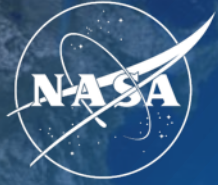




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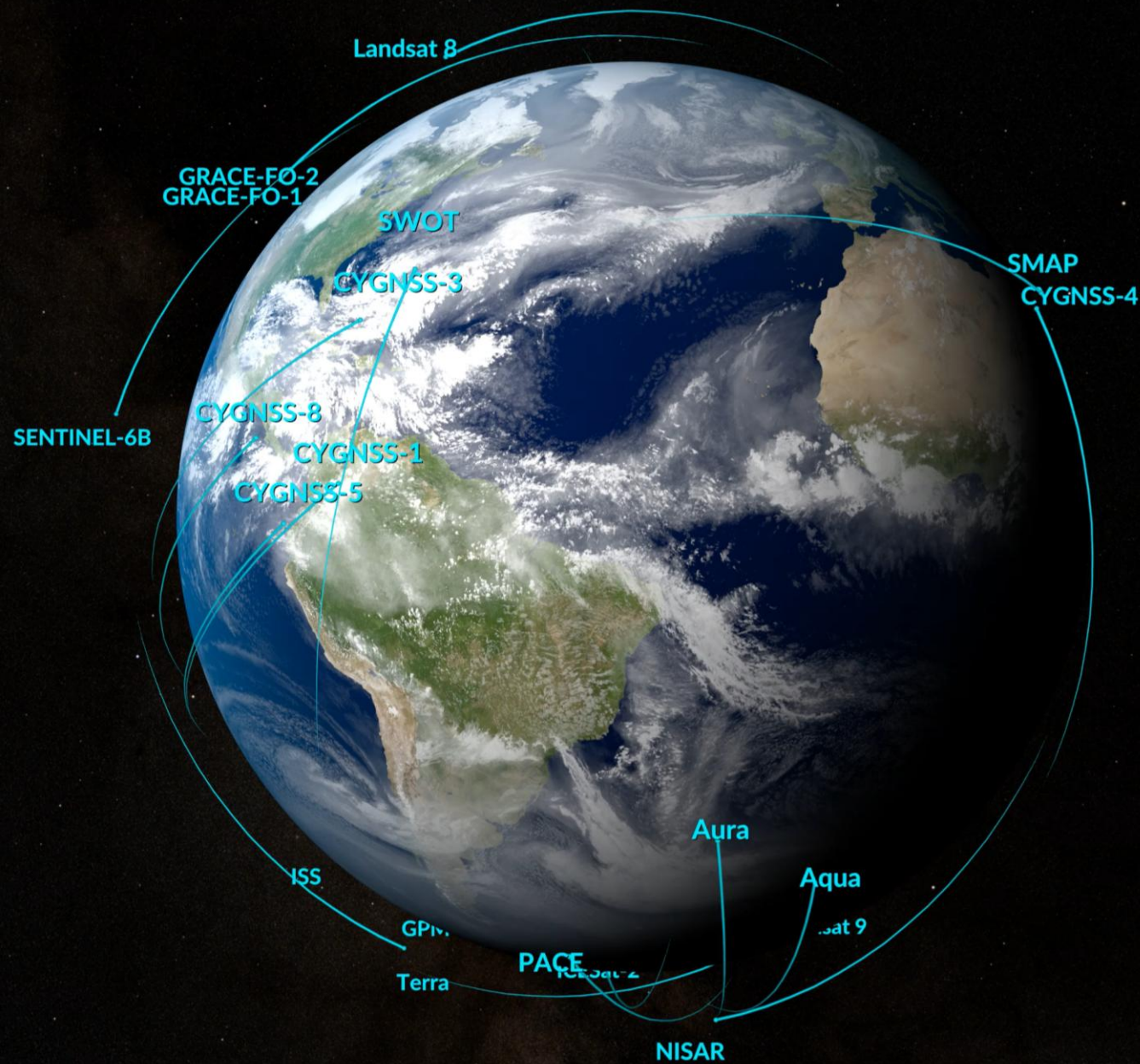
NASA SCIENCE

