently serving on the Unidentified Anomalous Phenomena Independent Study Team

Inclusion, Diversity, Equity, Accessibility (IDEA) *Strategic Priorities*



MSR IRB-2 Members

Orlando Figueroa, Chair

Steve Battel

Jon Bryson

Anders Elfving

Vicky Hamilton

Michele King*

Gentry Lee

Daniel Limonadi

Jonathan Lunine

Todd May*

Heather MacDonald

Adm. Mike Mullen

Keith Parrish*

Lisa Pratt*

Gary Rawitscher

Janet Vertesi

PROGRAMMATIC CONSULTANTS

Louis Fussel

Mark Jacobs

Andy Prince

Jahi Wartts

**IRB Subpanel Leads*

Explore



Search...



News & Events



Multimedia



NASA+

Science Missions

Science Topics



For Everyone



For Researchers



About NASA Science



Español

Kids

NASA Science

NASA Science seeks to discover the secrets of the universe, search for life elsewhere, and protect and improve life on Earth and in space.

CARGO RESUPPLY MISSION

SpaceX CRS-29 Launch →

MESSAGE IN A BOTTLE

Send Your Name to Europa →

CELEBRATE SOLAR SCIENCE

Heliophysics Big Year →

SCIENCE LEADERSHIP PRIORITIES



**EXPLORATION AND
SCIENTIFIC DISCOVERY**



INNOVATION



**INTERCONNECTIVITY AND
PARTNERSHIPS**



INSPIRATION

“

I am pleased to welcome you to this new blog series – what my team affectionally calls, “Nicky Notes.” Through this platform, I hope to regularly share updates about all of the exciting work we do in the Science Mission Directorate, while offering some more candid reflections.

Rocket Scientist. Pioneer. Explorer. NASA Science Associate Administrator.

SORT: PUBLISH DATE ORDER: DESCENDING



Welcome to Nicky Notes: Release of NASA Science Inclusion, Diversity, Equity and Accessibility Annual Report

2 MIN READ

November 2023 I am pleased to welcome you to this new blog series – what my team affectionally calls, “Nicky Notes.” Through this platform, I hope to regularly share updates about all of the exciting work we do in the...

ARTICLE



LOOKING AHEAD





**COMMERCIAL LUNAR PAYLOAD
SERVICES (CLPS)**

Various Providers



**NASA-ISRO SYNTHETIC
APERTURE RADAR (NISAR)**

NASA/ISRO



**PLANKTON, AEROSOL, CLOUD
OCEAN ECOSYSTEM (PACE)**

NASA



**GEOSTATIONARY OPERATIONAL
ENVIRONMENTAL SATELLITE-R
SERIES (GOES U)**

NOAA/NASA



SMD BRIDGE PROGRAM



OPEN SCIENCE



ROSES-24

CLOSING THOUGHTS

