

2024 Space Weather Workshop Agenda

Times in MDT

Monday, April 15 - Pre-Workshop Events	
8:00 AM – 10:00 AM	User Readiness for Space Weather Data from NOAA Program of Record-2025 Missions Location: Pearl St. Ballroom LEFT "Walnut" and CENTER "Mall"
10:00 AM - 12:00 PM	Coordination Group for Meteorological Satellites (CGMS) Data Access Location: Pearl St. Ballroom LEFT "Walnut" and CENTER "Mall"
10:00 AM - 12:00 PM	DoD Space Weather Enterprise (by invitation only) Location: Pearl St. Ballroom RIGHT "East-West"
1:00 PM - 5:00 PM	NOAA Space Weather Scales Location: Pearl St. Ballroom
3:00 PM - 5:00 PM	Student Program (for students and invited participants) Location: "Royal Arch" Meeting Room Organizers: Vincent Ledvina (University of Alaska) Bhagyashree Waghule (University of Colorado)
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 and is on a first come/first serve basis.

Tuesday, April 16	Location: Pearl St. Ballroom
8:30 AM - 8:40 AM	Opening Remarks and Welcome Bill Murtagh, NOAA SWPC
8:40 AM - 9:00 AM	Space Weather Events and Impacts - Year in Review Rachel Broemmelsiek, USAF 557th Weather Wing, 2d Weather Squadron (557 WW/2 WS) Shawn Dahl, NOAA Space Weather Prediction Center (SWPC) Maj Benjamin Pearson, USAF 557 WW/2 WS
9:00 AM - 9:35 AM	National Policy Initiatives Co-Chairs: Genene Fisher, NASA HQ Bill Murtagh, NOAA SWPC
9:00 AM - 9:05 AM	Overview and Introductions Bill Murtagh, NOAA SWPC
9:05 AM - 9:15 AM	Perspective from House Science Committee Brent Blevins, U.S. House Committee on Science, Space, and Technology
9:15 AM - 9:25 AM	Perspective from the Office of Science and Technology Policy (OSTP) Jinni Meehan, OSTP
9:25 AM - 9:35 AM	Panel & Audience Discussion
9:35 AM - 9:50 AM	Special Presentation: UK Science Policy Sarah Beardsley, UK Science and Technologies Facilities Council
9:50 AM - 10:45 AM	Break and Poster Session: Solar and Interplanetary Research and Applications; and Aviation Radiation Research and Applications
10:45 AM - 11:45 AM	PROSWIFT User Survey - Space Weather Advisory Group Co-Chairs: Tammy Dickinson, Science Matters Consulting Amy Macpherson, NWS HQ
10:45 AM - 10:55 AM	Overview of PROSWIFT User-Survey Initiative Tammy Dickinson, Science Matters Consulting
10:55 AM - 11:00 AM	Emergency Management Seth Jonas, Lockheed Martin
11:00 AM - 11:05 AM	Space Traffic Management/Coordination Delores Knipp, University of Colorado, Boulder
11:05 AM - 11:10 AM	Electric Power Mark Olson, North American Electric Reliability Corporation (NERC)

11:10 AM - 11:20 AM Human Spaceflight and Aviation

Kent Tobiska, Space Environment Technologies

11:20 AM - 11:25 AM Research

Scott McIntosh, National Center for Atmospheric Research (NCAR)

11:25 AM - 11:45 AM Panel & Audience Discussion

11:45 AM - 12:15 PM Poster Lightning Talks for Tuesday Posters: Solar and Interplanetary

Research and Applications; and Aviation Radiation Research and Applications

Chair: Eric Adamson, NOAA SWPC

Far-Side Active Regions Based on Helioseismic and EUV Measurements:

Toward a Global Index

Amr Hamada, National Solar Observatory

Identifying solar flare precursors in a forest of EUV signatures

Larisza Krista, CU CIRES/NOAA NCEI

QuickPUNCH: Observations for Space Weather Operations and Research

Daniel Seaton, Southwest Research Institute

Examining the Accuracy of The OMNI Data in Representing ICME

Observations Near Earth and the Effect on Global Modeling

Epsen Fredrick, University of Texas at Arlington

Towards Predictive Uncertainty Quantification in Space Weather Simulations

Through Surrogate Models for Dynamical Systems

Aniket Jivani, University of Michigan

Deep Learning-Based Analysis of Near-Real-time single-viewpoint

Coronagraph Images using Neural Networks.

