

**187<sup>th</sup> MEETING OF THE  
SPACE STUDIES BOARD****NOVEMBER 14 - 16, 2023****Hybrid Meeting**

In Person at the NASEM Beckman Center, 100 Academy Way, Irvine, CA; Huntington Room

Online via Zoom and Livestream

All times PACIFIC

**TUESDAY, NOVEMBER 14, 2023**

8:50 AM MEETING ROOM OPENS TO PUBLIC

**OPEN SESSION**Livestream Link: <https://vimeo.com/event/3832246>**CLICK HERE TO JOIN**

8:55 AM	<b>OPENING REMARKS</b>	<b>DR. MARGY KIVELSON, SSB CHAIR</b>
9:00 AM	<b>Update and Discussion with NASA Science Mission Directorate (SMD)</b> (40 minute presentation & 30 minute discussion period)	<b>Dr. Nicola Fox</b> Associate Administrator NASA SMD
10:15 AM	Break (30 minutes)	
10:45 AM	<b>DSN and Future Communications Needs</b> (35 minute presentation & 25 minute discussion period)	<b>Mr. Jeff Volosin</b> Acting Deputy Associate Administrator NASA Space Communications and Navigation (SCaN) Program
11:45 AM	Lunch Break (45 minutes)	
12:30 PM	<b>Briefing on Ensuring the Future of Biological and Physical Sciences Research: A Decadal Survey for 2023 – 2032</b> (40 minute presentation & 20 minute discussion period)	<b>Dr. Krystyn Van Vliet and Dr. Robert Ferl,</b> BPS Decadal Co-Chairs
1:40 PM	<b>Lessons from the OSIRIS-REx Asteroid Sample Return Mission</b> (40 minute presentation & 30 minute discussion period)	<b>Dr. Dante Lauretta</b> PI, OSIRIS-Rex University of Arizona

**187th Meeting of the Space Studies Board**  
**November 14-16, 2023**

2:50 PM	<b>Mars Sample Return Independent Review Board Report</b> (40 minute presentation & 30 minute discussion period)	<b>Mr. Orlando Figueroa</b> Chair, MSR IRB
4:00 PM	Break (30 minutes)	
4:30 PM	<b>In the Quest of the Sun and the Moon: Aditya-L1 and Chandrayaan-3 missions</b> (30 minute presentation & 20 minute discussion period)	<b>Dr. Tirtha Pratim Das</b> Director of Space Science Directorate Indian Space Research Organisation (ISRO)
5:20 PM	<b>Day 1 Closing Remarks</b>	<b>Dr. Margy Kivelson</b>
5:25 PM	Public Meeting Adjourns	

**187th Meeting of the Space Studies Board**  
**November 14-16, 2023**

**WEDNESDAY, NOVEMBER 15, 2023**

8:00 AM MEETING ROOM OPENS TO PUBLIC

---

**OPEN SESSION**

Livestream Link: <https://vimeo.com/event/3832267>

**CLICK HERE TO JOIN**

8:40 AM	<b>OPENING REMARKS</b>	<b>DR. MARGY KIVELSON, SSB CHAIR</b>
8:45 AM	<b>Solar Orbiter - Mission Status and Science Highlights</b> (20 minute presentation & 10 minute discussion period)	<b>Dr. Daniel Müller</b> Solar Orbiter Project Scientist European Space Agency (ESA)
9:15 AM	<b>Committee on Radio Frequencies (CORF): Recent Activity</b> (20-minute presentation & 10-minute discussion period)	<b>Dr. Nathaniel Livesey</b> Chair, CORF Jet Propulsion Laboratory California Institute of Technology
9:45 AM	<b>Spectrum Management at the National Science Foundation (NSF)</b> (30 minute presentation & 20 minute discussion period)	<b>Dr. Ashley VanderLey</b> Acting Senior Science Advisor for Strategy and Engagement NSF Directorate for Mathematical and Physical Sciences (MPS)
10:35 AM	Break (30 minutes)	
11:05 AM	<b>Parker Solar Probe: Five Years of Exploring the Near-Solar Environment</b> (30 minute presentation & 25 minute discussion period)	<b>Dr. Nour Raouafi</b> Parker Solar Probe Project Scientist The Johns Hopkins University Applied Physics Laboratory
12:00 PM	Lunch Break (60 minutes)	
1:00 PM	<b>GOMAP Update from NASA Astrophysics</b> (20 minute presentation & 10 minute discussion period)	<b>Dr. Mark Clampin</b> Astrophysics Division Director NASA SMD
1:30 PM	<b>JWST Science Contributions to Cosmology</b> (30 minute presentation & 20 minute discussion period)	<b>Dr. Adam Riess</b> The Johns Hopkins University Space Telescope Science Institute

