

Updated June 10, 2026



2026 Space Weather Workshop Agenda

Embassy Suites by Hilton Boulder, 2601 Canyon Blvd, Boulder, CO 80302 and neighboring Hilton Garden Inn

Theme – *Space Weather & Society: Transforming Services & Science to Meet User Needs*

Times in MDT

Monday, April 27	Pre-Workshop Events
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8:00 AM – 10:00 AM	I-ALiRT Ground Station (by invitation only) Location: “Royal Arch”
9:00 AM – 10:30 AM	SWORD External Advisory Committee Meeting (by invitation only) Location: “Enchanted Mesa”
9:00 AM – 5:00 PM	<u>Second Annual Space Weather R2O2R Meeting</u> (public, in-person only) Location: Pearl St. Ballroom LEFT “Walnut” and CENTER “Mall”
10:00 AM – 12:00 PM	User Readiness for Space Weather Data from NOAA Satellite Programs Location: Pearl St. Ballroom RIGHT “East-West”
12:00 PM – 2:00 PM	National Security Breakout Session (by invitation only) Location: “Royal Arch”
1:00 PM – 5:00 PM	<u>Mini-Workshop: DHS Space Weather Benchmarks Update for Critical Infrastructure</u> Location: Pearl St. Ballroom RIGHT “East-West”
1:00 PM – 2:10 PM	Coordination Group for Meteorological Satellites (CGMS) Improving Data Access: Steps to improve user access to space weather observation data Location: “Foothills”
2:00 PM – 4:00 PM	Forecaster Discussion on Methods and Standards (by invitation only) Location: “Enchanted Mesa”
2:15 PM – 3:40 PM	International: ISES Internal Meeting (by invitation only) Location: “Foothills”

- 3:45 PM – 4:45 PM** **WMO-ISES-COSPAR Coordination Team (WICCT) / International Space Weather Coordination Forum (by invitation only)**
Location: “Foothills”
- 3:00 PM - 5:00 PM** **Student Program (for students and invited participants)**
Location: “Royal Arch”
[Student Program Cover Letters, Resumes, & CVs](#)
[Guidelines for AI Use in NSF NCAR UCAR UCP Applications](#)
[NACE 2026 Job Outlook Report](#)
- 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

NOTE: **Selected Poster Lightning Talks are incorporated into sessions throughout the week**

Tuesday, April 28 Location: Pearl St Ballroom

- 8:15 AM - 8:30 AM** **Welcome and Opening Remarks**
Howard Singer NOAA SWPC, Chair
Anne Johansen, NSF Geosciences Directorate
Joe Westlake, NASA Heliophysics
Clinton Wallace, NOAA Space Weather Prediction Center (SWPC)
- 8:30 AM - 10:00 AM** **National Resilience in Space Weather: Government and Industry Perspectives (Part 1)**
Co-Chairs: Clinton Wallace, NOAA SWPC
Elsayed Talaat, Universities Space Research Association (USRA)
- 8:30 AM - 8:35 AM** **Session Overview and Introductions**
Clinton Wallace, NOAA SWPC
- 8:35 AM - 8:45 AM** **Space Weather and Critical Infrastructure Resilience**
James Platt, National Security Council (NSC), Executive Office of the President (EOP)
- 8:45 AM - 8:55 AM** **White House Office of Science and Technology (OSTP) Policy**
Charlie Powell, OSTP
- 8:55 AM - 9:05 AM** **Reengaging the Space Weather Advisory Group: Priorities for the Next Phase**
Tammy Dickinson, Science Matters Consulting
- 9:05 AM - 9:15 AM** **NASA Heliophysics: Charting the Frontier and Serving Society**
Joe Westlake, NASA Heliophysics
- 9:15 AM - 9:25 AM** **Space Weather at the National Weather Service: Operations, Priorities, and Partnerships**
Ken Graham, NOAA NWS
- 9:25 AM - 10:00 AM** **Panel & Audience Discussion**
- 10:00 AM - 10:45 AM** **Break and Poster Session**