Harshita Gandhi, Aberystwyth University

Statistical Relationships Between Solar Wind Parameters: Implications for

Space Weather Forecasts

Heather Elliott, Southwest Research Institute

Assessment of Vulnerability of U.S. National Airspace System to Space

Weather

Michael Cook, The MITRE Corporation

12:15 PM - 1:30 PM Lunch

12:30 PM - 2:15 PM SWPC Tour (for those pre-registered for the tour)

1:30 PM - 2:30 PM Building Resilience to Geomagnetic Storms in the U.S. and Canadian Power

Grid

Co-Chairs: Jenn Gannon, Computational Physics, Inc. Jordan Guerra, CU CIRES/NOAA SWPC

1:30 PM - 1:35 PM Overview and Introductions

Jordan Guerra, CU CIRES/NOAA SWPC

1:35 PM - 1:43 PM Recent Developments at DOE to address GMD

Joe Blankenburg, Department of Energy

1:43 PM - 1:51 PM	Completion of the MT Survey and its Contribution to Geoelectric Field Calculations Adam Schultz, Oregon State University
1:51 PM - 1:59 PM	Understanding the Impact of Space Weather on the Power Grid with Geoelectric Field Modeling Christopher Balch, CU CIRES/NOAA SWPC
1:59 PM - 2:07 PM	UK Government & Industry Activities to Support Electricity Resilience Abigail Clark, Department for Energy Security and Net Zero
2:07 PM - 2:15 PM	NERC Geomagnetically Induced Currents Database Donna Pratt, North American Electric Reliability Corporation (NERC)
2:15 PM - 2:30 PM	Q&A
2:30 PM - 2:45 PM	Special Presentation: Lessons from Department-Level Exercise at USDA Dionne Mendoza, U.S. Department of Agriculture (USDA)
2:45 PM - 3:45 PM	Break and Poster Session: Solar and Interplanetary Research and Applications; and Aviation Radiation Research and Applications
3:45 PM - 5:00 PM	Space Weather Services in Support of Aviation Operations Co-Chairs: Sam Carlson, Federal Aviation Administration (FAA) Brent Gordon, NOAA SWPC
3:45 PM - 3:50 PM	Overview and Introductions Brent Gordon, NOAA SWPC
3:50 PM - 3:58 PM	Nowcast of Aerospace Ionizing RAdiation System (NAIRAS) Model Chris Mertens, NASA
3:58 PM - 4:06 PM	Using REACH data in Support of Aviation Kerry Lee, The Aerospace Corporation
4:06 PM - 4:14 PM	Aeronautical Regional Geospatial Observer System (ARGOS) Stratospheric Drone Flight Test for Use in Aviation Radiation Measurements Justin Bailey, Space Environment Technologies
4:14 PM - 4:22 PM	Space Weather - Delta Air Lines Perspective Stephanie Klipfel, Delta Air Lines Chris Schwartz, Delta Air Lines
4:22 PM - 4:30 PM	Space Weather: Meeting the Needs for Global Aviation Services Rondeau Flynn, Allied Pilots Association
4:30 PM - 5:00 PM	Q&A

5:00 PM - 5:30 PM Poster Lightning Talks for Wednesday Posters: Ionosphere and Thermosphere Research and Applications