Earth Science and U.S. - Japan Collaboration

Dr. Nicola “Nicky” Fox

Associate Administrator,

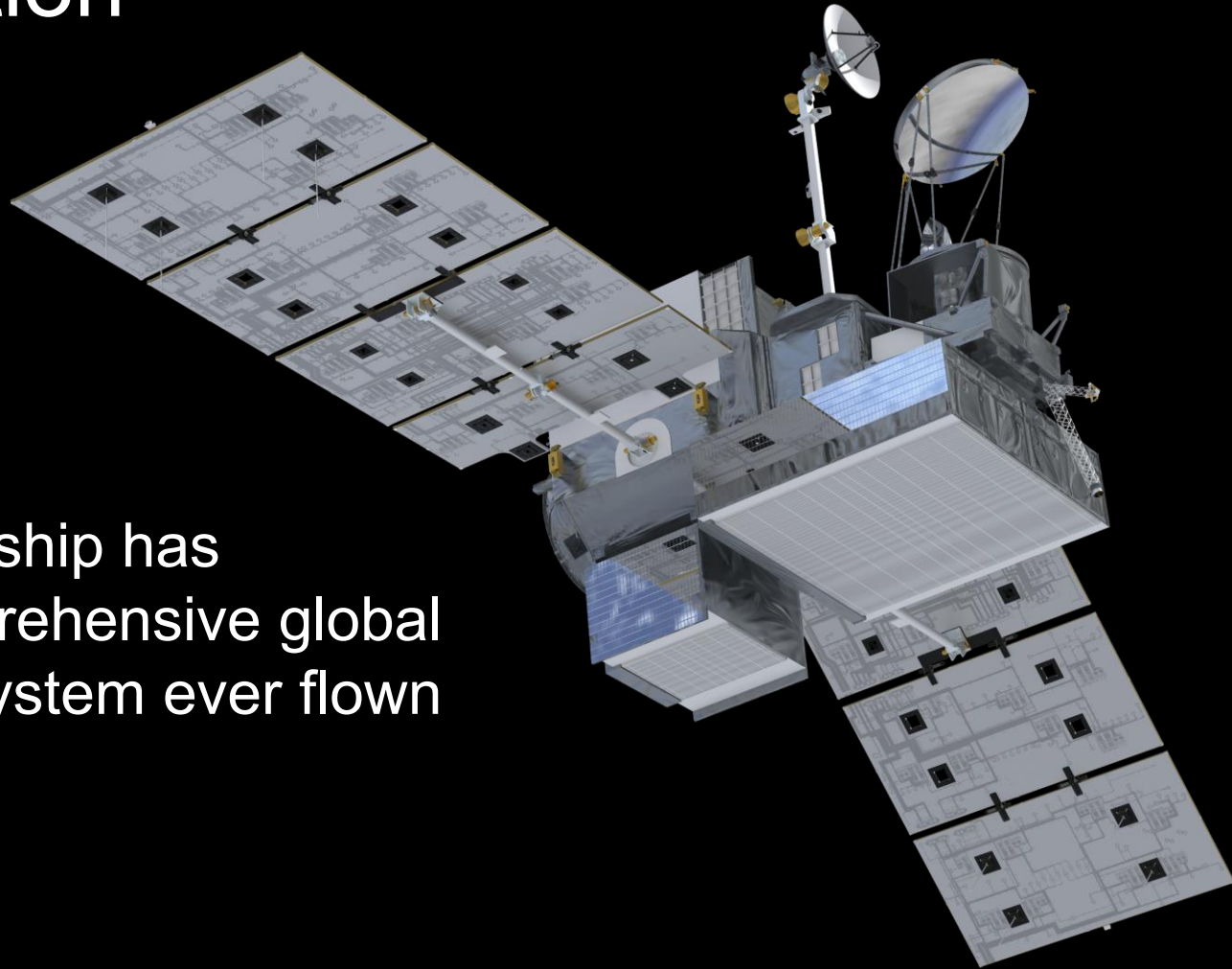
NASA Science Mission Directorate



May 24 2026 16:48

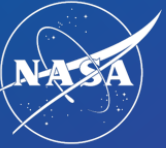
Global Precipitation Measurement

The NASA-JAXA partnership has produced the most comprehensive global precipitation observing system ever flown



