

National Space Weather Strategy

National Science and Technology Council
Committee on Environment, Natural Resources and Sustainability
Subcommittee on Disaster Reduction
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Severe Space Weather – Societal and Economic Impacts



Space Weather Awareness

Multiple efforts underway across government agencies, nationally and internationally

- Congress Critical Infrastructure Protection Act, H.R. 3410, Dec 2014; NASA Authorization Act of 2010
- U.S. Regulatory Action FERC reliability standards
- Space weather in Strategic National Risk Assessment
- FEMA Federal Interagency Response Plan Will include a Long-Term Power Outage Annex
- International UN WMO Inter-Programme Coordination Team on Space Weather; FAA and UN International Civil Aviation Organization; NATO space weather teams



National Space Weather Strategy

A cohesive all-of government strategy was necessary to ensure the federal government was positioned to mitigate, respond to and recover from a major space weather storm

Nov 2014 – The Space Weather Operations, Research, and Mitigation (SWORM) Task Force was established by action of the NSTC/CENRS/SDR

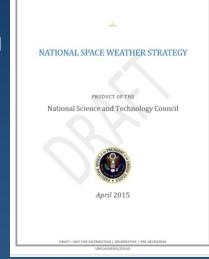
Tasked to develop:

- National Space Weather Strategy
- Space Weather Action Plan



National Space Weather Strategy — Structure Strategy articulates six high-level goals.

- 1. Establish Benchmarks for Space Weather Events
- 2. Enhance Response and Recovery Capabilities
- 3. Improve Protection and Mitigation Efforts
- Improve Assessment, Modeling, and Prediction of Impacts on Critical Infrastructure
- 5. Improve Space Weather Services through Advancing Understanding and Forecasting (R2O/O2R, Observations)
- 6. Increase International Cooperation



Space Weather Action Plan

A Space Weather Action Plan (SWAP) is being developed that will establish a process to implement the National Space Weather Strategy

- Strategy must have an accompanying roadmap (action plan) to be successful
- The SWAP will establish specific actions with implementation timelines, detailed activities, and agency assignments



National Space Weather Strategy – Whole Enterprise Involvement

- Multi-agency effort
- All Actions coordinated with White House Office of Science and Technology Policy, National Security Council, and Office of Management and Budget
- Public Comment Period an opportunity for all stakeholders to provide input and feedback on NSWS

Strategy will require us to strengthen our interagency, public-private and international partnerships, in a whole community approach.



National Space Weather Strategy – Comment Period

- Public Comment period now underway
- Will end on 29 May (30 days after Strategy was published on Federal Register)

NSWS Presentations to:

- National Research Council Space Studies Board
- Boulder Space Weather Workshop
- Joint AGU-AAS Triennial Earth-Sun Summit
- Critical infrastructure sectors (DHS)



Announcement on Federal Register (29 April)



https://www.federalregister.gov/articles/2015/04/30/2015-10113/national-science-and-technology-council-national-space-weather-strategy

http://www.dhs.gov/national-space-weather-strategy





THANK YOU!

Space Weather Operations, Research, and Mitigation Task Force

Co-chairs: Caitlin Durkovich, Assistant Secretary for Infrastructure Protection, DHS
Louis Uccellini, Assistant Administrator, National Weather Service, NOAA
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