Chair: Simon Machin, UK Meteorological Office

AI-Based Ionospheric Scintillation Impact Prediction

Ryan Kelly, Orion Space Solutions

Deep Learning-Based Solar Irradiance Prediction Model using the FISM2 Dataset During the Solar Flare Events

Jeong-Heon Kim, Korea Astronomy and Space Science Institute

Space Weather Ionospheric Network Canada

Chris Watson, University of New Brunswick

Geospace Dynamics Constellation: The Mission We Need for the New Era of Access to LEO

Katherine Garcia-Sage, NASA Goddard Space Flight Center

Leveraging Data Assimilative Models for Enhanced Satellite Drag Predictions Martin Pilinski, University of Colorado, Boulder

Assessing the Relationship Between the Quasi-biennial Oscillation and D-region Electron Density

Natalie Wirth, Air Force Institute of Technology

Agile Collaboration: Citizen Science as a Transdisciplinary Approach to Heliophysics

Vincent Ledvina, University of Alaska

Wednesday, April 17	Location: Pearl St. Ballroom
8:15 AM - 8:30 AM	Today's Space Weather Forecast + Q&A Shawn Dahl, NOAA SWPC Rachel Broemmelsiek, USAF 557th Weather Wing, 2d Weather Squadron
8:30 AM - 10:05 AM	(557 WW/2 WS) The 2023 Space Weather Implementation Plan - Path to Execution
6:30 AM - 10:03 AM	Co-Chairs: Clinton Wallace, NOAA SWPC LT Bryan Brasher, NOAA Corps/SWPC
8:30 AM - 8:35 AM	Overview and Introductions Clinton Wallace, NOAA SWPC
8:35 AM - 8:45 AM	Building a Space Weather Ready Nation Ken Graham, Director, NOAA National Weather Service (NWS)
8:45 AM - 8:55 AM	Space Weather Observations in Support of an Operational Space Weather Capability Elsayed Talaat, Director Office of Space Weather Observations, NOAA National Environmental Satellite, Data, and Information Service (NESDIS)
8:55 AM - 9:05 AM	National Aeronautics and Space Administration (NASA) Peg Luce, Deputy Director, NASA Heliophysics Division, NASA HQ

9:05 AM - 9:15 AM	NSF Support for Space Weather Research, Observations, and Workforce Development Anne Johansen, Director, Division of Atmospheric and Geospace Sciences, NSF Mangala Sharma, Geospace Cluster Coordinator, Division of Atmospheric and Geospace Sciences, NSF
9:15 AM - 9:25 AM	2023 Space Weather Implementation – USSF's Path to ExecutionCol Marc Brock, Director of Combat Power, HQ Space Operations Command, U.S. Space Force (USSF)
9:25 AM - 9:35 AM	The Role of the US Geological Survey in Space Weather Monitoring and Hazard Characterization Gavin Hayes, Senior Science Advisor for Earthquake and Geologic Hazards, USGS
9:35 AM - 9:45 AM	Implementation through the Commercial Marketplace Jenn Gannon, Vice President of R&D, Computational Physics, Inc.
9:45 AM - 10:05 AM	Q&A
10:05 AM - 10:55 AM	Break and Poster Session: Ionosphere and Thermosphere Research and Applications
10:55 AM - 12:00 PM	Improving Space Weather Services for Satellite Operations Co-chairs: Jennifer Benson, USAF 557th Weather Wing, 2d Weather Squadron (557 WW/2 WS) Janet Green, Space Hazard Applications
10:55 AM - 10:58 AM	Overview and Introductions Jennifer Benson, USAF 557th Weather Wing, 2d Weather Squadron (557 WW/2 WS)
10:58 AM - 11:06 AM	Recap of the 2023 Satellite Environment Testbed Exercise Tzu-Wei Fang, NOAA SWPC
11:06 AM - 11:14 AM	What is the Space Information Sharing and Analysis Center (Space ISAC)? Hector Falcon, Space Information Sharing and Analysis Center (Space ISAC)
11:14 AM - 11:22 AM	Amazon Project Kuiper Marco Concha, Amazon Inkwan Park, Amazon
11:22 AM - 11:30 AM	Maxar On-Orbit Operations and Future Needs Catherine Keys, Maxar Space Systems
11:30 AM - 11:38 AM	The Spacecraft Anomaly Resolution Knowledgebase (SPARK) and Machine Intelligence for Space Weather (MINTS) Alec Engell, NextGEN Federal Systems
11:38 AM - 11:46 AM	Thermospheric Forecasting for LEO Satellites Ben McCrossan, Ensemble

