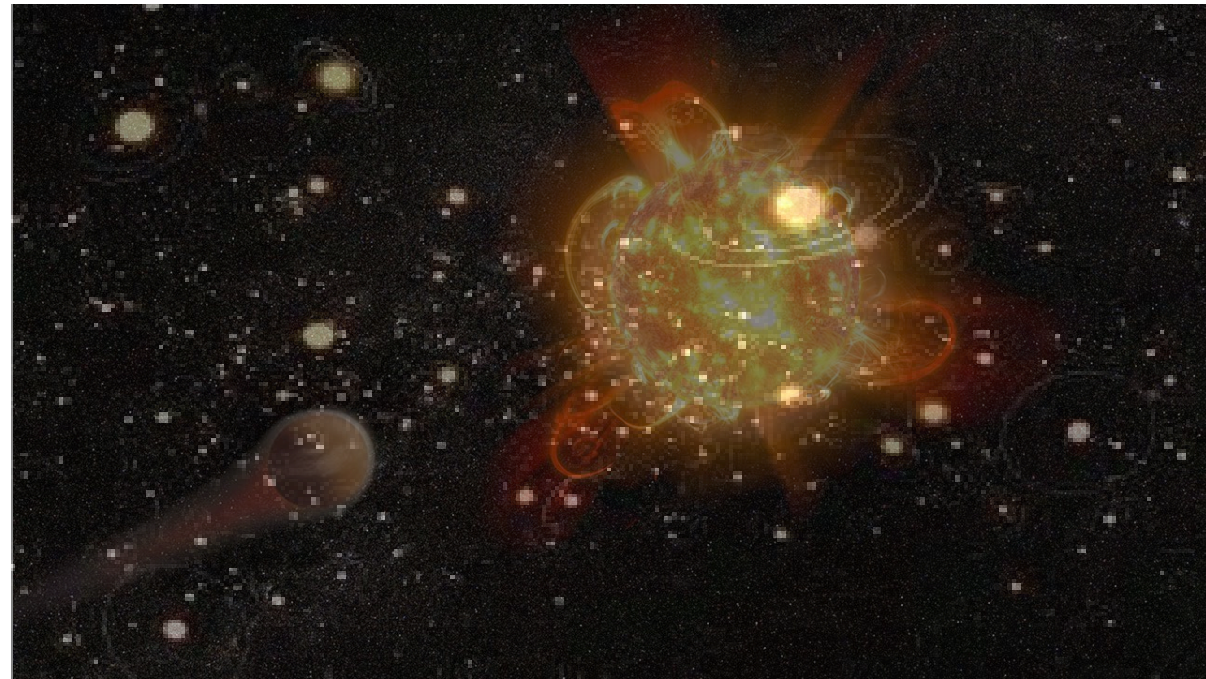
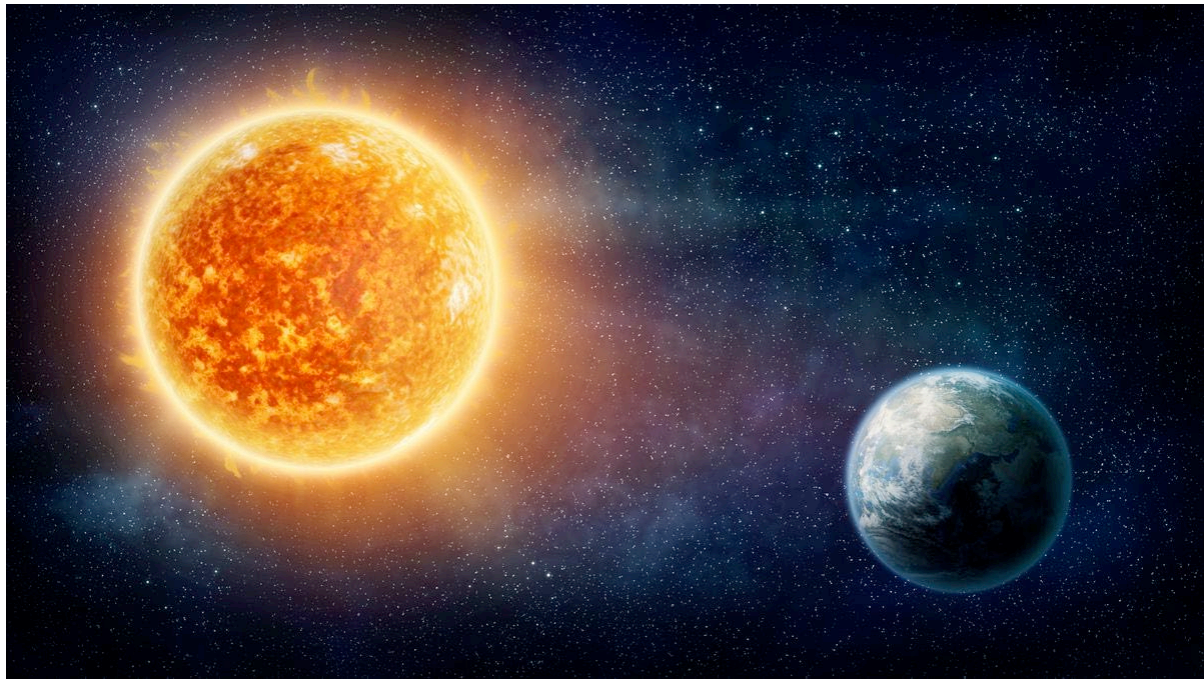
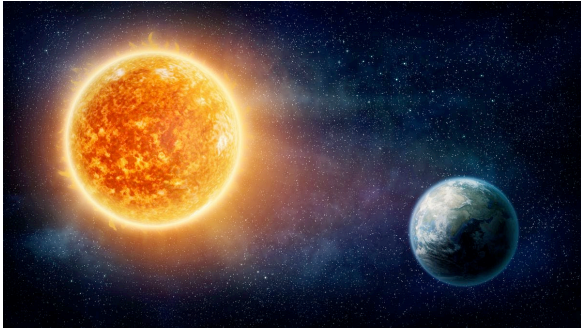


