

Space Weather Roundtable

February 5-6, 2025

Draft Public Agenda

Hybrid Meeting

In Person at Keck Center Building, [500 Fifth Street](#), NW, Washington, DC 20001

Conference Room 106

Online via Livestream

WEDNESDAY, FEBRUARY 5, 2025

EXECUTIVE SESSION

8:30 AM Committee Room Opens, Working Breakfast for Committee, Ex-Officio, and Staff Only
9:50 Executive Session Ends/Brief Break to transition to Open Session (10 mins)

OPEN SESSION

Remote Access
<https://vimeo.com/event/4869866>

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- 10:00** **Welcome/Meeting Introduction** (15 mins)
Co-Chairs Geoff Crowley, Chief Scientist, Arcfield and Sarah Gibson, Senior Scientist, NCAR/HAO
- 10:15** **Space Weather Updates** (45 mins/10 mins each)
- SWORM – Ursula Rick, NASA (virtual)
 - SWAG – Mike Wiltberger, Deputy Director, NSF NCAR/HAO
 - NASA SWx Council – Nicole Duncan, Ball Aerospace/SWC Chair
 - Discussion & Comments (15 mins)
- 11:00** **Decadal Survey: Debrief & Discussion** (90 mins)
- Survey Recap – Robyn Millan, Dartmouth College and Survey Co-Chair (virtual) (45 mins)
 - Discussion with SWR members and Guests (45 mins)
- 12:30 PM** Working Lunch for Members, Ex-Officio, Speakers, and Staff in Meeting Room (45 mins)
- 1:15** **Discussion of the SWAG User Survey** (45 mins/~10 mins each)
- Overview – Mike Wiltberger, Deputy Director, NSF NCAR/HAO
 - Aviation – Kent Tobiska, President and Chief Scientist of Space Environment Technologies
 - Electric Power Grid – Mark Olson, North American Electric Reliability Corporation (NERC) (virtual)
 - Space Traffic Management/Coordination – Delores Knipp, RT Member and Univ. of Colorado

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APL Tabletop Exercise – Drew Turner, Johns Hopkins University Applied Physics Laboratory (30 mins)

- Report Status and Key Takeaways, including Research Gaps for O2R

Remarks from Gary McGraw, incoming President of the Institute of Navigation (virtual) (10 mins)

- PNT, Space Weather, and Introduction to ION.

Placeholder for a discussion of synergies among the SWAG User Survey, the Academies' Solar and Space Physics Decadal Survey, and the APL Tabletop. Are there Opportunities to leverage these reports to advance common SWx-related objectives? (30 mins)

3:00 Break (15 mins)

3:15 **Gannon Storm: Mitigation Efforts and Effectiveness**

- SWAG User Needs Survey ([Report](#)): Overview of the Gannon Storm Effects – Delores Knipp, RT Member and Univ. of Colorado (~20 mins)
- Collecting Perishable Critical Infrastructure Operational Data for May 2024 Space Weather Event, Update on the Survey - Ed Oughton, George Mason Univ. (~20 mins) (virtual)

PANEL Discussion: Geoff Crowley, SWR Co-Chair, Moderator (75 mins) Brief remarks from each speaker (~ 8 min) and remaining time for discussions.

- Aviation – Kent Tobiska, President and Chief Scientist of Space Environment Technologies (SET)
- North American Electric Reliability Corporation (NERC) [Report](#) – Marc Olson, Manager, Reliability Assessments at NERC
- Update on Impact Analysis – Shawn Dahl, NOAA Space Weather Prediction Center (SWPC) (virtual)
- Communications Impacts – Mark MacAlester, SWR Member and Telecom Specialist, Cybersecurity and Infrastructure Security Agency (CISA), DHS (virtual)
- Report from the APL [Workshop](#): The May 2024 Solar & Geospace Superstorm – Nour Rawafi, Senior Scientist, The Johns Hopkins University Applied Physics Laboratory
- Discussions—All

5:15 **Wrap Up** (30 mins.)

5:45 Meeting Adjourns for the Day

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Space Weather Roundtable Meeting – Day 2

Conference Room 106

WEDNESDAY, FEBRUARY 6, 2025

EXECUTIVE SESSION

8:00 AM Committee Room Opens, Working Breakfast for Committee, Ex-Officio, and Staff Only
9:20 Executive Session Ends/Brief Break to transition to Open Session (10 mins)

OPEN SESSION

Remote Access

<https://vimeo.com/event/4869880>

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9:30

Commercial Space Weather Data Products and Services: Exploration of Current Capabilities and Discussion of Issues

- Background Intro to the Topic – Geoff Crowley, SWR Co-Chair and Arcfield (5 mins)
- Overview of Commercial Capabilities – Geoff Crowley, SWR Co-Chair and Arcfield (25 mins)
 - Census of Commercial Products
- SBIR Phase-3 Overview – Alec Engell, Principal Scientist, NextGen Federal Systems, LLC and member, American Commercial Space Weather Association (ACSWA) Executive Committee) (15 mins)
- Discussion of the 2003 Academies' [Fair Weather Report](#) (Louis Uccellini, Director NWS (ret.) and SWR member) (virtual) (15 mins)

Overview How Commercial Data Are Used

- Data Buys – Michael Bonadonna, Chief, Architecture, Product, and Service (APS), NOAA NESDIS (10 mins)
 - Lessons Learned from SWPC [Report](#) on Space Weather Pilot (Radio Occultation)
- Discussion with Alec Engell, Principal Scientist, NextGen Federal Systems, LLC and member, American Commercial Space Weather Association (ACSWA) Executive Committee Experience with Air Force and other customer data buys (5 mins)
- Discussion with Juha-Pekka (Jussi) Luntama, Head of Space Weather, European Space Agency (20 mins)
 - ESA vs. U.S. approaches on Utilization of Data Products

11:00

Break (5 mins)

Panel Discussion: Barriers to Greater Utilization of Commercial Data (55 mins)

12:00 PM

Working Lunch for Members, Ex-Officio, Speakers, and Staff in Meeting Room (30 mins)

12:30

One NOAA

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Jim Spann, Roundtable Ex-Officio/Senior Scientist for Space Weather for NOAA's NESDIS Office of Space Weather Observations (SWO).

1:00 **Open Session Ends / Brief Break to Transition to Executive Session** (5 mins)

EXECUTIVE SESSION

1:05 **Closed Session Discussions** (Committee, Ex-Officio, and Staff Only) (60 mins)

2:00 Meeting Adjourns

IMPORTANT NOTES

Keck Center: The building is located at 500 Fifth St. NW, Conference Room 106 in Washington's Penn Quarter, adjacent to Judiciary Square and the Verizon Center. The closest Metro stations are Gallery Place/Chinatown (Red, Green and Yellow lines; take F St. exit and turn left) and Judiciary Square (Red line; take National Building Museum exit and turn left). Directions available at the following website: <http://www.nationalacademies.org/about/contact/nax.html>.

- **Wi-Fi Connection:** To connect to the Wi-Fi chose "Visitor Network" then open a browser and click "Accept terms and conditions." You will then be connected to the internet.
- **Security/ID required:** Meeting attendees entering the building will need to show a photo ID to the Security Guard, who checks the ID against the attendee list.
- **Parking:** There is plenty of free parking in the Keck Center's underground lot. Access to the lot is off of Sixth Street (between E and F Streets).
- **Metro:** <https://www.nae.edu/20269/Directions-to-the-Keck-Center>

Thank you all for your cooperation, and we look forward to a successful meeting.