



PUNCH4 – NASA Heliophysics Connections

Peg Luce

Acting Director, Heliophysics Division, NASA

NASA Heliophysics Division Leadership



Nicole (Nicki) Rayl, Associate Director for Flight



Peg Luce, Acting Division Director



Therese Moretto-Jorgensen
Acting Deputy Division Director

HPD STAFFING UPDATES

Welcome and Congratulations!



Gene Fisher



Kelly Korreck



Janet Kozyra



Reiner Friedel



Elizabeth Esther

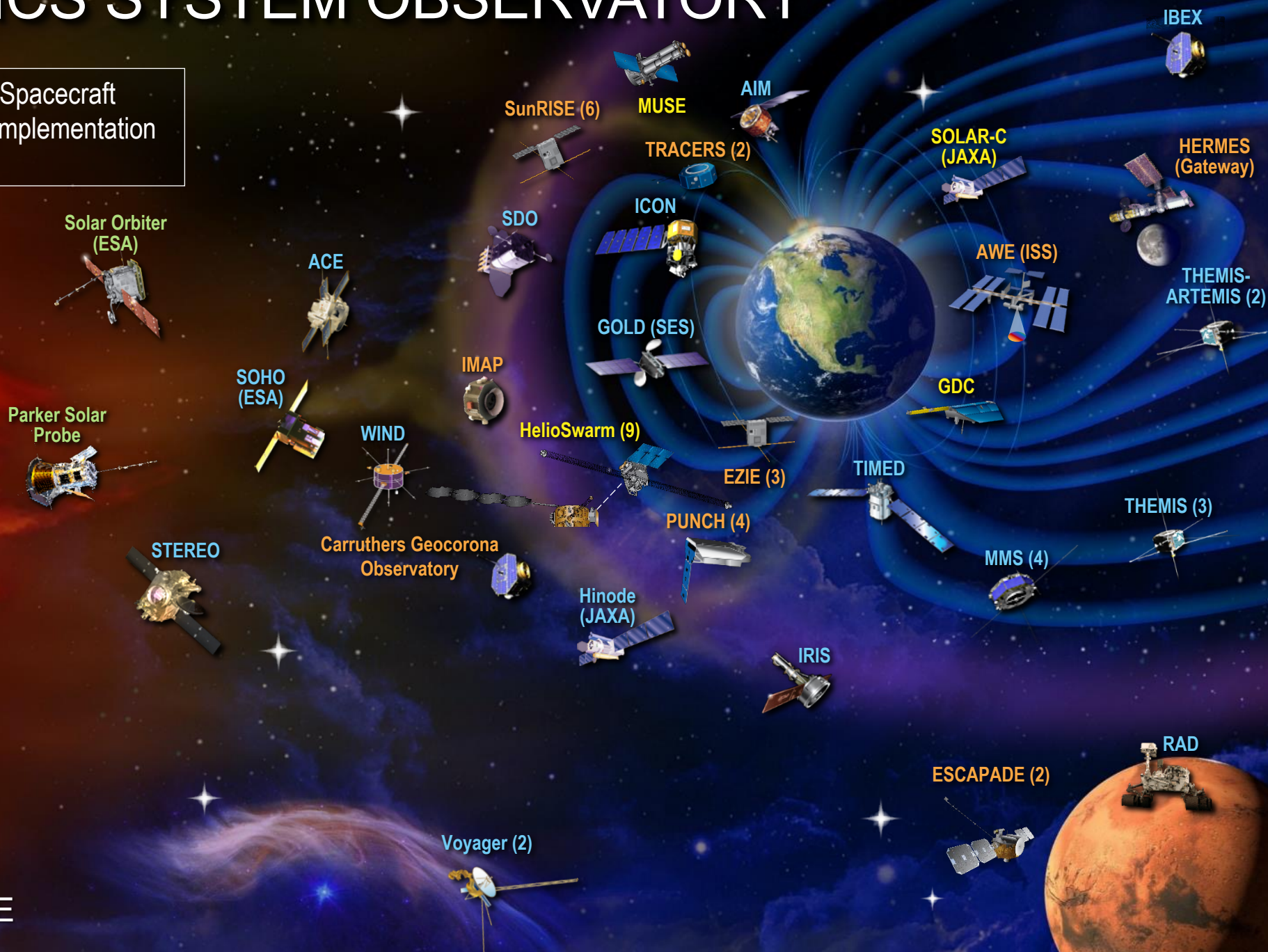
Hiring for new Program Scientists is underway!

