

CSSP – Committee on Solar and Space Physics

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Space Week

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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 NRC

CSSP Highlights / Concerns

- NASA/Heliophysics Leadership
- NSF/AGS Leadership; Portfolio Review
- Some future optimism about budget for NASA Heliophysics competed research / DRIVE / Initiation of next Explorer
- Starting the next STP mission
- NSF/AST – DKIST Science Program?
- SWORM – US response to severe space weather
- DSCOVR / MMS / MAVEN missions
- Direction of LWS Program

Presentations

- **International: European and Chinese Space Agencies**
- **MAVEN results – Joint with CAPS – aeronomy at Mars**
- **NASA Heliophysics – Jeff Newmark**
- **NSF GEO/ATM – Vladimir Papitashvili**
- **NOAA/SWPC – Tom Berger**
- **NSF/AST – – DKIST – David Boboltz**

Discussions

- **SWORM** – National Preparedness for Severe Space Weather Events – Bill Murtaugh, OSTP
- **DRIVE** – Sarah Gibson, HAO
- **SPA Advocacy** – Len Fisk, U Mich
- **Next Strategic Mission – IMAP**
Accelerating Implementation of Heliophysics
Solar Terrestrial Probes (STP) – Jeff Newmark

SWORM

Space Weather Operations, Research, and Mitigation

National preparedness for response to and mitigation of extreme space weather events.

- Involves FEMA, NASA, NSF, NOAA, DoD, FAA, DHS, NWS, OSTP, OMB ...
- 6 Goals for Improvement
 - Meaningful event benchmarks
 - Response and recovery capability
 - Protection and mitigation efforts
 - Assessment, modeling, prediction of infrastructure impacts
 - S/W services with better understanding and forecasting
 - International cooperation
- Action Plan expected by summer – Top/Down approach
- Sustained effort / attention at high level

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Next STP Mission – IMAP

Interstellar Mapping and Acceleration Probe

- How best to define the mission goals and implementation for a competed mission?
 - RFI, STDT, Competitive Phase A, or ...
- Is separating the mission into parts acceptable?
 - Particle acceleration
 - Heliospheric Boundary
 - In situ particles / NOAA Collaboration
- Concern that no mission name is being used
- Concern about funding and impact on Explorer Program