# *Solar and Stellar Variability and its Impacts on Earth and Exoplanets*

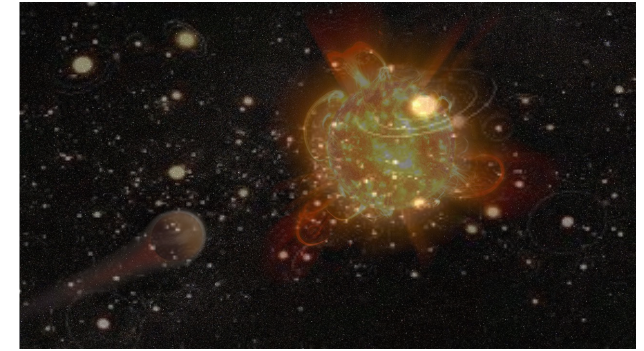
Sun-Climate Symposium  
October 17-20, 2023



# *Solar and Stellar Variability and its Impacts on Earth and Exoplanets*



## Sun-Climate Symposium October 17-20, 2023



### Science Organizing Committee (SOC)

- **Odele Coddington**, Laboratory for Atmospheric and Space Physics
- **Jeff Hall**, Lowell Observatory \*\*\*
- **Dan Lubin**, Scripps Institution of Oceanography
- **Greg Kopp**, Laboratory for Atmospheric and Space Physics
- **Joe Llama**, Lowell Observatory \*\*\*
- **Jae Lee**, NASA Goddard Space Flight Center
- **Peter Pilewskie**, Laboratory for Atmospheric and Space Physics
- **Doug Rabin**, NASA Goddard Space Flight Center
- **Erik Richard**, Laboratory for Atmospheric and Space Physics
- **Tyler Ryburn**, Lowell Observatory \*\*\*
- **Tom Stone**, USGS Astrogeology Science Center
- **Ed Thiemann**, Laboratory for Atmospheric and Space Physics
- **Tom Woods**, Laboratory for Atmospheric and Space Physics
- **Dong Wu**, NASA Goddard Space Flight Center

### Conference Coordinator

Kelly Boden

[kelly.boden@lasp.colorado.edu](mailto:kelly.boden@lasp.colorado.edu)

\*\*\* = Locals

# Meeting Announcements

- Welcome to Flagstaff !



- Program

- It is posted at <https://lasp.colorado.edu/meetings/2023-sun-climate-symposium/2023-scs-agenda/>
  - Or google “2023 Sun Climate Symposium Agenda”
- Six Sessions including a poster session on Wednesday
- Speakers can load their presentation during breaks
  - Or use their own computer (HDMI connection; we have converters)

- Posters

- Posters boards will be available Wednesday morning (7 AM)
- **Poster Session is Wednesday 4-6 PM and includes Reception**
- Posters boards will be removed Thursday evening (5 PM)



# Meeting Announcements



- Thursday Banquet (6-9 PM)
  - 6 tickets still available (\$50) – see Kelly Boden
  - National Park rangers will be making a presentation about Grand Canyon fossils
- Masks are optional in Flagstaff and at the conference
  - If you visit **Navajo Nation** nearby, **masks are required**
- Phoenix airport shuttle option
  - Groome Transportation: <https://groometransportation.com/flagstaff/>
    - 3-hour ride, Amtrack Station pickup, requires reservation, cadence is once per hour

# Tuesday, October 17

- Continental Breakfast: 7-8 AM
- Introduction
  - Erik Richard: Overview of NASA Sun-Climate Missions and Research Projects
- Session 1: Solar and Stellar Activity Cycles
  - 8:35 AM – 1:45 PM
  - Lunch Buffet Provided
- Session 2: Impacts of Stellar Variability on Planetary Atmospheres
  - 1:50 PM – 4:55 PM

# Wednesday, October 18

- Continental Breakfast: 7-8 AM
- Session 3: Evidence of Centennial and Longer-term Variability in Climate
  - 8:00 AM – 12:10 PM
  - Lunch Buffet Provided
- *FREE TIME*: 1:30 – 4:00 PM
- Poster Session: 4:00 – 6:00 PM
  - Reception

Grand Canyon  
Flagstaff  
Wupatki Pueblo  
Sunset Crater Volcano  
Tuzigoot Pueblo  
Walnut Canyon  
Montezuma Castle



# Thursday, October 19

- Continental Breakfast: 7-8 AM
- Session 3: *continued at 8:00 AM*
- Session 4: Evidence of Short-term Variability in Climate Change
  - 8:20 AM – 11:35 AM
  - *Lunch on your own*
- Session 5: Trending of Solar Variability and Climate Change for Solar Cycle 25 (present and future)
  - 2:00 PM – 4:45 PM
- Reception and Banquet: 6 - 9 PM
  - National Park rangers presentation about Grand Canyon fossils

# Friday, October 20

- Continental Breakfast: 7-8 AM
- Session 5: Trending of Solar Variability and Climate Change for Solar Cycle 25 (present and future)
  - 8:00 AM – 10:15 AM
- Meeting Wrap-up: 10:15-10:45 AM
  - Meeting summary
  - Discuss ideas for 2025 Sun-Climate Symposium