10:45 AM - 12:15 PM	<u>National Resilience in Space Weather: Government and Industry Perspectives (Part 2)</u> Co-Chairs: Bill Murtagh, NOAA SWPC Mangala Sharma, NSF Geosciences Directorate
10:45 AM - 10:50 AM	Session Overview and Introductions Bill Murtagh, NOAA SWPC
10:50 AM - 11:00 AM	<u>National Resilience in Space Weather: NESDIS</u> Irene Parker, NOAA NESDIS
11:00 AM - 11:10 AM	<u>Updating Space Weather Benchmarks for Critical Infrastructure</u> Pat Dandenault, Johns Hopkins University Applied Physics Laboratory (JHU/APL)
11:10 AM - 11:20 AM	<u>The Commercial Space Weather Sector Innovates Hazard Mitigation Tools for Agencies, Industry, and Consumers</u> Kent Tobiska, Space Environment Technologies
11:20 AM - 11:30 AM	<u>The National Space Weather Enterprise - The View from the Space Weather Roundtable</u> Geoff Crowley, Space Industry Consultants
11:30 AM - 11:40 AM	<u>NSF Investments in Space Weather Science, Infrastructure, and Workforce to Strengthen Resilience</u> Anne Johansen, NSF Geosciences Directorate
11:40 AM - 11:50 AM	Staff Director of the Space and Aeronautics Subcommittee Brent Blevins, U.S. House Committee on Science, Space, and Technology
11:50 AM - 12:15 PM	Panel & Audience Discussion
12:15 PM - 1:30 PM	<u>Lunch and Other Activities:</u> - SWPC Tour #1 (for those pre-registered for the tour, bus located between the Embassy Suites and Garden Inn) - Student Networking (for students and invited participants) Location: "Royal Arch"
1:30 PM - 3:00 PM	<u>Forecasting, Preparedness, and Policy: Space Weather in the Security Domain</u> Co-Chairs: Maj Ross Malugani, USAF Ian Cohen, JHU/APL
1:30 PM - 1:40 PM	Session Overview and Introductions Maj Ross Malugani, USAF Ian Cohen, JHU/APL
1:40 PM - 2:00 PM	GPS and Communications Col Andrew Frey, Commander 2nd Weather Group Bruce Fritz, Office of Naval Research (ONR)
2:00 PM - 2:20 PM	Drag and Charging Brian Walling, NOAA Office of Space Commerce (OSC) Justin Likar, JHU/APL

2:20 PM - 2:40 PM	Sensing and Attribution Lt Col McQuone, SPACECOM Tracy Copp, USSF Aleida Higginson, NASA GSFC
2:40 PM - 3:00 PM	Panel & Audience Discussion
3:00 PM - 3:45 PM	Break and Poster Session
3:45 PM - 5:30 PM	<u>Operational Impacts and Mitigation of Space Weather on Aviation Operations</u> Co-Chairs: Rondeau Flynn, Coalition of Airline Pilots Associations (CAPA) Krista Hammond, UK MET Office
3:45 PM - 3:55 PM	<u>Session Overview and Introductions</u> Rondeau Flynn, CAPA
3:55 PM - 4:05 PM	<u>Bridging Space Weather and Aviation: The UK Solar Aviation Radiation Monitoring Programme</u> Krista Hammond, UK MET Office
4:05 PM - 4:15 PM	<u>NAIRAS Model: New Aviation Radiation Capabilities, Products, and Validation</u> Christopher Mertens, NASA Langley Research Center
4:15 PM - 4:25 PM	<u>An Application for Specifying Space Weather Radiation Impacts to Aviation using Real-Time REACH data</u> Janet Green, The Aerospace Corp
4:25 PM - 4:35 PM	<u>Delta Air Lines: Safety Risk Assessment and Procedural Updates for Space Weather Hazards</u> Stephanie Klipfel, Delta Airlines (Met) Chris Schwartz, Delta Airlines (Flight Control)
4:35 PM - 4:45 PM	<u>ARDOSE: A Radiation Information Tool for Aircrews</u> Ben Hogan, Space Environment Technologies
4:45 PM - 4:55 PM	Poster Lightning Talks <u>Toward Operational Readiness: A Conceptual Framework for Real-Time Space Weather Impact Reporting and Test Capability Within the FAA</u> Michael Cook, MITRE Corporation <u>Data assimilation of Ground-based VLF Sensors for Spatially Resolved D-region HF Absorption Maps</u> James Cannon, University of Colorado Boulder <u>Upgraded Neutron Monitor-Based Alert System for Ground-Level Enhancements</u> Pierre-Simon Mangeard, University of Delaware
4:55 PM - 5:30 PM	Panel & Audience Discussion

