



CHARTER  
of the  
SUBCOMMITTEE on SPACE WEATHER OPERATIONS, RESEARCH, AND MITIGATION  
of the  
COMMITTEE ON ENVIRONMENT, NATURAL RESOURCES, AND SUSTAINABILITY  
NATIONAL SCIENCE AND TECHNOLOGY COUNCIL

**A. Official Designation**

The Subcommittee on Space Weather Operations, Research, and Mitigation is hereby established by action of the National Science and Technology Council (NSTC), Committee on Environment, Natural Resources, and Sustainability (CENRS).

**B. Purpose and Scope**

The Subcommittee will serve as the interagency body that seeks to coordinate Federal Government departments and agencies to meet the goals and objectives specified in the *National Space Weather Strategy* (Strategy) (October 2015) and the activities defined in the *National Space Weather Action Plan* (Action Plan) (October 2015).

The Subcommittee will also provide space-weather focused input into the National Planning Frameworks called for by the Presidential Policy Directive 8 (PPD-8): *National Preparedness* (2011) and National critical infrastructure resilience initiatives outlined in PPD-21: *Critical Infrastructure Security and Resilience* (2013).

**C. Functions**

The Subcommittee, in coordination with other relevant Subcommittees in CENRS, the Committee on Homeland and National Security, and the Committee on Science will:

1. Coordinate and oversee the implementation of the activities, timelines, and milestones identified in the Action Plan. The Subcommittee will review the progress of implementation annually, or as needed.
2. Coordinate with OMB to develop annual multi-department and agency investment strategies and priorities that advance the implementation of the Action Plan.
3. Coordinate Federal and non-Federal stakeholder collaborations to improve understanding, observing systems and networks, and data management activities related to space weather.
4. Work with other NSTC bodies to coordinate international cooperation in space weather, including strategic communications; the exchange of data, information, models, and research personnel; joint research; preparedness planning, and exercises; and creating new programs.

5. Provide scientific and technical information to senior policymakers to enhance preparedness before, during, and after space weather events.
6. Review, evaluate, and update the Strategy and Action Plan every three years, or as needed.

The Subcommittee may establish working groups, as necessary, to carry out these functions.

#### D. Membership

The following NSTC departments and agencies are represented on the Subcommittee:

- Department of State
- Department of Defense
- Department of the Interior<sup>1</sup>
- Department of Commerce<sup>2</sup>(Co-chair)
- Department of Transportation
- Department of Energy
- Department of Homeland Security (Co-chair)
- National Aeronautics and Space Administration
- National Science Foundation

The Subcommittee shall coordinate directly with other relevant offices of the Executive Office of the President and the NSTC, as needed. Cooperating departments and agencies shall include other Executive branch organizations, departments, and agencies as the Co-chairs may designate, including but not limited to the Federal Communications Commission, the Federal Energy Regulatory Commission, and the Nuclear Regulatory Commission.

The following offices of the Executive Office of the President shall also be represented on the Subcommittee:

- Office of Science and Technology Policy (Co-chair)
- National Security Council
- Office of Management and Budget

#### E. Private Sector Interface

The Subcommittee may seek advice from members of the President's Council of Advisors on Science and Technology (PCAST) or other Presidential Advisory Councils and will recommend to the CENRS, or the Assistant to the President for Science and Technology, through the OSTP Liaison to the Subcommittee, the nature of additional non-Federal and private-sector advice needed to accomplish its mission. The Subcommittee may also interact with and receive *ad hoc* advice from the PPD-21 Critical Infrastructure Partnership Advisory Councils (CIPAC) as well as from various non-Federal and private-sector groups as consistent with the Federal Advisory Committee Act (FACA).<sup>3</sup>

<sup>1</sup> Specifically but not exclusively to include: United States Geological Survey.

<sup>2</sup> Specifically but not exclusively to include: National Oceanic and Atmospheric Administration.

<sup>3</sup> The Federal Advisory Committee Act, 5 U.S.C. App., as amended, does not explicitly define "private sector", but the phrase is generally understood to include individuals or entities outside the Federal government such as, but not limited to, the following: non-Federal sources, academia, State, local or tribal governments, individual citizens, the public, non-governmental organizations, industry associations, and international bodies.


**F. Termination Date**

Unless renewed by the Co-chairs of the CENRS prior to its expiration, the Subcommittee shall terminate no later than March 15, 2017.


**G. Determination**

I hereby determine that the formation of the Subcommittee on Space Weather Operations, Research, and Development is in the public interest in connection with the performance of duties imposed on the Executive branch by law, and that such duties can best be performed through the advice and counsel of such a group.


Approved:

  
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Tamara Dickinson  
Co-chair of the CENRS, and  
Principal Assistant Director for Environment and Energy  
Office of Science and Technology Policy  
Executive Office of the President

10/27/16  
Date

  
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Kathryn Sullivan  
Co-chair of the CENRS, and  
Under Secretary of Commerce for Oceans and Atmosphere and  
Administrator of the National Oceanic and Atmospheric Administration  
Department of Commerce

10-25-16  
Date

  
\_\_\_\_\_  
Thomas Burke  
Co-chair of the CENRS, and  
Deputy Assistant Administrator for Research and Development and  
Science Advisor  
Environmental Protection Agency

OCT 24, 2016  
Date