Earth Science to Action Strategy

National Aeronautics and
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Earth Science to Action



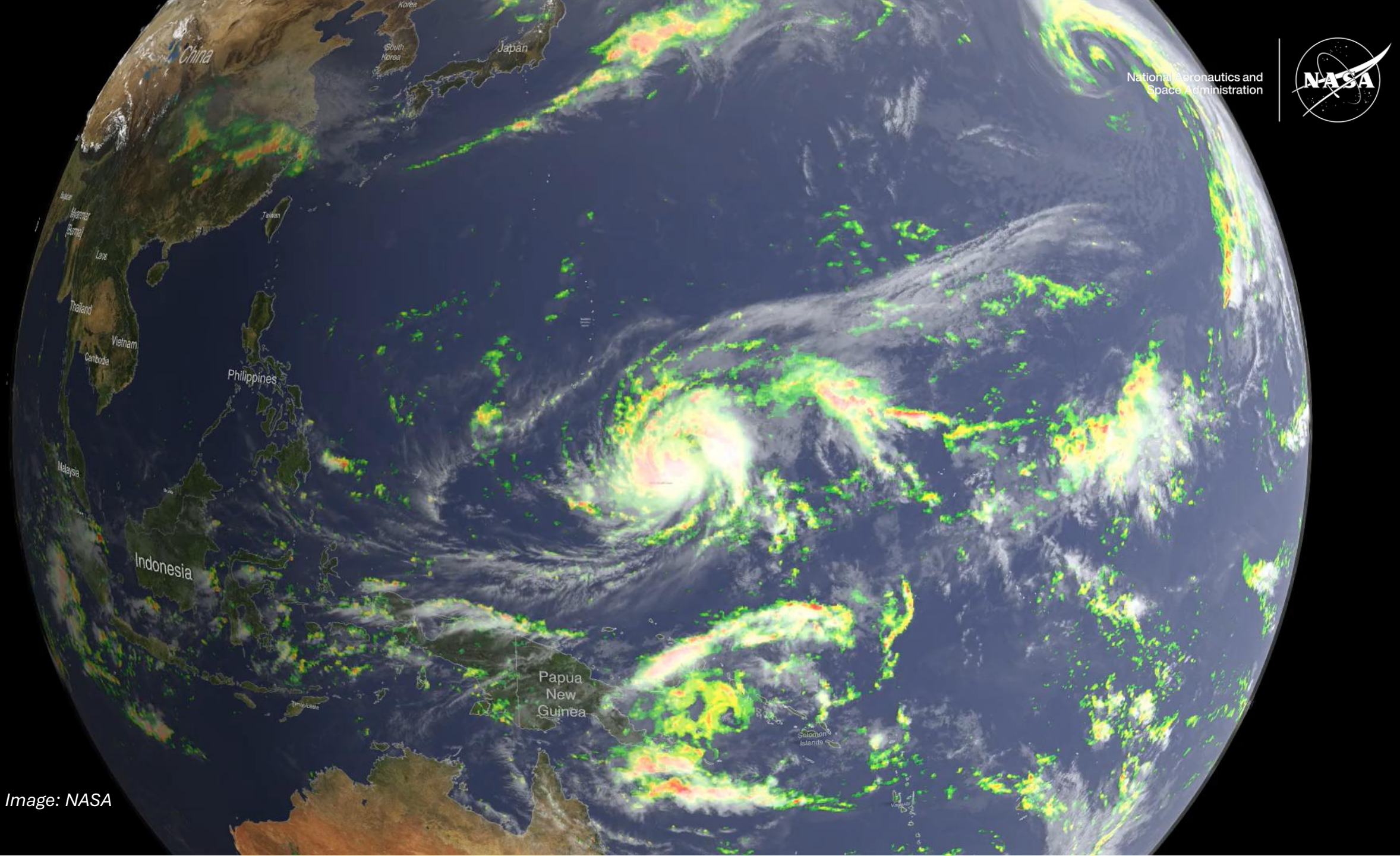


Image: NASA



Fleet for the Atmosphere Linking Commercial Observations with NASA **FALCON**

PMM (JAXA/GSFC)

Precipitation profiles

FALCON-Lidar (GSFC/LaRC)

Atmospheric structure and composition measurements

FALCON-Radar (JPL)

Cloud profiles to improve understanding of severe weather drivers.