Wednesday, April 29 Location: Pearl St Ballroom

8:15 AM - 8:30 AM [Today's Space Weather Forecast + O&A](#)
Liz Butler, NOAA SWPC

8:30 AM - 10:00 AM **Challenges in the LEO Satellite Environment (Part 1)**
Co-Chairs: Tzu-Wei Fang, NOAA SWPC
Linda Parker, USRA

8:30 AM - 8:35 AM [Session Overview and Introductions](#)
Tzu-Wei Fang, NOAA SWPC

8:35 AM - 8:50 AM [Solar Activity Forecasting at SWPC from Days to Decades](#)
Mark Miesch, CU CIRES and NOAA SWPC

8:50 AM - 9:05 AM [Thermospheric Density Nowcasting and Forecasting](#)
Ching-Chung Cheng, University of Colorado Boulder

9:05 AM - 9:20 AM [Physics and Data-Driven Probabilistic Drag Modeling for Resilient LEO Operations](#)
Piyush Mehta, West Virginia University

9:20 AM - 9:35 AM [Updates of OSC's Atmospheric Drag Validation Project](#)
David Vallado, COMSPOC

9:35 AM - 9:50 AM [NESDIS Commercial Data Program Overview and Status](#)
Marc Gasbarro, NOAA NESDIS

9:50 AM - 10:00 AM **Poster Lightning Talks**

[HASDM-Sol: a Machine-learned Model of Thermospheric Density Trained on Two Solar Cycles](#)
Alexander Lozinski, Space Environment Technologies

[Modeling SEP Transport and Geomagnetic Cutoffs in Geospace from Magnetopause to LEO](#)
Valeriy Tenishev, NASA Marshall Space Flight Center

[State uncertainty quantification of forecast errors and horizontal winds in VLEO](#)
Dhruv Jain, Kayhan Space

10:00 AM – 10:45 AM **Break and Poster Session**

10:45 AM - 12:00 PM **Challenges in the LEO Satellite Environment (Part 2)**
Co-Chairs: Tzu-Wei Fang, NOAA SWPC
Linda Parker, USRA

10:45 AM -11:00 AM [Operational Challenges from Space Weather](#)
Ryan Shepperd, Iridium