11:46 AM - 12:00 PM	Q&A
12:00 PM - 1:30 PM	Lunch and Other Activities: 18th Annual NOAA-ACSWA Summit Meeting- invitation only Location: "Baseline" Boardroom
	Student Speed Mentoring Lunch (for students and invited participants) Location: "Royal Arch" Meeting Room Organizers: Vincent Ledvina (University of Alaska) Bhagyashree Waghule (University of Colorado)
1:30 PM - 2:30 PM	Space Weather Support for Human Habitation on the Moon and Beyond Co-Chairs: Eddie Semones, NASA Space Radiation Analysis Group (SRAG) Robert Steenburgh, NOAA SWPC
1:30 PM - 1:35 PM	Overview and Introductions Robert Steenburgh, NOAA SWPC
1:35 PM - 1:43 PM	NOAA SWPC Preparations for Artemis Hazel Bain, CU CIRES/NOAA SWPC
1:43 PM - 1:51 PM	Space Radiation Analysis Group - Flight Rules for Operations Steve Johnson, NASA Space Radiation Analysis Group (SRAG)
1:51 PM - 1:59 PM	Space Weather Support for Human Exploration: NASA Moon-to-Mars (M2M) Carina Alden, NASA Goddard Space Flight Center, Moon-to-Mars Space Weather Analysis Office
1:59 PM - 2:07 PM	Analyzing Space Weather at Mars with MAVEN Gina DiBraccio, NASA Goddard Space Flight Center, Heliophysics Science Division
2:07 PM - 2:15 PM	Space Weather Opportunities and Needs in NASA's Moon to Mars Exploration Architecture Jamie Favors, NASA HQ, Heliophysics Division
2:15 PM - 2:30 PM	Q&A
2:30 PM - 3:20 PM	Break and Poster Session: Ionosphere and Thermosphere Research and Applications
3:20 PM - 4:05 PM	Observing and Modeling the Ionosphere: Supporting Communications and Navigation Co-Chairs: Tim Fuller-Rowell, CU CIRES/NOAA SWPC Jim Spann, NOAA NESDIS
3:20 PM - 3:25 PM	Overview and Introductions Tim Fuller-Rowell, CU CIRES/NOAA SWPC

