

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES SPACE STUDIES BOARD

COMMITTEE ON SOLAR AND SPACE PHYSICS
October 5–7, 2016
Keck Center – 500 Fifth Street NW – Washington D.C.
Room 208

Wednesday October 5, 2016
Keck 208

OPEN SESSION

Remote Access

WebEx: <https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m9575fb6679717b42c105751c6e0e0746>
Meeting Password: solar Dial In: 1-866-668-0721 Telecon Conference Code: 410 356 8429

9:05 AM	Welcome and Meeting Overview	Todd Hoeksema and Mary Hudson, Co-Chairs
9:15 AM	NASA Heliophysics Update	Steven Clarke, NASA
10:30 AM	<i>Break</i>	
11:00 AM	Status of SWAP Actions and Carryover into Next Administration	Bill Murtagh, OSTP
11:30 AM	Discussion	Committee and Guests
12:00 PM	<i>Lunch will be served in the meeting room; discussion will continue</i>	
1:00 PM	NSF Astronomy Update	Dave Boboltz, NSF
2:00 PM	NSF Geospace Update	Therese Jorgensen, NSF
3:00 PM	<i>Break</i>	
3:30 PM	Update on Solar Probe Plus	Joseph Smith, NASA
4:30 PM	Intro to Space Weather Discussion	Todd Hoeksema and Mary Hudson, Co-Chairs
5:00 PM	NSF perspectives on Focus Session Topics	Therese Jorgensen, NSF
5:30 PM	<i>Activities suspended to reconvene in open session for a working dinner.</i>	

Thursday October 6, 2016

Keck 208

OPEN SESSION

Remote Access

WebEx: <https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m43d32b321b9fdd08557091e942811f10>
Meeting Password: solar Dial In: 1-866-668-0721 Telecon Conference Code: 410 356 8429

9:00 AM	Topics from the NASA Advisory Council Science Committee – Heliophysics	Jill Dahlburg, NRL
9:30 AM	NOAA Update	(TBC)
10:15 AM	Break	

Focus Session on Gaps in Space Weather Forecasting

10:30 AM	Policy Gap: Support for research to operations and operations to research	Bill Lapenta, NOAA Elsayed Talaat, NASA Ralph Stoffler, USAF
11:15 AM	Policy Gap: Development and maintenance of complete community Space Weather models	Antti Pulkkinen, GSFC Rodney Viereck, NOAA
12:00 PM	<i>Lunch will be served in the meeting room; discussion will continue</i> Exploring Farside Active Regions (15 minutes) Ionospheric Data Assimilation (15 minutes) via WebEx Ryan Mcgranaghan, Dartmouth College	Lisa Upton, HAO Ryan Mcgranaghan, Dartmouth College
1:00 PM	Awareness Gap: Diffuse responsibility and requirements from multiple agencies lead to uncertainty about how the scientific community can contribute effectively to Space Weather operations.	Terry Onsager, NOAA Col Mike Gremillion, USAF
1:45 PM	Vision Gap: What are our Space Weather horizon goals and how do they determine quantifiable tactical and strategic goals for operations and research?	Michael Bonadonna, OFCM Elsayed Talaat, NASA
2:30 PM	Break	
3:00 PM	Culture Gap: Space Weather forecasting must be incorporated into the Solar and Space Physics science culture.	Committee and Guests
3:45 PM	Forecasting Long Term Solar Variability	Andrés Muñoz-Jaramillo, Georgia State University
4:00 PM	Science Gap: SWPC and others have articulated some of the existing gaps in measurements, modeling, and operational forecasting.	Bill Lapenta, NOAA

4:45 PM	Plugging the Gaps	Committee and Guests
5:30 PM	<i>Adjourn for the day</i>	

Friday October 7, 2016
Keck 208

8:00 AM	Meeting Room Opens (<i>Breakfast available in the room</i>)	
OPEN SESSION		
Remote Access		
WebEx:	https://nationalacademies.webex.com/nationalacademies/j.php?MTID=m6e62a7bf8338f445e7e0c01e3d8c0ccd	
Meeting Password:	solar	Dial In: 1-866-668-0721
		Telecon Conference Code: 410 356 8429
8:30 AM	CSSP Status Updates – Reconstituting the Committee	SSB Staff
9:00 AM	Possible SSB space weather study – needs and parameters	Committee
10:00 AM	<i>Break</i>	
10:30 AM	Follow Up Discussion with NASA Heliophysics	Committee and Guests
11:15 AM	Upcoming midterm decadal review	Committee and Guests
12:00 PM	<i>Meeting Adjourns; Lunch tickets will be provided</i>	

WEBEX INSTRUCTIONS

To join the WebEx online meeting from your computer's browser

Click on the meeting link in the agenda above for a direct connection to the WebEx meeting and an audio connection (best quality option). You will need to enter the WebEx Meeting Password (also in the agenda above).

The WebEx service will ask you for a phone number at which to call you and connect you to the meeting's audio. You do not need to connect using the telecon number below if you use the WebEx service.

Teleconference information if not using WebEx

Call-in toll-free number: 1-866-668-0721 (within the US only)

Telecon Conference Code: 410 356 8429

There is no password for the telecon-only option

(If you require a toll free number to call in from outside the United States please contact the meeting organizer)

NOTES

Note to Observers: This meeting is being held to gather information to help the committee conduct its activities. The committee will examine the information and material obtained during open sessions in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn at this time. Therefore, observers who draw conclusions about the committee's work based on discussions during this meeting will be doing so prematurely. Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person's future position as it may evolve in the course of the committee's activities.

Note to Presenters: If your presentation contains unpublished data, ITAR controlled and/or other sensitive information, please be aware that the open sessions at the meeting will be webcast and presentation materials given to the committee may be posted on a publicly accessible website. Please edit your presentations accordingly.

Working Dinner: District Chophouse, 509 7th St NW, Washington, DC

All meeting participants can attend. The Academies will only pay for members of the committee and guest speakers. Unfortunately, the Academies cannot pay for civil servants. The cost of the dinner is \$50.00. Checks, payable to the National Academy of Sciences, are preferred.

Keck Center: Is located at 500 Fifth St. NW, in Washington's Penn Quarter district, adjacent to Judiciary Square and the Verizon Center. The closest Metro stations (Information about the D.C. Metro can be found at <http://www.wmata.com/>) are Gallery Place/Chinatown (Red, Green and Yellow lines; take "7th and 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>.

Parking: There is plenty of free parking for meeting participants in the Keck Center's underground lot. Access is at the F St. end of Sixth St.

Save the Date! Meetings in 2017: The committee will hold its next meeting on Tuesday-Thursday, March 28-30, 2017 at the National Academy of Sciences, 2101 Constitution Ave. NW, Washington, D.C. 20418. The date of the autumn 2017 meeting is TBD.

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