HELIOPHYSICS
BIG YEAR

HELIOPHYSICS SYSTEM OBSERVATORY

- 19 Operating Missions with 26 Spacecraft
- 13 Missions in Formulation or Implementation
- 1 in Pre-Formulation

■	FORMULATION
■	IMPLEMENTATION
■	PRIMARY OPS
■	EXTENDED OPS



OPERATING & FUTURE

HELIO MISSION FLEET TIMELINE

AWE

ESCAPADE

Carruthers
Geocorona
Observatory

IMAP

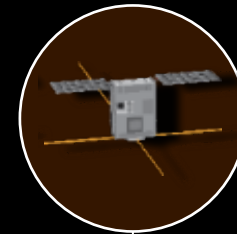
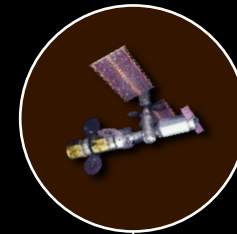
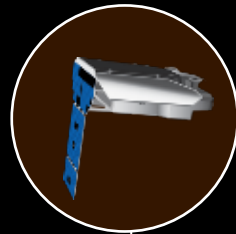
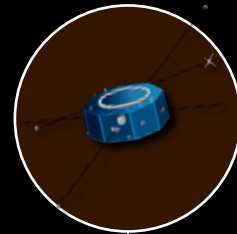
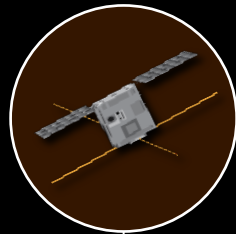
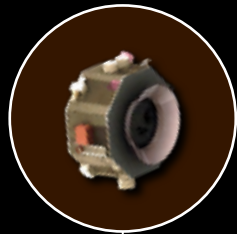
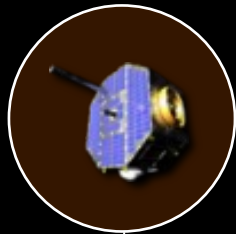
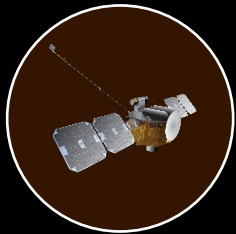
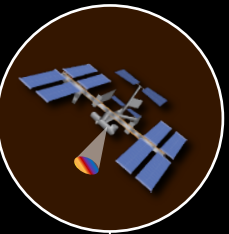
SunRISE

TRACERS

PUNCH

HERMES

EZIE



November
2023

October
2024

February
2025

February
2025

March
2025

April
2025

April
2025

October
2025

March
2026

Two solar eclipses

Annular on October 14, 2023,
and total on April 8, 2024,
across North America



HELIOPHYSICS BIG YEAR

Solar Cycle 25

Solar maximum will present more opportunities to experience space weather

For additional information, please visit

[Eclipses Home](#) | [Eclipses – NASA Solar System Exploration](#)

Parker Solar Probe

Parker will make its
closest approach to the
Sun in December 2024



The 2023 & 2024 Solar Eclipses through the eyes of NASA

Lunar topography data from NASA's Lunar Reconnaissance Orbiter and the Japan Aerospace Exploration Agency's SELENE lunar orbiter were used to precisely calculate the location of the Moon's shadow for the 2023 and 2024 solar eclipses. The planetary positions are from NASA's Jet Propulsion Laboratory Development Ephemeris 421. Earth imagery from NASA's Blue Marble: Next Generation series were used to create the terrain and Earth at night imagery from NASA's Black Marble were used under the eclipse paths.

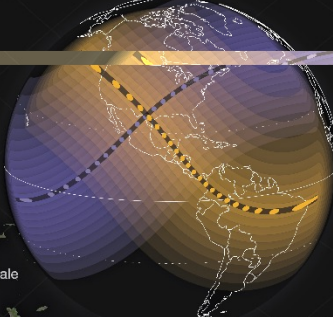
2023 Annular Solar Eclipse Saturday October 14, 2023
2024 Total Solar Eclipse Monday April 8, 2024

Credit: Michala Garrison and the Scientific Visualization Studio (SVS), in collaboration with the NASA Heliophysics Activation Team (NASA HEAT), part of NASA's Science Activation portfolio
 Eclipse calculations by Ernie Wright, NASA Goddard Space Flight Center

2023 Path of Annularity Sat. October 14, 2023
 Along a path about 125 miles wide, the Sun will appear as a "ring of fire" in the sky. Annularity lasts up to 5 minutes depending on the viewer's location within this path.

2024 Path of Totality Mon. April 8, 2024
 Along a path about 115 miles wide, the Moon will completely block the Sun in the sky. Totality lasts up to about 4 minutes and 20 seconds depending on the viewer's location within this path.

Outside of these paths, viewers within the 48 contiguous U.S. states and many other areas will see a partial solar eclipse (in the shaded areas below).



Find More: <http://solarsystem.nasa.gov/eclipses>

Get Involved and Stay Informed!

Stay in touch and help us find new ways to highlight your work and keep you in the loop!

Sign up for the NASA Eclipse Newsletter to receive updates on eclipse activities!

- <https://tinyurl.com/ym9epkij>

Let us know what you've been working on:

- <https://bit.ly/SubmitHelioScience>

Learn more about the next solar eclipse:

- <https://solarsystem.nasa.gov/eclipses/home/>

Join us for our next Community Town Hall:

- <https://science.nasa.gov/researchers/virtual-townhall>

For additional details on Eclipse information and events:

- [Events | News – NASA Solar System Exploration](#)



NASA.gov/sunearth



blogs.nasa.gov/sunspot



[@NASASun](https://twitter.com/NASASun)



facebook.com/NASASunScience