11:00 AM -11:15 AM	<u>Development of Rapid Analysis Orbit Decay Tools with Applications to the Hubble Space Telescope</u> Abram Aguilar, NESC, a.i. Solutions, Inc.
11:15 AM - 11:30 AM	<u>AFRL Initiatives in Understanding and Utilizing the LEO Environment</u> Shawn Young, Air Force Research Laboratory
11:30 AM -11:45 AM	<u>Scientific and Operational Applications of the REACH Constellation</u> Alex Boyd, The Aerospace Corporation
11:45 AM -12:00 AM	<u>Space Weather Impacts on Launch Operations</u> Joseph Minow, NASA Langley Research Center
12:00 PM - 1:30 PM	<u>Lunch and Other Activities:</u> - Student Program Lunch (for students and invited participants) Location: “Royal Arch” Organizers: Vincent Ledvina, University of Alaska Fairbanks Carina Alden, The Catholic University of America
1:30 PM - 3:00 PM	<u>Space Weather Dynamics at MEO and GEO: Impacts, Hazards, and Mitigation</u> Co-Chairs: Janet Green, Aerospace Nicole Duncan, BAE Systems Inc.
1:30 PM - 1:35 PM	Session Overview and Introductions Nicole Duncan, BAE Systems Inc.
1:35 PM - 1:45 PM	<u>Observation System Simulation Experiment (OSSE) Approach for Assessing NOAA’s Space Weather Observations from GEO</u> Irfan Azeem, NOAA Office of Space Weather Observations
1:45 PM - 1:55 PM	<u>Helio Today: Automated Space Weather Forecasting for Enhanced Orbital Resilience</u> Larisa Krista, HelioPhysics
1:55 PM - 2:05 PM	SIRE2 Capabilities to Support Natural Space Environment Anomaly Assessments and Operations: SIRE2-Archive and SIRE2-Now Jonathan Fisher, Fifth Gate Technologies
2:05 PM - 2:15 PM	<u>Industry-User Space Weather Needs for GEO and MEO Space Systems</u> Neal Nickles, BAE
2:15 PM - 2:25 PM	<u>Japanese Current and Future Plan of Space Weather Monitoring From Satellites</u> Mamoru Ishii, National Institute of Information and Communications Technology
2:25 PM - 2:35 PM	<u>Space Weather Needs for the Evolving Spacecraft Operations Domain</u> Dave Pitchford, SES Satellites
2:35 PM - 2:50 PM	Panel & Audience Discussion
2:50 PM - 3:00 PM	Poster Lightning Talks <u>Spacecraft Environment Discharges in the Geostationary Environment: Radio Signatures and Relationship to Plasma Population and Geomagnetic Indices</u>

Todd Anderson, Los Alamos National Laboratory

[C-SWIM: A Coupled Space Weather Impact Model for Satellite Fleet Vulnerability and Economic Loss Under a 1-in-100-Year Solar Energetic Particle Event](#)

Dennies Bor, George Mason University

3:00 PM - 3:45 PM

Break and Poster Session

3:45 PM - 5:15 PM

Integrating Space Weather into Emergency Planning

Co-Chairs: Shawn Dahl, NOAA SWPC

Tiana Farrant, Department of Interior (DOI) Emergency Management

3:45 PM - 3:50 PM

Session Overview and Introductions

Shawn Dahl, NOAA SWPC

3:50 PM - 4:02 PM

Helping Emergency Management be Space Weather Ready

Shawn Dahl, NOAA SWPC

4:02 PM - 4:14 PM

Space Weather Preparedness at DOI: Early Insights From a Recent TableTop Exercise

Tiana Farrant, DOI EM

4:14 PM - 4:26 PM

Space Weather an Integral Part of Mitigation Planning and Daily Preparedness in North Dakota

Eric Upton, North Dakota Emergency Management

4:26 PM - 4:38 PM

New York City EM Considerations and Planning

Marta Krawczynski, New York City Emergency Management

4:38 PM - 4:50 PM

The Storm Above: Communicating Space Weather's Earthly Impacts

Jen Carfagno, The Weather Channel

4:50 PM - 4:56 PM

Poster Lightning Talks

[Solar Shenanigans: Space Weather Event Preparedness and Practice in Aotearoa New Zealand](#)

Jonathan Hanson, Earth Sciences New Zealand

[The Role of International Partners in Ground Support for Space Weather Missions at L1](#)

David Fritz, NESDIS/SWO

4:56 PM - 5:15 PM

Panel & Audience Discussion

7:00 PM - 9:00 PM

Banquet and After-Dinner Presentation

Capturing the Storm: Space Weather Data and Aurora Photography

MaryBeth Kiczenski, Millersville University, Space Weather and Environment (SWEN), and Aurorasaurus