3:25 PM - 3:33 PM	New GDGPS Products for High-Precision Real-Time GNSS Applications to Support Public and Scientific Users Attila Komjathy, NASA Jet Propulsion Laboratory
3:33 PM - 3:41 PM	Ionosphere TEC and Scintillation Observations Using Spaceborne GNSS Reflectometry Brian Breitsch, University Colorado, Boulder
3:41 PM - 3:49 PM	Using GNSS receivers on SmallSat Platforms for Ionospheric Specification Rebecca Bishop, The Aerospace Corporation
3:49 PM - 4:05 PM	Q&A
4:05 PM - 4:45 PM	Space Weather Workforce Development Co-Chairs: Mark Miesch, CU CIRES/NOAA SWPC Dan Welling, University of Michigan
4:05 PM - 4:10 PM	Overview and Introductions Dan Welling, University of Michigan
4:10 PM - 4:18 PM	GlobalMindED - Creating a Capable, Diverse Talent Pipeline Brian Ysasaga, Lockheed Martin and GlobalMindED
4:18 PM - 4:26 PM	Space Weather for a Sustainable Future - Thoughts of a UNOOSA Space4Women Mentor Alessandra Pacini, NOAA National Centers for Environmental Information (NCEI)
4:26 PM - 4:34 PM	Toward Space Weather Curriculum for High School Physics: Building a Three-Dimensional Unit Storyline aligned with Next-Generation Science Standards Erin Furtak, University of Colorado, Boulder
4:34 PM - 4:45 PM	Q&A
4:45 PM - 5:00 PM	Special Presentation: Space Weather - Perspective of the Department of Homeland Security Mona Harrington, Assistant Director for the National Risk Management Center (NRMC)
5:00 PM - 5:30 PM	Poster Lightning Talks for Thursday Posters: Geospace/Magnetosphere Research and Applications; Space Weather Policy and General Space Weather Contributions Chair: Aspen Davis, CU CIRES/NCEI
	Estimating the Impact of the Magnetometer Network on the SWPC Geoelectric Field Model Jordan Guerra, CU CIRES/NOAA SWPC Revamping Models of Energetic Electron Precipitation Based on Realistic NOAA/POES Response Functions Weichao Tu, West Virginia University

	Global Geomagnetic Perturbation Forecasting with Quantified Uncertainty Using Deep Gaussian Process Hongfan Chen, University of Michigan Multi-model Ensemble Forecasts of Ground Magnetic Perturbations Kathryn Wilbanks, University of Michigan Towards An Australian Centre of Excellence in Space Weather Iver Cairns, University of Sydney I-ALiRT System for Forecasting Space Weather Laura Sandoval, Laboratory for Atmospheric and Space Physics Automatically Labelled EUV and X-Ray Incident Solarflare Catalog Jorge Padial, Vanderbilt University
7:00 PM - 9:00 PM	Banquet and After-dinner Presentation: Human Space Exploration & Space Weather Effects Speaker: Tonya Ladwig, Vice President, Human Space Exploration and Orion Program Manager, Lockheed Martin Space
Thursday, April 18	Location: Pearl St. Ballroom
8:30 AM - 9:45 AM	Centers Advancing Research to Operations Co-Chairs: Michele Cash, NOAA SWPC Genene Fisher, NASA HQ
8:30 AM - 8:35 AM	Overview and Introductions Genene Fisher, NASA HQ
8:35 AM - 8:45 AM	CLEAR: Center for All-Clear SEP Forecast Lulu Zhao, University of Michigan
8:45 AM - 8:55 AM	Space Weather Research and Technology Applications (SPARTA) Center of Excellence Keith Groves, Boston College
8:55 AM - 9:05 AM	Space Weather Operational Readiness Development (SWORD) Center Thomas Berger, University of Colorado, Boulder
9:05 AM - 9:15 AM	Center of Excellence for Advanced Forecasting of Drag for Enhanced, Sustainable, and Conscientious Space Operations Piyush Mehta, West Virginia University
9:15 AM - 9:25 AM	Center for Geospace Storms Mike Wiltberger, National Center for Atmospheric Research, High Altitude Observatory
9:25 AM - 9:45 AM	Q&A
9:45 AM - 10:45 AM	Break and Poster Session: Geospace/Magnetosphere Research and Applications; Space Weather Policy and General Space Weather Contributions

