White House Office of Science and Technology Policy
National Science and Technology Council
Space Weather Operations, Research, and Mitigation Subcommittee

NASA Space Weather Council
8 August 2024
Dr. Ursula Rick, SWORM Executive Secretary

Space Weather Policies and Activities

PROSWIFT (Public Law No: 116-181)

- Promoting Research and Observations of Space Weather to Improve the Forecasting of Tomorrow Act
  - Space Weather Advisory Group
  - NASEM Roundtable

Executive Order 13744 (2016) & 13865 (2019)

- Coordinating Efforts To Prepare the Nation for Space Weather Events
- Coordinating National Resilience to Electromagnetic Pulses

OSTP SWORM Subcommittee

- Space Weather Operations, Research, and Mitigation Interagency Subcommittee
- 34 Departments, Agencies, and Offices
- National Space Weather Strategy and Action Plan

Space Policy Directive-3

- National Space Traffic Management

NASA-NOAA Agreement

- Interagency Agreement for Human Spaceflight Activities

Quad-Agency MOA

- Interagency Agreement to encourage and support collaboration to advance the Nation's space weather research and operations capabilities

FEMA Federal Operating Concept

- Impending Space Weather Events

National Security Memorandum (NSM)-22

- Released April 30th
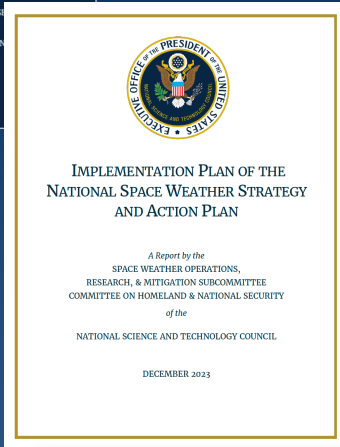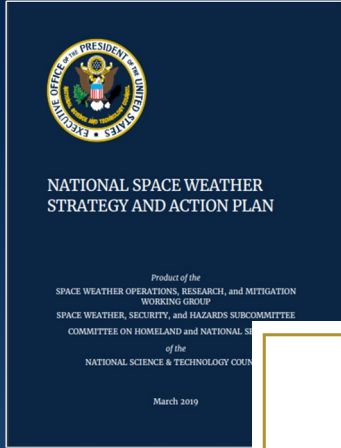- Includes requirement for analysis of space weather impacts

Quad-Agency Memorandum of Agreement

- NOAA/NASA/NSF/Dept. of the Air Force interagency agreement
- Signed in December 2023
- Enhances collaboration and coordination between and among the four Agencies
- Focused on research-to-operations-to-research activities
  - R2O2R Executive Board of Agency decision-makers
  - R2O2R Steering Committee of scientific and operational experts

OSTP and the National Space Council released the Implementation Plan (IP) of the National Strategy and Action Plan in December 2023

- 93 actions among 3 main objectives of 2019 Strategy and Action Plan
  - Obj. I: Enhance the Protection of National Security, Homeland Security and Commercial Assets and Operations Against the Effects of Space Weather
  - Obj. II: Develop and Disseminate Accurate and Timely Space Weather Characterization and Forecasts
  - Obj. III: Establish Plans and Procedures for Responding to and Recovering From Space Weather Events
- SWORM Departments and Agencies working to prioritize and execute on actions

Some Key Implementation Plan Activities

- Space weather event **Benchmarks**
  - Project Plan developed – led by DHS
  - Next Step Benchmarks released in 2019
  - SWAG R.14.1, IP Action 1.1

- U.S. space weather **Scales** (see next slide)
  - Project Plan ongoing – led by NOAA
  - A lot of international interest
  - SWAG R.15.2, IP Action 2.9.3

NOAA Space Weather Scales Revision Effort (IP Action 2.9.3)

COMPLETED
- Conducted 64 Engagements including interviews, roundtables and international workshops with nearly 150 people
- Gathered a range of feedback with strong agreement that the communication of the scales and space weather events needs to improve
- Discussed SW scales with international stakeholders in Australia and at COSPAR in South Korea
- RFI in the Federal Register - closed July 31

UPCOMING
- Will analyze responses to the Request for Information on SW scales revisions and updates
- Will discuss SW scales at an Americas event in October co-hosted with the Brazilian embassy
- Will work with SWORM to gather government stakeholder feedback on improvements to SW scales for government decisionmakers

More details tomorrow from STPI…

SWORM/SWAG Activities

- OSTP Space Weather Summit – 26 September
  - SWAG User Survey will be delivered to SWORM and briefed to Congress
  - Many thanks to the SWAG for such a monumental effort!
  - Mandated by PROSWIFT Act
  - User Survey to be repeated every 3 years
- New SWAG Membership – current terms expire September 31st
  - Nominations closed June 30th
  - SWORM members reviewing nominations and will select next SWAG membership
  - Previous SWAG members may serve another term – no more than two consecutive 3-year terms
- SWORM discussing next SWAG tasks this summer and fall

Thank you!
Questions?