Introduction: Jim Spann, NOAA NESDIS

Thursday, April 30

Location: Pearl St Ballroom

8:15 AM - 9:45 AM	<u>Space Exploration: Enabling Safe Human & Robotic Exploration of the Moon</u> Co-Chairs: Jinni Meehan, Lockheed Martin Sabrina Savage, NASA
8:15 AM - 8:25 AM	<u>Session Overview and Introductions</u> Jinni Meehan, Lockheed Martin Sabrina Savage, NASA
8:25 AM - 8:30 AM	<u>Orion Spacecraft</u> Rob Chambers, Lockheed Martin
8:30 AM - 8:35 AM	<u>Space Radiation Analysis Group Artemis II Support</u> Steve Johnson, NASA SRAG
8:35 AM - 8:40 AM	<u>Space Weather Prediction Center Artemis II Analyst Activities</u> Monty Spencer, NOAA SWPC
8:40 AM - 8:45 AM	<u>Commercial Lunar Payload Services (CLPS) Program</u> Don Kuettel, Intuitive Machines
8:45 AM - 8:50 AM	<u>Artemis Deployed Instrument: DUSTER</u> David Malaspina, CU-LASP
8:50 AM - 8:55 AM	<u>Artemis Mission Science Objectives</u> Noah Petro, NASA GSFC
8:55 AM - 9:35 AM	Panel & Audience Discussion
9:35AM - 9:45 AM	Poster Lightning Talks <u>MissionDPT: Simulation and forecasting of radiation doses and health risks for space exploration missions</u> Shaowen Hu, KBR
9:45 AM - 10:30 AM	Break and Poster Session
10:30 AM - 11:45 PM	<u>Space Exploration: Enabling Safe Human & Robotic Exploration of Mars and Beyond</u> Co-Chairs: Gina DiBraccio, NASA Yari Collado-Vega, NOAA NESDIS
10:30 AM - 10:37 AM	Session Overview and Introductions Gina DiBraccio, NASA Yari Collado-Vega, NOAA NESDIS
10:37 AM - 10:47 AM	<u>An Overview of the Mars Space Environment and Space Weather Effects</u> Dave Brain, CU Boulder
10:47 AM - 10:54 AM	<u>WSA Modeling Support for the Safe Exploration of Cislunar, Mars, and Heliosphere</u> Nick Arge, NASA GSFC

- 10:54 AM - 11:01 AM** [Preparing for Earth-Independent Operations with the Mars Space Weather Dashboard](#)
Phil Chamberlin, CU Boulder
- 11:01 AM - 11:08 AM** [Real-time support for NASA missions at Mars by NASA GSFC's Moon to Mars Space Weather Analysis Office](#)
Mary Aronne, NASA GSFC
- 11:08 AM - 11:15 AM** [ESCAPADEs as Sentinels at Mars: What they Will Do and Could Do to Support Space Weather Monitoring and Prediction](#)
Rob Lillis, University of California, Berkeley
- 11:15 AM - 11:35 AM** **Panel & Audience Discussion**
- 11:35 AM - 11:45 AM** **Poster Lightning Talks**
- [Solar Spectral Irradiance \(SSI\) from the COronal DEnsity and Temperature \(CODET\) model: applications for studying Earth and Mars atmospheres](#)
Jenny Rodríguez-Gómez, The Catholic University of America and NASA GSFC
- [Analyzing MSL/RAD Measurements to Understand the Space Weather at Mars](#)
Bent Ehresmann, Southwest Research Institute
- [Observations of E>13 MeV Solar Proton Events at Mars During Solar Cycles 24 & 25](#)
Christina Lee, University of California, Berkeley
- 11:45 AM - 1:15 PM** **Lunch and Other Activities:**
- **SWPC Tour #2** (for those pre-registered for the tour, bus located between the Embassy Suites and Garden Inn)
 - **Bulk Electric System Product Transformation Meeting** (by invitation only)
Location: "Foothills"
 - **Coordination Group for Meteorological Satellites (CGMS)/ISES Coordination Meeting** (by invitation only)
Location: "Enchanted Mesa"
 - **Student Networking** (for students and invited participants)
Location: "Royal Arch"
- 1:15 PM - 2:45 PM** **Managing Space Weather Risks to the Bulk Electric System (Part 1)**
Co-Chairs: Bob Arritt, Electric Power Research Institute (EPRI)
Josh Rigler, United States Geological Survey (USGS)
- 1:15 PM - 1:20 PM** [Session Overview and Introductions](#)
Bob Arritt, EPRI
- 1:20 PM - 1:30 PM** [GMD from the NERC Perspective, Regulation and Observations from Recent Storms](#)
Mark Olson, North American Electric Reliability Corporation (NERC)
- 1:30 PM - 1:40 PM** [Transmission Owner Experience with GIC Monitoring & Blocking](#)
Chris Colson, Western Area Power Administration (WAPA)

