

Updated March 13, 2025



2025 Space Weather Workshop Top Level Agenda

Theme: *Guiding the Future: Integrating Heliophysics Insights and User Needs*

Times in MDT

Monday, March 17 - Pre-Workshop Events

9:00 AM – 12:00 PM	R2O2R Location: Pearl St. Ballroom LEFT “Walnut” and CENTER “Mall”
10:00 AM - 12:00 PM	CGMS-ISES Coordination Meeting (by invitation only) Location: “Foothills” Meeting Room
11:00 AM – 12:00 PM	NSF NCAR's Earth System Predictability Across Timescales (ESPAT) Initiative: Collaborate with us on Advancing Space Weather Predictability Location: Pearl St. Ballroom RIGHT “East-West”
1:00 PM - 3:00 PM	DoD Space Weather Enterprise (by invitation only) Location: Pearl St. Ballroom RIGHT “East-West”
1:00 PM - 5:00 PM	ISES Annual Meeting (by invitation only) Location: “Foothills” Meeting Room
1:00 PM - 5:00 PM	NOAA Space Weather Scales Location: Pearl St. Ballroom LEFT “Walnut” and CENTER “Mall”
3:00 PM - 5:00 PM	Student Program (for students and invited participants) Location: “Royal Arch” Meeting Room
5:30 PM - 7:30 PM	Networking Session for Registered Space Weather Workshop Participants Location: NCAR Mesa Lab – Limited round-trip transportation between Embassy Suites and Mesa Lab will be provided on a first come/first serve basis.

Tuesday, March 18

Location: Pearl St Ballroom

8:30 AM – 8:45 AM	Welcome and Opening Remarks
8:45 AM - 9:00 AM	Space Weather Events and Impacts - Year in Review

9:00 AM - 9:45 AM	Heliophysics Decadal Survey: Building on Past Accomplishments and Setting Future Priorities
9:45 AM – 9:55 AM	Special Presentation: Release of User Engagement Report on NOAA Space Weather Scales Revision
9:55 AM - 10:45 AM	Break and Poster Session: Solar and Interplanetary Research and Applications
10:45 AM – 11:00 AM	Special Presentation: Space Weather Advisory Group (SWAG) Results of the First National Survey of User Needs for Space Weather
11:00 AM - 12:05 PM	Building Resilience: Agency and Industry Approaches to Space Weather Policy Implementation
12:05 PM - 1:30 PM	Lunch
1:30 PM - 2:30 PM	Space Weather Storms and Their Impact on LEO Satellites: Protection, Preparedness, and Response
2:30 PM - 2:45 PM	Special Presentation: The Essential Roles of Space Weather Prediction in Spacecraft Design, Mission Planning, and Operational Safety
2:45 PM - 3:15 PM	Poster Lightning Talks: Solar and Interplanetary Research and Applications
3:15 PM - 4:00 PM	Break and Poster Session: Solar and Interplanetary Research and Applications
4:00 PM - 5:00 PM	Navigating the Future: Space Weather Strategies for Medium Earth Orbit (MEO), Geosynchronous Equatorial Orbit (GEO), and Beyond
5:00 PM - 5:15 PM	Special Presentation: Polarimeter to Unify the Corona and Heliosphere (PUNCH)
5:15 PM - 5:45 PM	Poster Lightning Talks: Ionosphere and Thermosphere Research and Applications and Aviation Radiation Research and Applications

Wednesday, March 19 Location: Pearl St Ballroom

8:15 AM - 8:30 AM	Today's Space Weather Forecast + Q&A
8:30 AM - 10:00 AM	Beyond the Aurora: Safeguarding the Power Grid during the May 2024/Gannon Storm
10:00 AM – 10:15 AM	Special Presentation: Gauging National Preparedness for Space Weather Events – Findings from the May 2024 Tabletop Exercise
10:15 AM - 11:00 AM	Break and Poster Session: Ionosphere and Thermosphere Research and Applications and Aviation Radiation Research and Applications and Geospace/Magnetosphere Research and Application
11:00 AM - 12:10 PM	Space Weather Support for Artemis and Human Space Flight
12:10 PM - 1:30 PM	Lunch and Other Activities: Student Program Lunch (for students and invited participants) Location: “Royal Arch” Meeting Room
1:30 PM - 2:45 PM	Understanding and Mitigating Space Weather Impacts on Aviation
2:45 PM - 3:40 PM	Break and Poster Session: Ionosphere and Thermosphere Research and Applications and Aviation Radiation Research and Applications and Geospace/Magnetosphere Research and Application
3:40 PM - 4:45 PM	The 2024 Space Weather User Needs - Other Sectors
4:45 PM - 5:00 PM	Special Presentation: Unveiling Space Weather Mysteries through Total Solar Eclipses
5:00 PM - 5:30 PM	Poster Lightning Talks: Geospace/Magnetosphere Research and Applications and Space Weather Policy and General Space Weather Contributions
7:00 PM - 9:00 PM	Banquet and After-Dinner Presentation: Charting New Frontiers: NASA’s Parker Solar Probe Reaches Historic Milestone in Solar Exploration

Thursday, March 20Location: Pearl St Ballroom

8:30 AM - 9:45 AM	Observing, Modeling and Forecasting the Ionosphere: Supporting Communications and Navigation
9:45 AM - 10:45 AM	Break and Poster Session: Geospace/Magnetosphere Research and Applications and Space Weather Policy and General Space Weather Contributions
10:45 AM - 11:00 AM	Special Presentation: Advancing Space Weather Socio-economic Impact Assessments
11:00 AM - 12:15 PM	Navigating the Storm: Effective Space Weather Communication Strategies
12:15 PM - 1:30 PM	Lunch
1:30 PM - 2:30 PM	Emerging Workforce Development
2:30 PM - 3:30 PM	Break and Poster Session: Geospace/Magnetosphere Research and Applications and Space Weather Policy and General Space Weather Contributions
3:30 PM - 4:40 PM	Bridging the Gap: Overcoming Challenges in Ground-Based Observations for Space Weather Forecasting
4:40 PM - 5:30 PM	Empowering Resilience to Space Weather through Enhanced Observations

Friday, March 21Location: Pearl St Ballroom

8:30 AM - 9:40 AM	Advances in Space Weather Modeling
9:40 AM - 10:00 AM	Break
10:00 AM - 10:15 AM	Special Presentation: Opening New Horizons with the Korea-led L4 Mission: March 2025 Progress Report
10:15 AM - 11:05 AM	Developing Global Resilience to Space Weather Storms
11:05 AM - 12:05 PM	Innovation and Advancement of Space Weather Products and Services
12:05 PM - 12:15 PM	Special Presentation: Exploring the Cycle-Dependent Nature of Extreme Geomagnetic Storms
12:15 PM - 12:25 PM	Closing Remarks

Post-Workshop Events

1:00 PM - 3:00 PM	ISES Annual Meeting Location: Location: “Royal Arch” Meeting Room
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