

Recent CSSP Activities

Todd Hoeksema, co-chair

Report to the SSB Meeting
2 November, 2016

These slides are a personal assessment of issues discussed during recent meetings of the CSSP and should not be cited or quoted as the views expressed do not necessarily reflect those of the CSSP, the SSB, or the Academies

CSSP Highlights

Progress on Decadal Survey Goals is being made – slowly and tentatively

- **DRIVE** funding wedge still promised in FY18
 - FY 17 budget uncertain, particularly the ‘mandatory’ items for DRIVE (5M) space weather (10M), and cube sats (10M).
 - Science centers deferred.
 - Marginal progress in proposal success rates in R&A at NASA and NSF – some improvements programmatic.
- **Explorers** - Heliophysics SMEX proposals just received
 - Projected cadence 2013, 2017, 2022, maybe 2024/5?
 - JAXA/Solar-C on hiatus.

These slides are a personal assessment of issues discussed during recent meetings of the CSSP and should not be cited or quoted as the views expressed do not necessarily reflect those of the CSSP, the SSB, or the Academies

CSSP Highlights – cont.

Future Strategic Missions

- **STP** - IMAP (Interstellar Mapping & Acceleration Probe)
 - ◆ AO in FY17 - But details uncertain – no STDT; no commitment to PI-led; no firm collaboration with NOAA/SWPC
- **LWS** - GDC (Geospace Dynamic Constellation)
 - ◆ AO in FY18.
 - ❖ Solar Probe Plus and Solar Orbiter on track for CY 2018 launch.
- **NSF** MREFC DKIST (D.K. Inouye Solar Telescope)
 - ◆ On track for 2019 commissioning
 - ❖ Divestiture of most other solar telescopes proceeding
 - ❖ Synoptic program hanging on with some inter-agency support (NOAA, some DoD) for operational needs

These slides are a personal assessment of issues discussed during recent meetings of the CSSP and should not be cited or quoted as the views expressed do not necessarily reflect those of the CSSP, the SSB, or the Academies

CSSP Highlights – cont.

Leadership -- CSSP continues to build relationships with changing personnel at the agencies.

- ❖ 3 meetings in a row with same NASA/HPD leadership !!
- ❖ Still-delayed appointment of new Heliophysics science deputy
- ❖ Leadership in transition at SWPC
- ❖ Heliophysics visibility

NSF/AGS Portfolio Review

- ❖ Under Review

These slides are a personal assessment of issues discussed during recent meetings of the CSSP and should not be cited or quoted as the views expressed do not necessarily reflect those of the CSSP, the SSB, or the Academies

CSSP Highlights - SWX

Two pieces of space-weather news:

- President Obama issued an executive order assigning responsibility for Space Weather to a permanent subcommittee of the National Science and Technology Council.
- NOAA has taken responsibility for solar and solar wind observations at L1 with a 2022 follow-on mission, allowing other agencies to focus on L5.

These slides are a personal assessment of issues discussed during recent meetings of the CSSP and should not be cited or quoted as the views expressed do not necessarily reflect those of the CSSP, the SSB, or the Academies

CSSP Highlights - SWX

Space Weather was a major topic. Sessions Focused on Six Impediments to Progress in Space Weather.

There was lively discussion. More detail will follow during tomorrow's discussion of a Space Weather Study

- **Vision: What are the horizon goals that drive our strategic and tactical programs?**
- **Science: What gaps exist in measurements, modeling, and forecasting tools?**
- **Policy: Is there a program supporting Research to Operations and Operations to Research?**
- **Implementation: How are community models best developed, maintained and improved?**
- **Awareness: What really are the important requirements and who is responsible for them?**
- **Culture: How can we overcome the persistent apparent conflict between pure and applied science?**

These slides are a personal assessment of issues discussed during a recent CSSP committee meeting and should not be cited or quoted as the views expressed do not necessarily reflect those of the CSSP, the SSB, or the Academies