

# Science and Technology Office

David Burns, Director

March 14, 2018

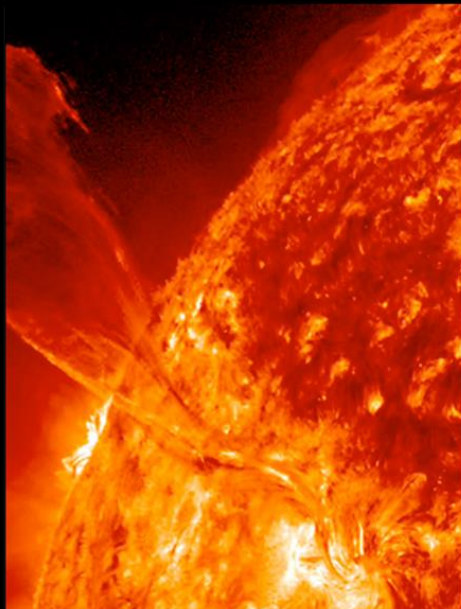
National Aeronautics and  
Space Administration



**MARSHALL**  
SPACE FLIGHT CENTER



**Astrophysics**



**Heliophysics**

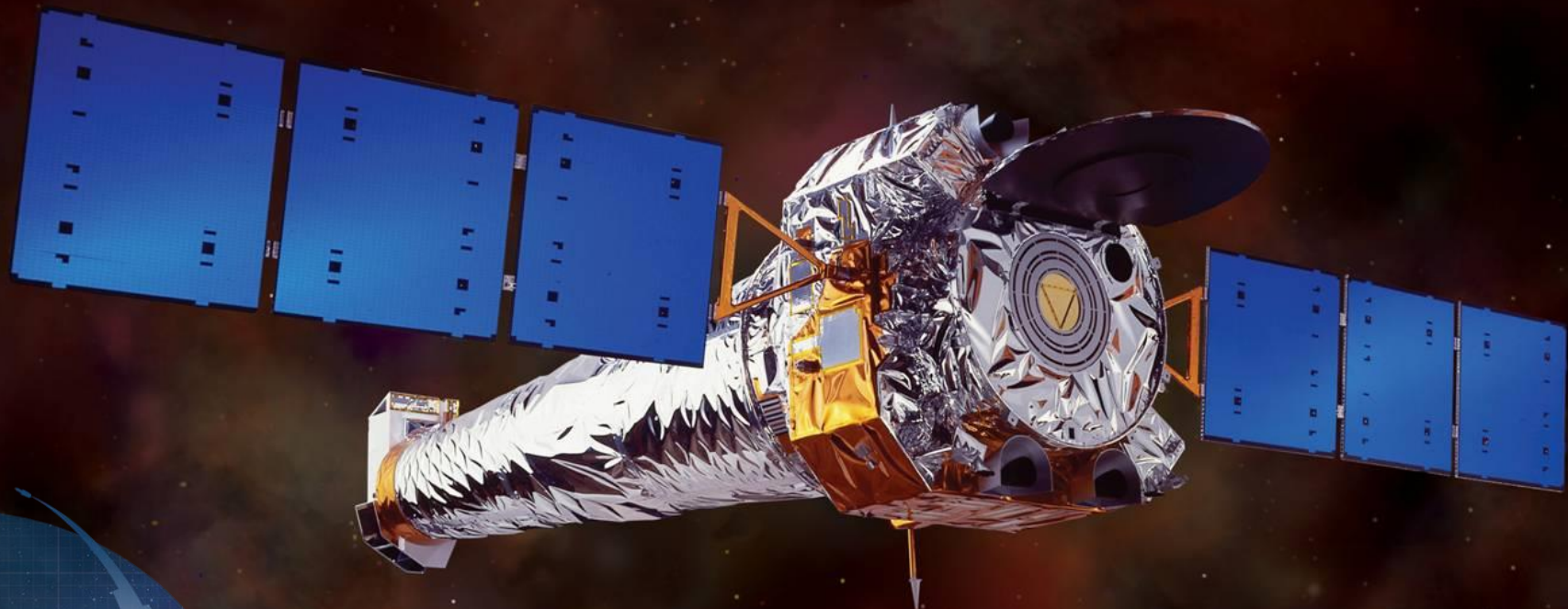