**187th Meeting of the Space Studies Board**  
**November 14-16, 2023**

<b>2:20 PM</b>	<b>Orbital Debris Regulation</b> <i>(20 minute presentation &amp; 10 minute discussion period)</i>	<b>Dr. Asha Balakrishnan</b> Assistant Director Science and Technology Policy Institute (STPI)
<b>2:50 PM</b>	<b>Update from the Department of State Office of Space Affairs</b> <i>(15 minute presentation &amp; 15 minute discussion period)</i>	<b>Ms. Valda Vikmanis Keller</b> Director of the Office of Space Affairs Bureau of Oceans and International Environmental and Scientific Affairs U.S. Department of State
<b>3:20 PM</b>	<b>Day 2 Closing Remarks</b>	<b>Dr. Margy Kivelson</b>
<b>3:25 PM</b>	Public Meeting Adjourns	

**187th Meeting of the Space Studies Board**  
**November 14-16, 2023**

**THURSDAY, NOVEMBER 16, 2023**

9:10 AM MEETING ROOM OPENS TO PUBLIC

---

**OPEN SESSION**

Livestream Link: <https://vimeo.com/event/3832263>

**CLICK HERE TO JOIN**

9:15 AM	<b>Opening Remarks</b>	<b>Dr. Margy Kivelson, SSB Chair</b>
9:20 AM	<b>U.S. Strategy on Protection of Satellites</b> (20 minute presentation & 10 minute discussion period)	<b>Dr. John F. Plumb</b> Assistant Secretary of Defense for Space Policy U.S Department of Defense
9:50 AM	<b>Discussion with NASA Space Technology Mission Directorate (STMD)</b> (25 minute presentation & 15 minute discussion period)	<b>Ms. Niki Werkheiser</b> Program Director for Technology Maturation NASA STMD
10:30 AM	Break (30 minutes)	
11:00 AM	<b>Landsat and What Comes Next</b> (25 minute presentation & 15 minute discussion period)	<b>Dr. Christopher J Crawford</b> Landsat Next Phase A Formulation Project Scientist U.S. Geological Survey
11:40 AM	<b>Climate Related Risks and Opportunities</b> (30 minute presentation & 20 minute discussion period)	<b>Dr. Chris Field</b> Perry L. McCarty Director Stanford Woods Institute for the Environment
12:30 PM	<b>Day 3 Closing Remarks</b>	<b>Dr. Margy Kivelson</b>
12:35 PM	Public Meeting Adjourns	

**187th Meeting of the Space Studies Board  
November 14-16, 2023**

**IMPORTANT NOTES**

**Presenters:**

- Please do not include unpublished data, ITAR-controlled or sensitive information in your presentation.
- A National Academies Board staff member will ask you to sign a form before the meeting allowing us permission to use your likeness and presentation for our livestream video, which will be posted on our Board website after the meeting. Please get in touch with us before the meeting if you have any concerns about this usage.

**Board Members and Presenters:**

- Remote access will be provided through Zoom. This will allow you to participate in the meeting even if you can't be physically present.
- Please note that Zoom allows audio and any materials exchanged or viewed during the session to be recorded and shared.
- By participating in this activity, you agree to let your voice, likeness, and any materials you provide be recorded for use and dissemination. This includes any language, format, or media now known or later devised.
- You release the National Academies of Sciences, Engineering, and Medicine from any and all claims, liability, or damages arising from any such use. If you disagree, please do not join the session.

**Members of the General Public:**

- Remote access will be provided through a live stream on Vimeo. This will also be publicly available and posted on the Board website. You do not need to register.

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