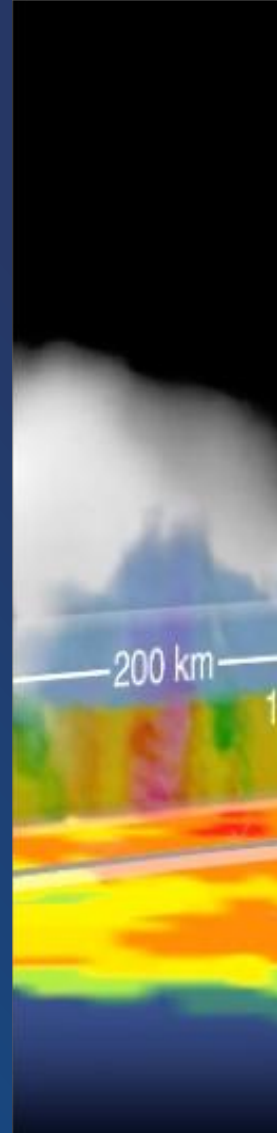
FALCON-Radiometry (Commercial)

RFI Released this week for contribution options

Joining the FALCON fleet

- INCUS (CSU/JPL)
- PoSIR (Vanderbilt/GSFC)
- STRIVE (UW/GSFC)

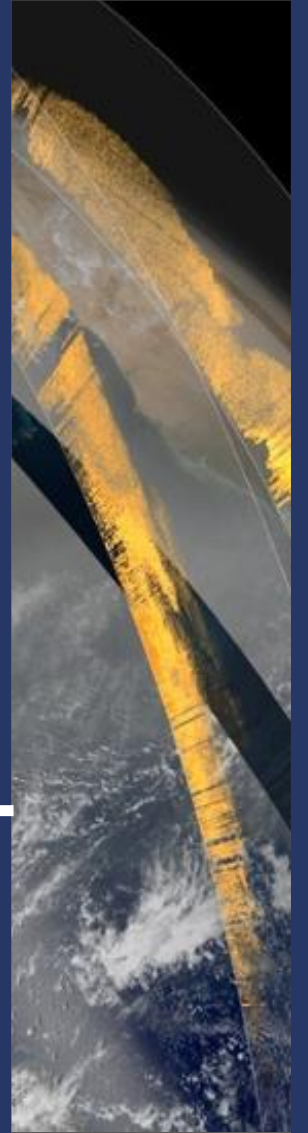
Profiles



Structure



Composition



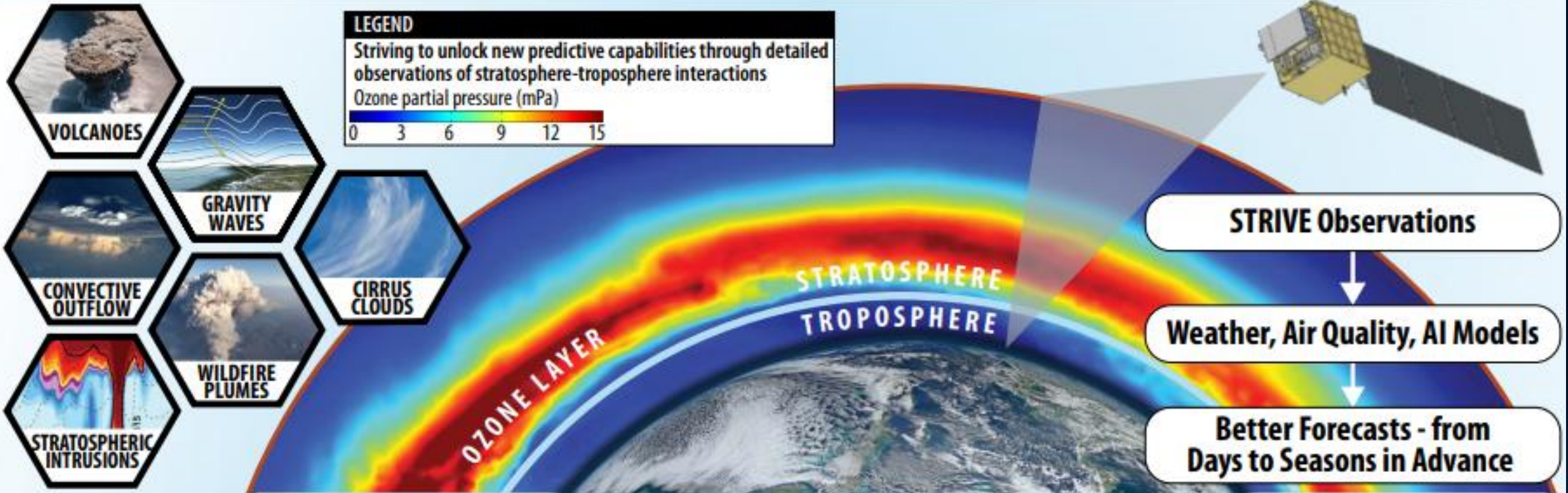
STRIVE: Opening a New Window on Stratosphere-Troposphere Interactions