**Earth Science**

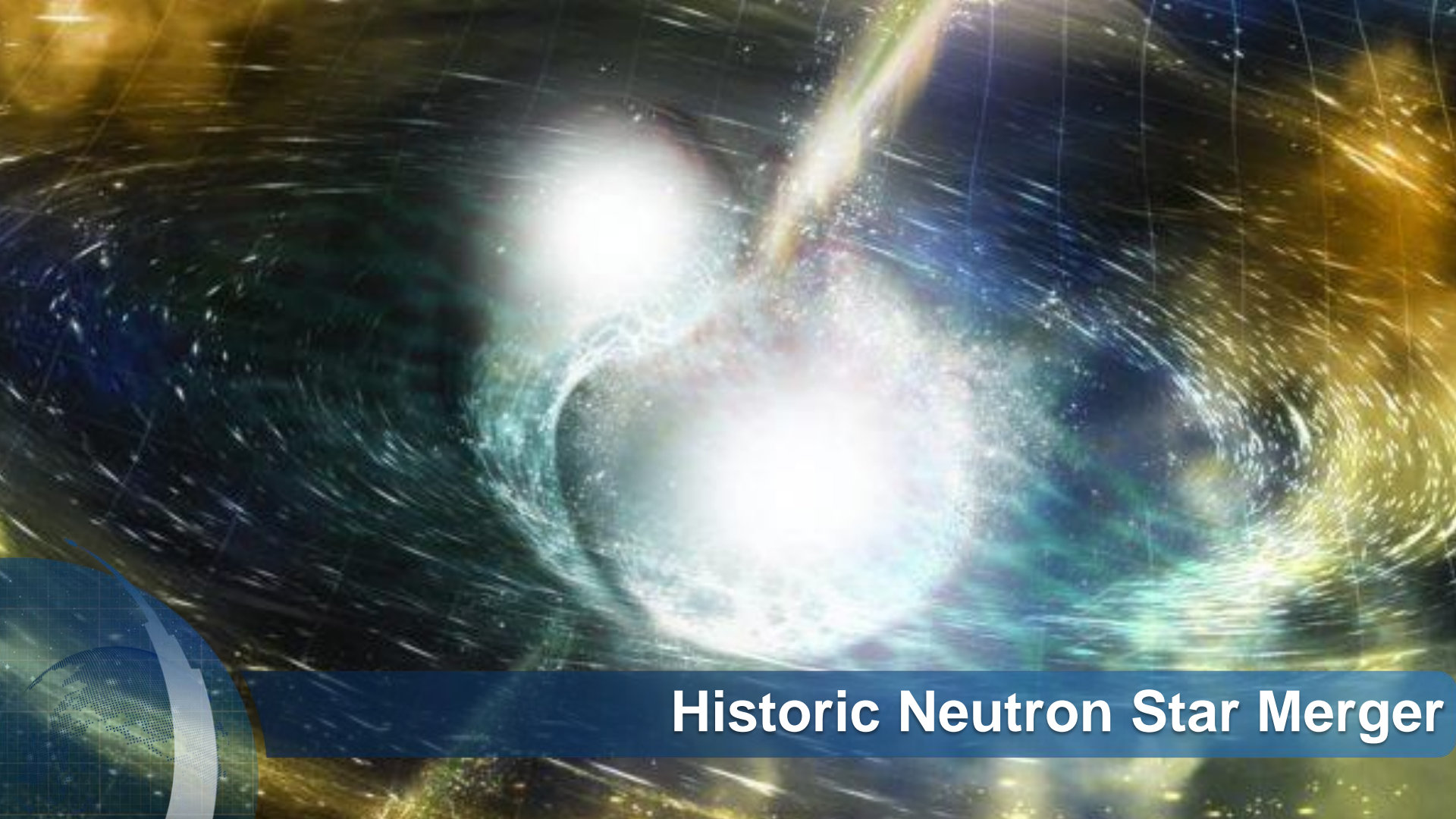


**Planetary Science**

Chandra X-ray Observatory

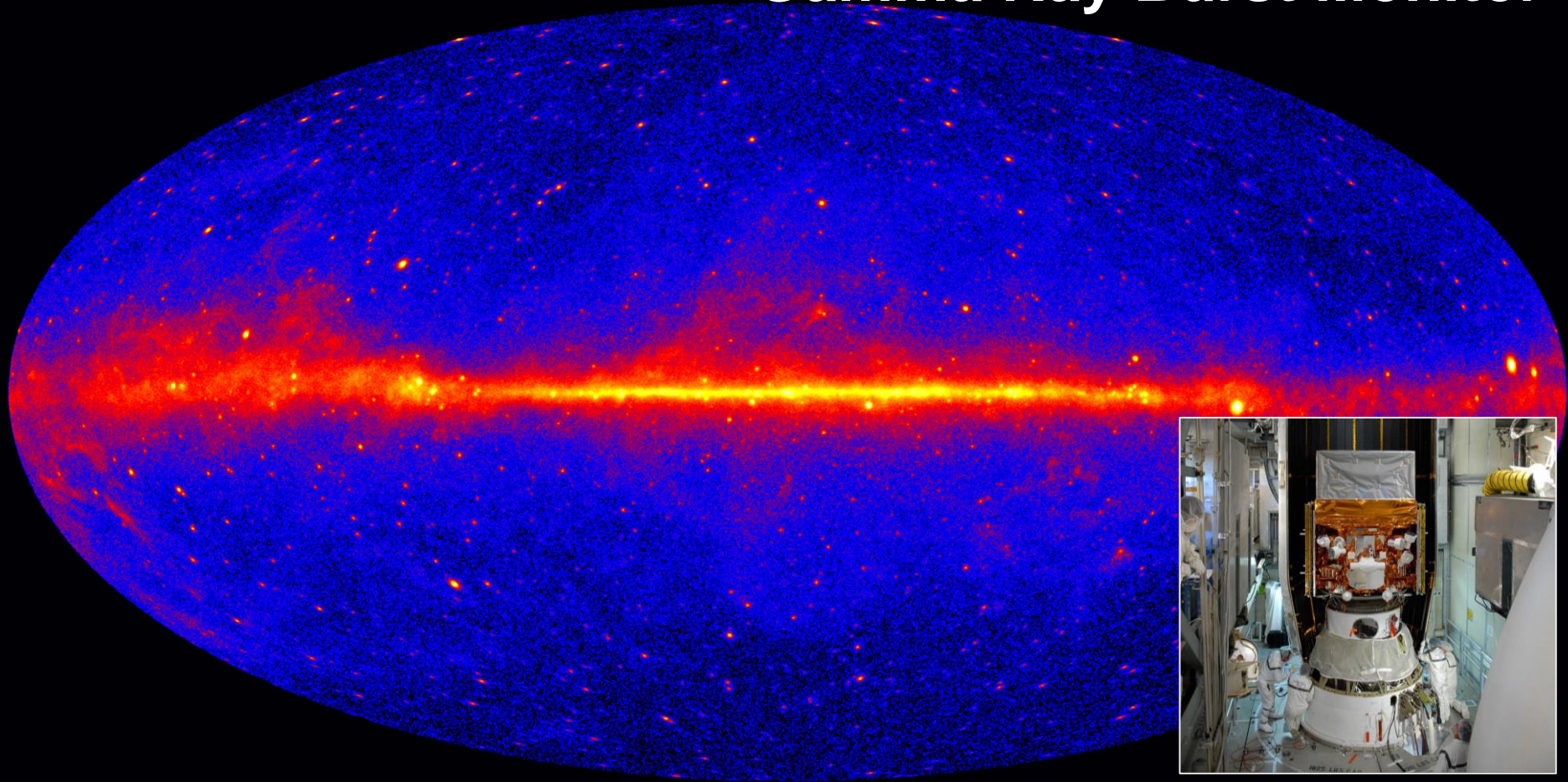


