Careers in Heliophysics:
An Info Session on Careers Exploring the Sun, Planetary Magnetospheres, Space Weather, and Space Plasma Physics
Plan for Today

• Announcements (~5 min)

• Introduction to Heliophysics (~5 min)

• Panel Member Presentations (~5 min each)
  • Academic
    • David Malaspina (CU Boulder)
  • Civilian Government
    • Alexa Halford (Goddard Space Flight Center)
  • Space Weather
    • Richard Sheppard (NOAA Space Weather Prediction Center)
  • Military
    • Alex Fletcher (US Naval Research Lab)
  • Commercial
    • Connie Spittler (Ball Aerospace)

• Open for discussion
Contact information for presenters:

Alexa Halford (NASA/GSFC): alexa.j.halford@nasa.gov

Alex Fletcher (Naval Research Lab): alex.fletcher@nrl.navy.mil

Richard Sheppard (Space Weather Prediction Center): richard.sheppard@colorado.edu

David Malaspina (CU Boulder): david.malaspina@colorado.edu

Connie Spittler (Northrup Grumman / Ball / LASP): connie.spittler@lasp.colorado.edu
The space environment touches our lives, every day.
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Heliophysics seeks to understand the nature of the space environment.

Heliophysics seeks to detect, predict, and adapt to extreme conditions in space, to protect life and society and to safeguard exploration beyond Earth.
The Sun (center of the solar system)

The Solar Wind (the space between solar system objects)

The Edge of the Solar System (outer edge of the solar system)

Ionospheres (outer edge of a planetary atmosphere)

Magnetospheres (regions of space influenced by planets)

What is Heliophysics?
The space environment touches our lives, every day.
Types of Heliophysics Careers

Commercial

Academic

Military

Civilian Government
Heliophysics: Civilian Government
Heliophysics: Space Weather

MODERATE Geomagnetic Storm WATCH Valid for 11-12 Nov

WHAT: A Coronal Mass Ejection (CME) is expected to arrive at Earth on 11 Nov

EVENT: A halo CME associated with a solar eruption located near S15W15 at 09/1115 UTC

TIMING: The CME is expected to arrive at Earth around 1800 UTC on Nov 11, with effects persisting into the early hours of 12 Nov (UTC)

EFFECTS: G2 storm levels are likely on 11-12 Nov
Heliophysics: Military

Communications
ISR

A2/AD Environments / Multi-Domain

Polar Operations

Safety of Flight

Ballistic Missile Defense
Heliophysics: Commercial
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