10:45 AM - 11:00 AM	Special Presentation: Upcoming Space Weather Tabletop Exercise at APL Ian Cohen, Johns Hopkins University Applied Physics Laboratory (APL)
11:00 AM - 12:10 PM	Space Weather Research to Operations: NSF-NASA Space Weather with Quantified Uncertainties (SWQU) Co-Chairs: Jamie Favors, NASA HQ Mangala Sharma, NSF
11:00 AM - 11:05 AM	Overview and Introductions Mangala Sharma, NSF
11:05 AM - 11:15 AM	Improving Space Weather Predictions with Data-Driven Models of the Solar Atmosphere and Inner Heliosphere Nikolai Pogorelov, University of Alabama in Huntsville
11:15 AM - 11:25 AM	NextGen Space Weather Modeling Framework Using Data, Physics and Uncertainty Quantification Xun Huan, University of Michigan
11:25 AM - 11:35 AM	A Flexible Community-based Upper Atmosphere Ensemble Prediction System Aaron Ridley, University of Michigan
11:35 AM - 11:45 AM	Forecasting Small-Scale Plasma Structures in the Earth's Ionosphere- Thermosphere System Tim Fuller-Rowell, CU CIRES/NOAA SWPC
11:45 AM - 11:55 AM	Ensemble Learning for Accurate and Reliable Uncertainty Quantification Rebecca Morrison, University of Colorado, Boulder
11:55 AM - 12:10 PM	Q&A
12:10 PM - 1:30 PM	Lunch
12:30 PM - 2:15 PM	SWPC Tour (for those pre-registered for the tour)
1:30 PM - 2:30 PM	Space Weather: New and Future Observations and Data Access to Advance Understanding and Forecasting Co-Chairs: Carrie Black, NSF Erin Lynch, NOAA NESDIS
1:30 PM - 1:35 PM	Overview and Introductions Erin Lynch, NOAA NESDIS
1:35 PM - 1:43 PM	GONG and ngGONG Status Alexei Pevtsov, National Solar Observatory
1:43 PM - 1:51 PM	I-ALiRT (IMAP Active Link for Real-Time) David McComas, Princeton University

1:51 PM - 1:59 PM	Owens Valley Radio Observatory Long Wavelength Array (OVRO-LWA) and the 14 December Radio Event Dale Gary, New Jersey Institute of Technology
1:59 PM - 2:08 PM	Overview of NOAA Space Weather Products at the NCEI Laurel Rachmeler, NOAA National Centers for Environmental Information (NCEI)
2:08 PM - 2:16 PM	Future Solar Magnetograph Observations from Space Neal Hurlburt, Lockheed Martin
2:16 PM - 2:30 PM	Q&A
2:30 PM - 3:30 PM	Break and Poster Session: Geospace/Magnetosphere Research and Applications; Space Weather Policy and General Space Weather Contributions
3:30 PM - 4:30 PM	Advances in Space Weather Modeling, Observations and Services - I Co-Chairs: Maj Austin Gibbons, USAF/NOAA SWPC Howard Singer, NOAA SWPC
3:30 PM - 3:35 PM	Overview and Introductions Howard Singer, NOAA SWPC
3:35 PM - 3:43 PM	The Community Coordinated Modeling Center Role in Advancing the R2O Pipeline Masha Kuznetsova, NASA
3:43 PM - 3:51 PM	Space Weather Support for the James Webb Space Telescope Launch Joseph Minow, NASA
3:51 PM - 3:59 PM	SWIMMR Results Ian McCrea, UK Science and Technologies Facilities Council
3:59 PM - 4:07 PM	Space Weather Advances within ESA's Space Safety Programme Alexi Glover, European Space Agency (ESA)
4:07 PM - 4:15 PM	Korean Space Weather Center (KSWC) Kichang Yoon, KSWC
4:15 PM - 4:30 PM	Q&A
4:30 PM - 5:30 PM	Advances in Space Weather Modeling, Observations and Services - II Co-Chairs: Janet Barzilla, Leidos/NASA Space Radiation Analysis Group Charlotte Martinkus, CU CIRES/SWPC
4:30 PM - 4:35 PM	Overview and Introductions Janet Barzilla, Leidos/NASA Space Radiation Analysis Group
4:35 PM - 4:45 PM	Global High-Resolution MHD Simulations of Interplanetary CMEs and their Geoeffective Properties Elena Provornikova, Johns Hopkins University Applied Physics Laboratory