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STRIVE

STRIVE RESOLVES THE FINGERPRINTS OF FINE-SCALE PROCESSES IN THE UPPER ATMOSPHERE

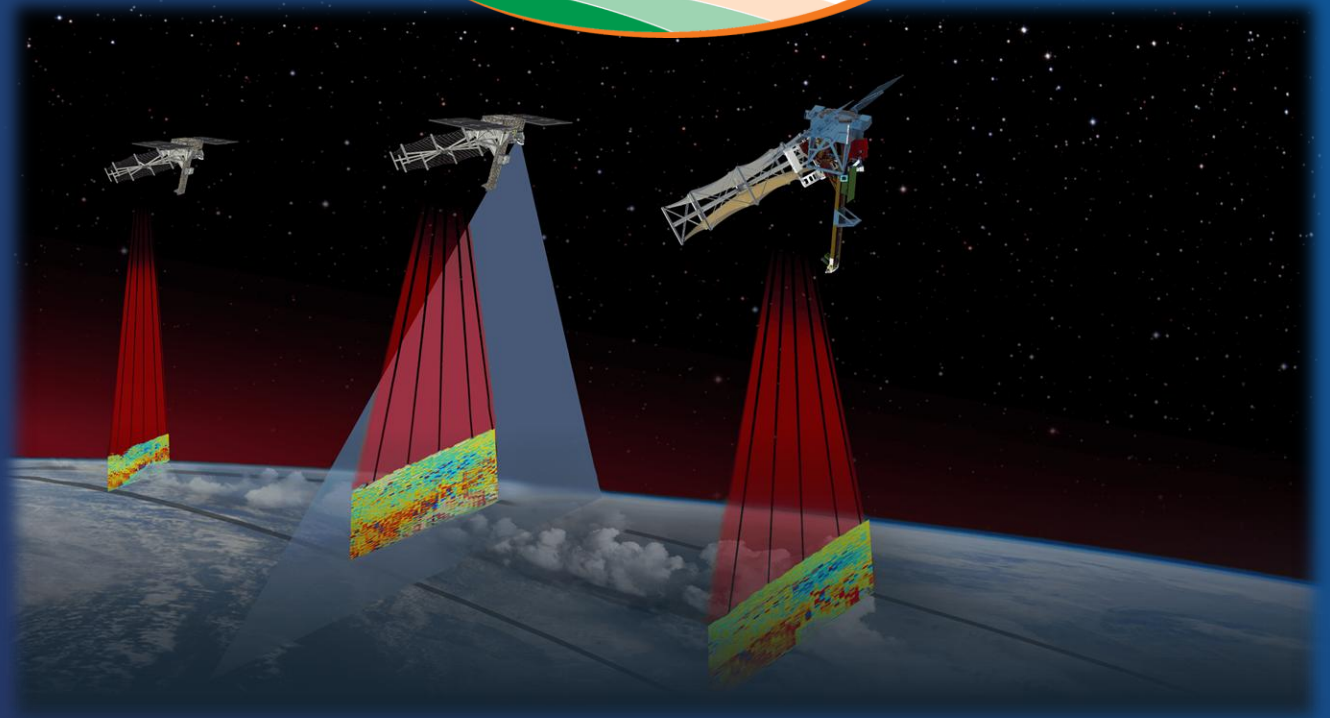
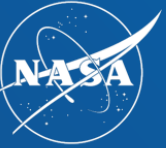