**Astrophysics**

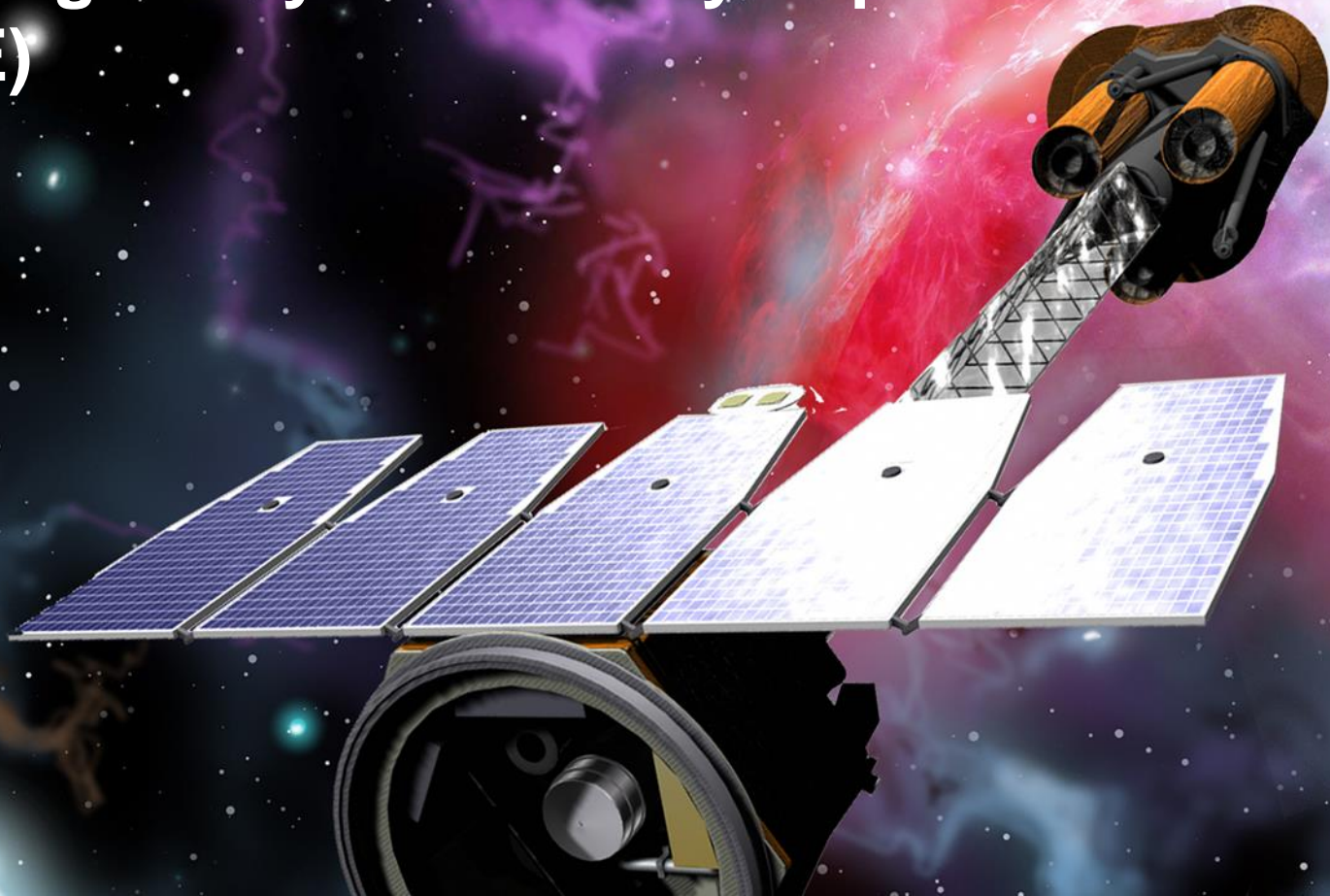


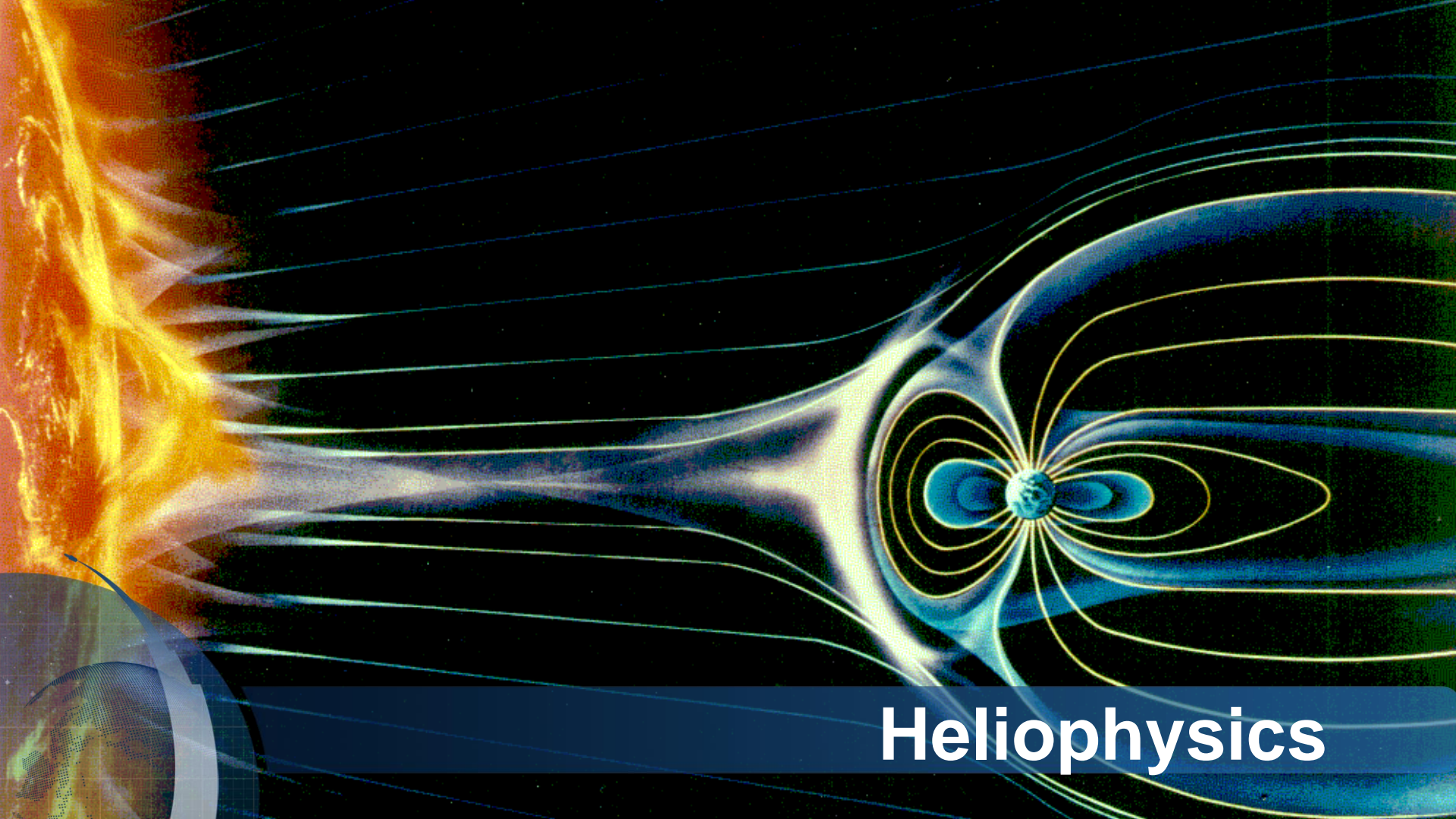
# Historic Neutron Star Merger

# Gamma Ray