

Committee on the Review of Progress Toward Implementing the Decadal Survey-Thriving on Our Changing Planet: A Decadal Strategy for Earth Observation from Space – Meeting #2

November 2-3, 2023

Hybrid Meeting

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

Online via Zoom and Livestream

THURSDAY, NOVEMBER 2, 2023

OPEN SESSION

Livestream: <https://vimeo.com/event/3842331>

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- 9:00 AM** **Panel: Vitality and Diversity of Scientists and Engineers in ESD Community**
(2 x 15 minute presentations & 45 minute discussion period)
Panelists: **Fran Bagenal (CU Boulder)** (virtual) &
Wanda Ward (UI Urbana-Champaign) (virtual)
*Cmt. on Increasing Diversity and Inclusion in the Leadership of
Competed Space Missions*
Charlie Bolden (The Charles F. Bolden Group LLC) (virtual) &
Wanda Sigur (Lambent Engineering LLC) (virtual)
*Cmt. on the Foundation for Assessing the Health and Vitality of the
NASA Science Mission Directorate's Research Communities*
- 10:15 AM** **Developing a Continuity Framework for Satellite
Observations of Climate** **Duane Waliser**
(30 minute presentation & 15 minute discussion period) **Jet Propulsion Laboratory**
- 11:00 AM** Break (15 minutes)
- 11:15 AM** **Surface Biology and Geology Designated
Observable Study** **Dave Schimel**
(30 minute presentation & 15 minute discussion period) **Jet Propulsion Laboratory**
- 12:00 PM** Working Lunch for Members, Speakers, and Staff (60 minutes)
[Beckman Center Cafeteria]
- 1:00 PM** **Landsat Next** **Timothy Newman** (virtual)
(30 minute presentation & 15 minute discussion period) **USGS**

**Midterm Review of the 2017 Earth Sciences Decadal Survey
November 2-3, 2023**

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| 1:45 PM | Surface Deformation & Change Designated Observable & The NASA-ISRO SAR (NISAR) Mission
<i>(30 minute presentation & 15 minute discussion period)</i> | Paul Rosen
Jet Propulsion Laboratory |
| 2:30 PM | Mass Change Designated Observable Study
<i>(30 minute presentation & 15 minute discussion period)</i> | Frank Webb
Jet Propulsion Laboratory |
| 3:15 PM | Meeting Adjourns to Executive Session; Break (15 minutes) | |

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- Please do not include unpublished data, ITAR-controlled or sensitive information in your presentation.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.

Midterm Review of the 2017 Earth Sciences Decadal Survey November 2-3, 2023

Statement of Task

The National Academies of Sciences, Engineering, and Medicine (NASEM) shall convene an ad hoc committee to review the responses from NASA, NOAA, and the USGS earth observations programs to the 2017 decadal survey, “Thriving on Our Changing Planet: A Decadal Strategy for Earth Observation from Space.” The committee’s review will include the following tasks:

1. Highlight the most significant scientific discoveries, technical advances, and relevant programmatic changes in Earth science and applications over the years since the publication of the decadal survey. Describe any significant changes in the scientific and operating environment specifically related to Earth Observations that should be considered as NASA, NOAA and the USGS move forward in implementing the decadal survey.
2. Assess the degree to which the programs of NASA, NOAA and the USGS address the strategies, goals, and priorities outlined in the 2017 decadal survey and other relevant National Academies reports, including the impact of legislative or national policy directives.
3. Assess the progress toward realizing these strategies, goals and priorities.
4. Assess and provide guidance on impact and effectiveness of Earth science programs (including research, applications, data systems and technology) in implementing the decadal survey recommendations, synergies, and portfolio balance.
5. Recommend actions that could be taken to optimize the full breadth of NASA's Earth science programs during the remaining decadal interval. Consider current and forecasted resources, progress on decadal missions, coordination with entities external to NASA including other agencies, international partners, and science and technology advances from the study groups examining implementation of the survey-recommended "targeted observables".
6. Recommend any actions that NASA, NOAA and the USGS should undertake to prepare for the next decadal survey, including information, observables, pathfinders, or technology.
7. Comment on NASA efforts since the last survey to enhance the vitality and diversity of the scientists and engineers who work on programs sponsored by NASA Earth Science Division (ESD) and recommend actions that might be taken to enhance progress in these areas.

In conducting these tasks, the committee shall not revisit or redefine the scientific priorities or recommended targeted observables, unless indicated by superseding legislative or national policy directives.