1:40 PM - 1:50 PM	<u>GIC Impacts and Operational Mitigation in Alberta: Insights from the January 2026 Geomagnetic Storm</u> Hannah Parry, University of Alberta
1:50 PM - 2:00 PM	<u>PowerWorld and the Integration of Harmonic Analysis</u> Tom Overbye, Texas A&M (PowerWorld)
2:00 PM - 2:05 PM	<u>New GMD Modeling Software Tool</u> Bob Arritt, Electric Power Research Institute (EPRI)
2:05 PM - 2:15 PM	<u>Integrating the GMD tools with the North American Energy Resilience Model (NAERM) modeling and analysis system</u> Michael Brown, Pacific Northwest National Laboratory (PNNL)
2:15 PM - 2:25 PM	Poster Lightning Talks <u>Factors controlling large amplitude geomagnetically induced currents and voltages: US power grid and submarine cables</u> Michael Hartinger, Space Science Institute <u>Climatological Survey of Geomagnetically Induced Current Waveforms near Virginia, USA</u> Bhagyashree Waghule, University of Colorado Boulder
2:25 PM - 2:45 PM	Panel & Audience Discussion
2:45 PM - 3:30 PM	Break and Poster Session
3:30 PM - 4:30 PM	<u>Managing Space Weather Risks to the Bulk Electric System (Part 2)</u> Co-Chairs: Bob Arritt, EPRI Josh Rigler, USGS
3:30 PM - 3:35 PM	Session Overview and Introductions Josh Rigler, USGS
3:35 PM - 3:45 PM	<u>Aotearoa New Zealand, Continuing R2O2R Space Weather Grid Impacts</u> Chris Taylor, Transpower NZ Daniel MacManus, University of Otago, NZ
3:45 PM - 3:55 PM	<u>Geomagnetic Hazard Investigations for Canadian Northern Power Networks</u> David Boteler, Natural Resources Canada
3:55 PM - 4:05 PM	<u>The NOAA-USGS Geoelectric Model: Supporting Resilience in the Electric Power Sector against Space Weather</u> Jordan Guerra, CU CIRES and NOAA SWPC
4:05 PM - 4:15 PM	<u>Data Density, Polarization, and Distortion: Magnetotelluric data collection in the Eastern U.S. to support more realistic Surface Electric Field Models</u> Paul Bedrosian, U.S. Geological Survey (USGS)
4:15 PM - 4:30 PM	Panel & Audience Discussion
4:30 PM - 5:30 PM	<u>Special Presentations: Advancing Sun - Earth Science and Space Weather Prediction to Safeguard the Bulk Electric System and National Infrastructure</u>

Co-Chairs: Jim Spann, NOAA NESDIS
Michele Cash, NASA

- 4:30 PM - 4:35 PM** **Session Overview and Introductions**
Jim Spann, NOAA NESDIS
Michele Cash, NASA
- 4:35 PM - 4:45 PM** [Imaging Space Weather Across the Solar System with PUNCH](#)
Craig DeForest; Southwest Research Institute
- 4:45 PM - 4:55 PM** [Coronal images and solar wind measurements from the SOLAR-1 mission at L1](#)
Dimitrios Vassiliadis; NOAA Space Weather Observations
- 4:55 PM - 5:05 PM** [Space Weather Science to Enhance Forecasting with the IMAP Active Link for Real-Time \(I-ALiRT\) System](#)
Christina Lee; University of California, Berkeley
- 5:05 PM - 5:15 PM** [A New Perspective on Space Weather: Forecasting from Deep Space with Vigil](#)
Matthew West; European Space Agency
- 5:15 PM - 5:30 PM** **Panel & Audience Discussion**