Burst Monitor



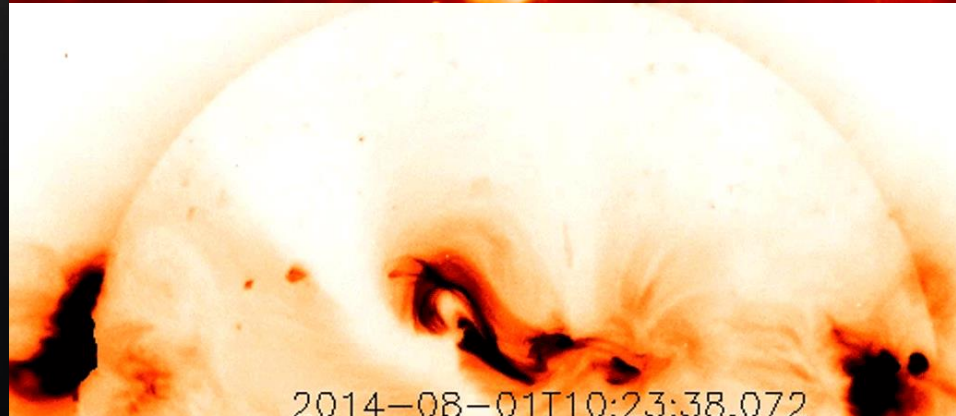
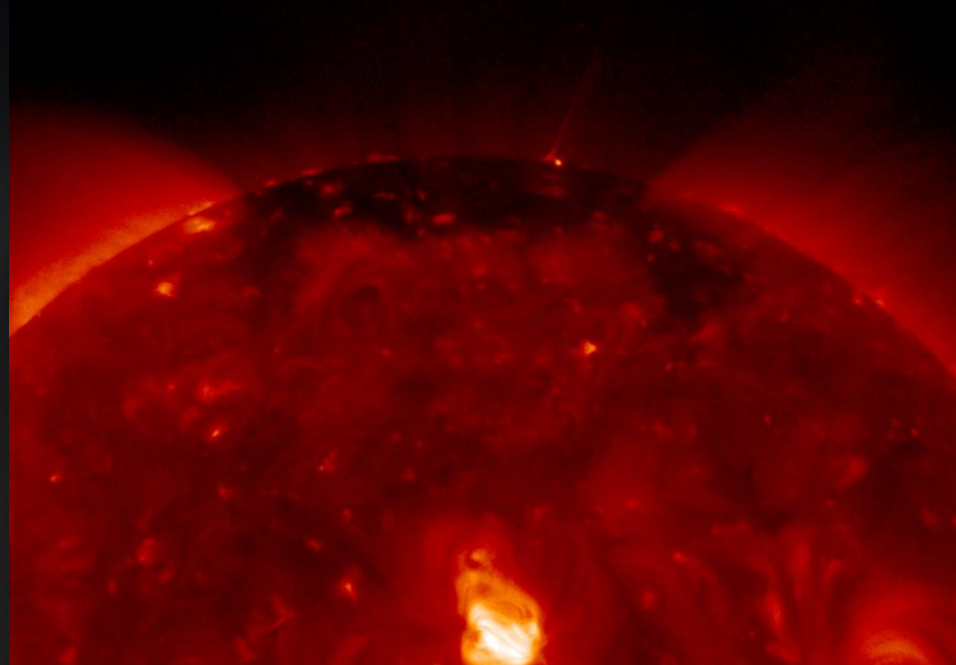
# Imaging X-Ray Polarimetry Explorer (IXPE)