4:45 PM - 4:55 PM	Creating an SEP Forecast for Cislunar Space Wally Lang, Ensemble
4:55 PM - 5:05 PM	Space Charging Environment in Cislunar Space and Impacts to Gateway Linda Parker, Space Weather Solutions
5:05 PM - 5:15 PM	Solar Cycle of Radiation Measurements on the Surface of Mars Don Hassler, Southwest Research Institute
5:15 PM - 5:30 PM	Q&A
Friday, April 19	Location: Pearl St. Ballroom
8:30 AM - 10:00 AM	Space Weather Innovation Projects Co-Chairs: Irfan Azeem, NOAA NESDIS Nai-Yu Wang, NOAA NESDIS
8:30 AM - 8:35 AM	Overview and Introductions Nai-Yu Wang, NOAA NESDIS
8:35 AM - 8:45 AM	TRITON: Tiny Remote-sensing Instrument for the Thermospheric Oxygen and Nitrogen Bruce Fritz, U.S. Naval Research Laboratory
8:45 AM - 8:55 AM	Using Commercial Satellite Constellation Data to Drive Thermospheric Density Forecast Capabilities Eric Sutton, University of Colorado Space Weather Technology, Research, and Education Center (SWxTREC)
8:55 AM - 9:05 AM	Solar Sail Fabrication for Solar Cruiser Project Pat Mulligan, The MITRE Corporation
9:05 AM - 9:15 AM	Compact Vector Helium magnetometer (CVHM) Development Paul Loto'aniu, CU CIRES/NOAA NCEI
9:15 AM - 9:25 AM	AI, Data and Their Application to SW Forecasting Madhulika Guhathakurta, NASA HQ
9:25 AM - 9:35 AM	Space Weather Array Prompt Experiment (SWAP-E) Cubesat Constellation Hank Voss, NearSpace Launch, Inc.
9:35 AM - 10:00 AM	Q&A
10:00 AM - 10:20 AM	Break

10:20 AM - 10:50 AM	Induced Current Susceptibility and Resilience Co-Chairs: Mike Hartinger, Space Science Institute Bhagyashree Waghule, University of Colorado, SWx TREC
10:20 AM - 10:23 AM	Overview and Introductions Bhagyashree Waghule, University of Colorado, SWx TREC
10:23 AM - 10:31 AM	Geomagnetic Induction in Submarine Cables David Boteler, Natural Resources Canada
10:31 AM - 10:39 AM	Space Weather Modeling for the Solar Tsunamis Project Pauline Dredger, University of Michigan
10:39 AM - 10:47 AM	Mapping Magnetic Superstorms Jeffrey Love, U.S. Geological Survey (USGS)
10:47 AM - 10:55 AM	Q&A
10:55 AM - 11:50 AM	Citizens & Scientists: Tackling Space Weather Together Co-Chairs: Mike Cook, The MITRE Corporation Vincent Ledvina, University of Alaska, Fairbanks
10:50 AM - 10:58 AM	Overview and Introductions Mike Cook, The MITRE Corporation
10:58 AM - 11:08 AM	Aurora Apps: The Good, The Bad, and The Ugly Tanya Melnik, Upper Midwest Aurora Chasers
11:08 AM - 11:18 AM	Communicating Space Weather to the Non-Expert and the Public Tamitha Skov, Millersville University
11:18 AM - 11:28 AM	Innovative solutions to meet the space weather challenge: EZIE, EZIE-Mag, SuperMAG Jesper Gjerloev, Johns Hopkins University Applied Physics Laboratory
11:28 AM - 11:38 AM	Special Presentation - Solar Cycle Prediction Mark Miesch, CU CIRES/NOAA SWPC
11:38 AM - 11:50 AM	Q&A
	Meeting Conclusion
11:50 AM - 12:00 PM	Closing Remarks Howard Singer, NOAA SWPC