

National Academies [Space Weather Roundtable](#)

Summer Meeting, July 8-9, 2024

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

Conference Room 106

Public Agenda

(All times indicated are Eastern Time/EST)

MONDAY, JULY 8, 2024

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Closed Session

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9:30 AM Roundtable Closed Session (Committee and Staff Only)

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Open Session

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OPEN SESSION

Remote Access: <https://vimeo.com/event/4416213>

10:00 Welcome/Meeting Introduction (15 mins.)

Geoff Crowley, Orion Space Solutions and Sarah Gibson, NCAR/HAO

10:15 Space Weather Tabletop Exercise (TTX) (45 mins.)

Tabletop implications for research, gap analysis, and education of users

- **Summary presentation** (30 mins.)  
Ian Cohen, JHUAPL and Ruth Vogel, JHUAPL
- **Discussion of TTX presentation** (15 mins.)

Note: Dipak Srinivasan, JHUAPL, will join the session at 10:45 am

11:00 Break (10 mins.)

**11:10 Session Continues** (50 mins.)

- **Potential RT involvement post TTX**

**Mangala Sharma**, Program Director, SWx, NSF and Roundtable Ex-officio member

- **TTX and facilitating more useful alert products for users**

**Mark Macalester**, DHS-CISA (tentative-in another meeting) (15 mins.)

**Bill Murtagh**, NOAA SWPC or designee (15 mins.)

- **Discussion** (20 mins.)

**12:00 PM Working Lunch** (45 mins)

**12:45 Impacts of Gannon Storms (after storms reports; lessons learned)** (1 hr. & 45 mins.)

- Overview: **Bill Murtagh**, NOAA SWPC (20 mins. [15, 5])
- Sectors
  - Grid: **Mark Olson**, NERC/SWAG (15 mins. [10, 5])
  - GNSS-related: **Rebecca Bishop**, Aerospace Co./SWAG (15 mins. [10, 5])
  - Aviation:
    - **Mike Stills**, United Airlines (ret.)/SWAG and (15 mins. [10, 5])
    - **Kent Tobiska**, President and Chief Scientist of Space Environment Technologies (SET)
  - Space Traffic Management/Effects on Constellations: **Richard Linares**, MIT (15 mins. [10, 5])
  - Comments: **Tzu-Wei Fang**, NOAA SWPC (5 mins.)
- **Discussion** (20 mins.)

**2:30 Break** (15 mins.)

**2:45 GDC and SWx: Practical Impacts** (45 mins.)

- **Larry Kepko**, NASA GSFC (30 mins.)
- Discussion: (15 mins.)

**3:30 Panel Discussion: DoD-Civil SWx Collaboration and Cooperation** (90 mins.)

**Moderator:** Lt Col **Omar A. Nava**, PhD, Chief, Space Weather and Environmental EM Effects, HQ USAF/A3WX and SWx Roundtable

This is a continuation of the discussions from our earlier meetings. Possible topics include:

- Describe the common data pool cutting across NASA-NOAA-NSF, DoD needs;
- Identify what specific DoD gaps can be filled by civil agencies;
- Discuss how to formalize a process to build concrete steps for leveraging efforts to improve both DoD and civil capabilities in Space Weather
- Introduction of Panelists: **Omar Nava**, USAF and SWx Roundtable (10 mins.)
- Session Overview: **Michael Starks**, AFRL and SWx Roundtable (5 mins.)

Panelists: Each panelist has the opportunity to make brief (5 mins.) remarks

- 557<sup>th</sup> Weather Wing: **Lauren “Q” McQuone**, Lt Col, USAF, Commander, 2d Wx Sqn
- 557<sup>th</sup> Weather Wing: Dr. **Jennifer Benson**, DAFC, Chief Space Scientist, 2d Wx Sqn
- HQ Space Operations Command: **Jerry L. Sanders**, DAFC, SpWx Requirements Mgr
- US Space Force: Dr. **Charlie Powell**, USSF HQ, Science and Technology Advisor
- HQ US Navy: CAPT **R. Corey Cherrett**, Ph.D., Oceanographer and Navigator of the Navy
- Office of Naval Research: **Bruce A. Fritz**, PhD, Program Office Detailee to ONR SpWx Program
- Discussion: **Roundtable, Speakers, and Guests** (~ 45 mins.)

**5:00 Wrap Up** (30 mins.)

**5:30 Adjourn for the Day**

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**Space Weather Roundtable Summer Meeting – Day 2**  
Conference Room 106

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**TUESDAY, JULY 9, 2024**

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**OPEN SESSION**

Zoom Remote Access: <https://vimeo.com/event/4416219>

**9:00 Plan for the Day** (15 mins.)

**Geoff Crowley**, Orion Space Solutions and **Sarah Gibson**, NCAR/HAO

**9:15 SWx Issues in Long-term Data Continuity and Archiving** (75 mins.)

- **Alessandra (Ale) Pacini**, NOAA-NCEI (15 mins. [10, 5])
- **Mangala Sharma**, NSF-AGS/Geospace and or designee (15 mins. [10, 5])
- **Lan Jian**, NASA HPD (15 mins. [10, 5])
- **Discussion** (30 mins.)

- Implications for benchmarking – Next steps report
- Implications for future AI access

**10:30 Break** (15 mins.)

**10:45 SWx Updates** (30 mins.)

- SWAG: **Tammy Dickinson**, Science Matters (15 mins.)
- SWORM: **Ursula Rick**, NASA TBC (15 mins.)
- NASA SWx Council: **Nicole Duncan**, Ball Aerospace (15 mins.)

Colleagues invited; All TBC: Jinni Meehan, OSTP; Amy MacPherson, SWAG/Ass't Exec Sec, SWORM; Kelly Korreck, DFO, SWC

**11:15 Discussion with Guests** (45 mins.)

- **Coordination of RT with SWAG/SWORM and SWC**
  - **Needs and Progress in Thermosphere and Ionosphere Data and Model Validation**
    - **Recommendation SWAG 5.2.3:** “SWAG and SWORM should coordinate with the Space Weather Roundtable to convene a meeting on needs and progress in thermosphere and ionosphere data and model validation with the intent to gain more understanding of the current state of the art.”
  - **Other topics:** For example:
    - Revising SWx scales and developing products targeted at specific users/sectors
    - Role of gov't vs. value-added companies

**12:30 PM Working Lunch and Discussion of Next Steps: All** (40 mins.)

**1:10 Open Session Ends / Brief Break to Transition to Closed Session** (5 mins.)

### Closed Session

**1:15 Closed Session** (Committee and Staff Only)

**1:45 Meeting Adjourns**

## IMPORTANT NOTES

Roundtable website: <https://www.nationalacademies.org/our-work/space-weather-roundtable>

**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>

### Members of the General Public:

- Remote access will be provided through a live stream on Vimeo.

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