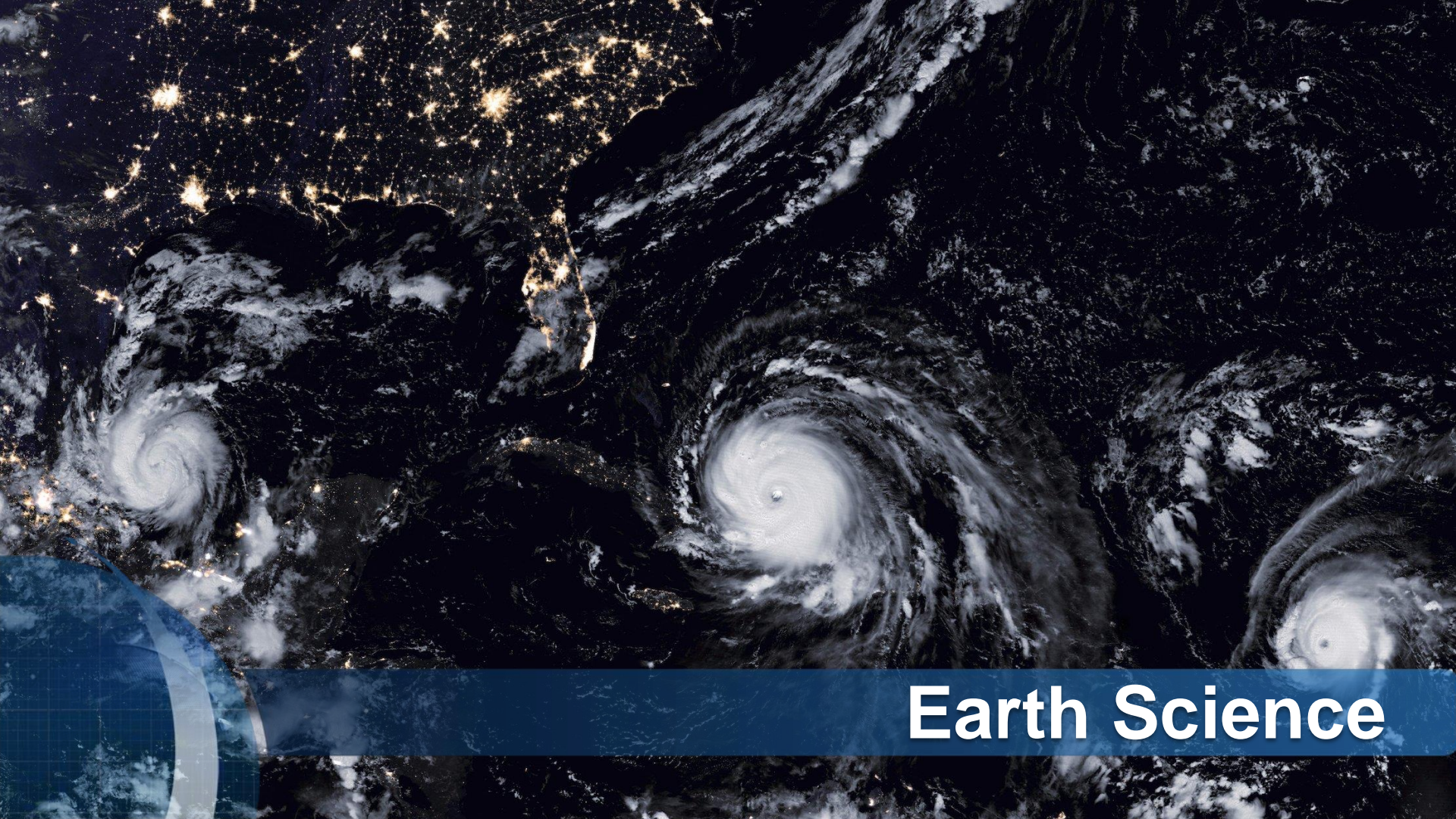
# Heliophysics

# August 2017 Total Solar Eclipse



2014-08-01T10:23:38.072





# Earth Science

# OLYMPIC FORECAST: SNOW

NASA scientists and instruments will be in South Korea during the 2018 Winter Olympics to study snow - how well we observe it from satellites and how to better forecast it - as part of the ICE-POP 2018 field campaign.

Learn more: [@NASARain](#) [#ICEPOP](#)



NASA  
**EARTH**  
YOUR HOME.  
OUR MISSION.

Image Credit: Republic of Korea, CC BY-SA 2.0

# SPoRT

PRE-OPERATIONAL





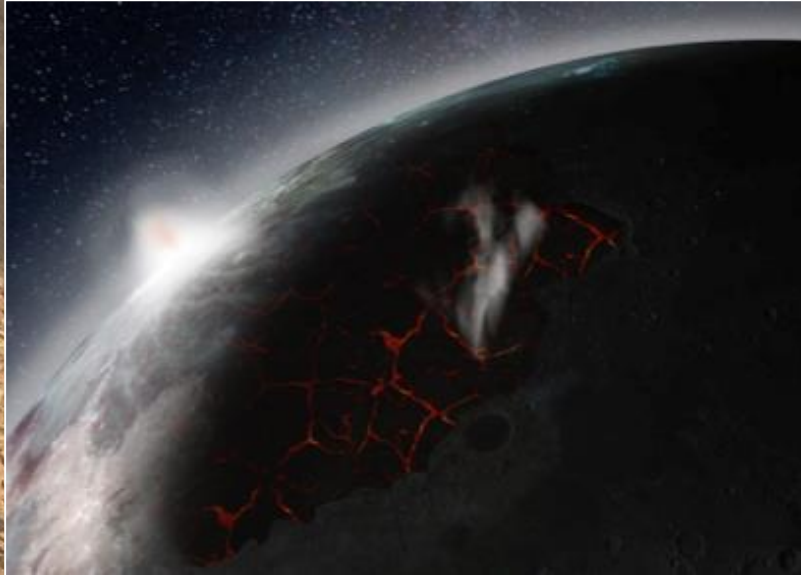
# SERVIR





# Planetary Science

# Mars 2020



# Earth



Notional Commercial Platform

ISS

Commercial launch Vehicles

# Moon



Orion



SLS



Commercial Lunar Lander



Robotic Surface Missions



Lunar Orbital Platform - Gateway  
PPE- Habitat - Airlock - Logistics

# Mars



Mars robotic exploration, technology development

**In LEO**  
Commercial & International partnerships

**In Cislunar Space**  
A return to the moon for long-term exploration

**On Mars**  
Research to inform future crewed missions



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