INvestigation of Convective UpdraftS INCUS

Competed Venture Class Mission
(CSU/JPL)

- Why convective storms, heavy precipitation and clouds occur exactly when and where they do
- First ever measurements of how much water and air is lifted (convective mass flux) into the atmosphere to understand and improve prediction of severe weather

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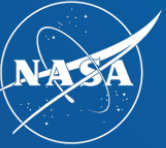
Polarized Submillimeter Ice-cloud Radiometer PoISIR

Competed Venture Class Mission (Vanderbilt/GSFC)

- Diurnal variability of tropical and sub-tropical ice clouds to reduce a fundamental uncertainty in Earth system understanding of how and why ice clouds change throughout the day
- Deep convection re-distributes energy around the Earth, and its evolution in a changing climate is an incredibly complicated process
- Observations from PoISIR's two CubeSats will increase understanding of the diurnal cycle of deep convection



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NISAR Launch

July 30, 2025

The Indian Space Research Organisation's Geosynchronous Satellite Launch Vehicle lifted off from Satish Dhawan Space Centre on India's southeastern coast at 8:10 a.m. EDT (5:40 a.m. IST), July 30, 2025.

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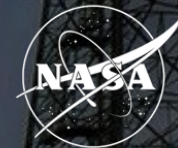
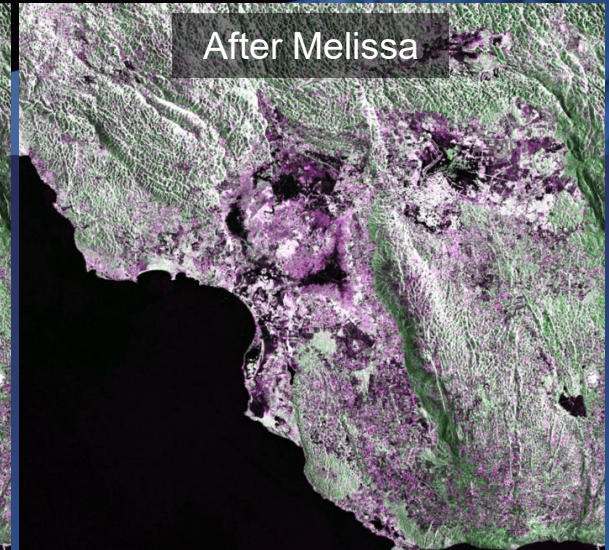
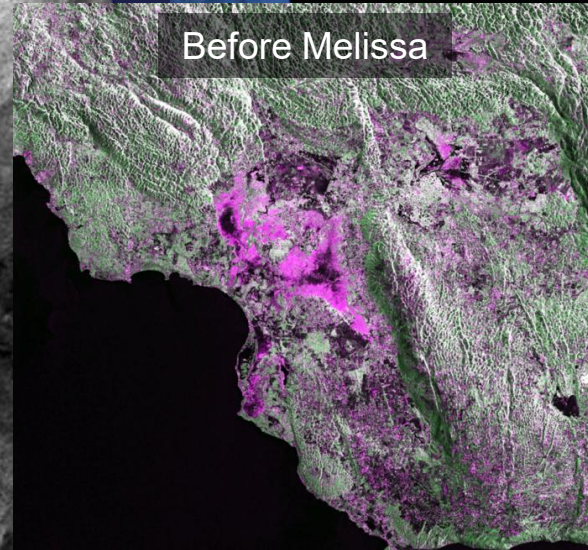
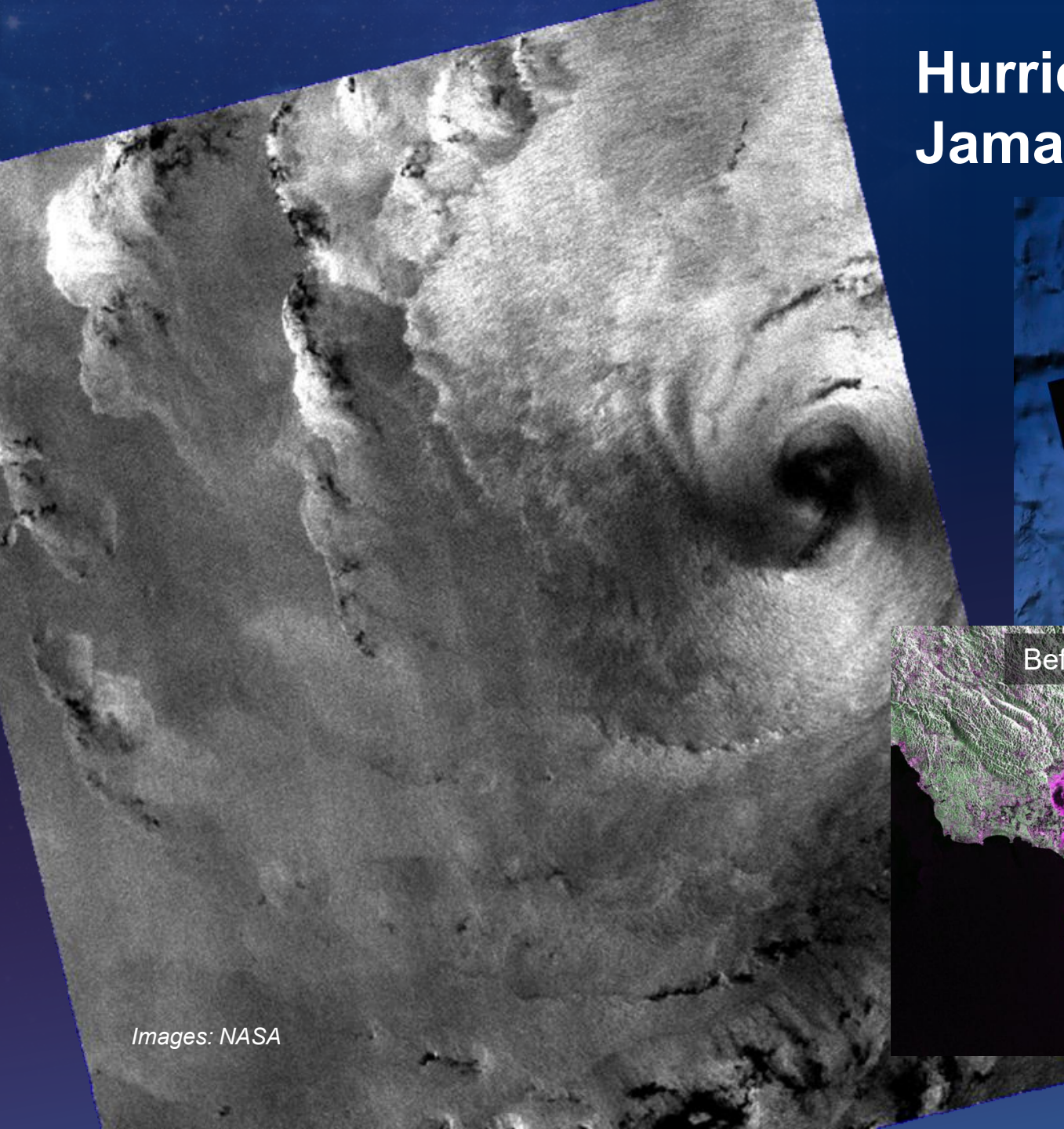
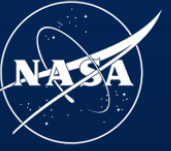


Image: ISRO



Hurricane Melissa, Jamaica, October 2025

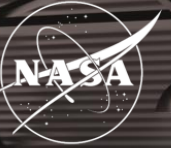
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Images: NASA



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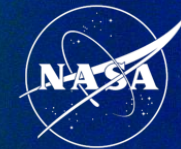
The ESD Airborne Science Program is modernizing
and recapitalizing a diverse fleet to support world-
class airborne science well into the future



Image: NASA



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Thank You

TOKYO

MT. FUJI



Image: NASA

*NISAR false color composite
image of Tokyo and Mt. Fuji*