Friday, May 1 Location: Pearl St Ballroom

- 8:30 AM - 10:00 AM** **Building the Space Weather Workforce of the Future**
Co-Chairs: Mike Wiltberger, NCAR
Rich Clark, Millersville University
Sepi Yalda, Millersville University
- 8:30 AM - 8:35 AM** **Session Overview and Introductions**
Rich Clark, Millersville University
- 8:35 AM - 8:45 AM** [Training the Next-Gen Space Weather Workforce for Public Engagement](#)
Tamitha Skov, Space Weather Woman
- 8:45 AM - 8:55 AM** [Training the Next Generation of Space Weather Modelers](#)
Dan Welling, University of Michigan
- 8:55 AM - 9:05 AM** [From Space Weather Forecasting to Decision Support - Preparing the Practitioners](#)
Robert Steenburgh, NOAA SWPC
- 9:05 AM - 9:15 AM** [Building an AI-Enabled Space Weather Workforce](#)
Barbara Thompson, NASA GSFC
- 9:15 AM - 9:25 AM** [Lessons from the SOARS REU Program](#)
Marrisa Vara, NCAR
- 9:25 AM - 9:35 AM** **Poster Lightning Talks**
- [Student internship opportunities at NOAA's Office of Space Weather Observations \(SWO\)](#)

Nicholas Zaremba, NOAA Office of Space Weather Observations

[Measuring Space Weather Literacy: Development and Validation of a Space Weather Concept Inventory](#)

Anthony Williams, Auburn University

[Bridging Space Weather Operations and Local News](#)

Tanya Melnik, Millersville University of Pennsylvania

- 9:35 AM - 10:00 AM Panel & Audience Discussion**
- 10:00 AM - 10:30 AM Break**
- 10:30 AM - 11:45 AM Monitoring and Predicting Space Weather Effects on Satellite Navigation**
Co-Chairs: Jade Morton, CU
Seebany Datta-Barua, Illinois Institute of Technology
- 10:30 AM - 10:35 AM Session Overview and Introductions**
Jade Morton, CU
Seebany Datta-Barua, Illinois Institute of Technology
- 10:35 AM - 10:45 AM [Severe Mid-Latitude GPS Scintillation and Position Errors During the Recent Major Storms](#)**
Waqar Younas, Boston University
- 10:45 AM - 10:55 AM [25 years of Ionospheric Modeling](#)**
Eric Altshuler, Sequoia Research Corp
- 10:55 AM - 11:05 AM [Forecasting GNSS Scintillations at Low, Mid- and High Latitudes](#)**
Keith Groves, Boston College /Air Force Research Lab
- 11:05 AM - 11:15 AM [WAAS Ionospheric Integrity Analysis](#)**
Rhiannon Griffin Sanchez, FAA
- 11:15 AM - 11:25 AM Poster Lightning Talks**
- [Longitudinal variation of ionospheric irregularities and response of the ionosphere during 10-13 May and 10-13 October 2024 geomagnetic storms](#)
Valence Habyarimana, University of Michigan
- [Analysis of Positioning Error Impacts due to Large-Scale Spatial Gradients in Ionospheric Density](#)
Brett McCuen, The Aerospace Corporation
- 11:25 AM - 11:45 AM Panel & Audience Discussion**
- 11:45 AM - 12:00 PM [Closing Remarks](#)**
Howard Singer, NOAA SWPC

Afternoon Side Meetings:

1:00 PM - 4:00 PM

[International Space Weather Coordination Forum](#)

Location: “Royal Arch”

Note: see bottom of the linked page for remote participation

1:00 PM - 3:00 PM

ngGONG Discussion (by invitation only)

Location: “Enchanted Mesa”