

Space Weather Advisory Group

April 17, 2023

TO: Co-Chairs, White House Space Weather Operations, Research, and Mitigation (SWORM) Subcommittee:

Dr. Ezinne Uzo-Okoro,
Assistant Director for Space Policy, Office of Science and Technology Policy

Mr. Kenneth Graham,
Assistant Administrator for Weather Services, NOAA, and Director, National Weather Service

Ms. Mona Harrington,
Assistant Director, National Risk Management Center, CISA, DHS

SUBJECT: Transmittal of the Space Weather Advisory Group's report *Findings and Recommendations to Successfully Implement PROSWIFT and Transform the National Space Weather Enterprise*

Dear SWORM Co-Chairs:

On behalf of the Space Weather Advisory Group (SWAG), I am pleased to transmit to you the report *Findings and Recommendations to Successfully Implement PROSWIFT and Transform the National Space Weather Enterprise*. In October 2020, Congress passed the Promoting Research and Observations of Space Weather to Improve the Forecasting of Tomorrow (PROSWIFT) Act. SWAG was chartered, pursuant to PROSWIFT, to, among other things, advise SWORM on a variety of space weather issues including the development and implementation of an integrated strategy for space weather (i.e., the National Space Weather Strategy and Action Plan). In June 2022, SWORM advised SWAG that they were initiating an update to the National Space Weather Strategy and Action Plan and tasked SWAG to provide input. In response, SWAG members developed the attached report, which was informed by the 2015 and 2019 National Space Weather Strategies and Action Plans, the White Paper on the Implementation Status of the National Space Weather Strategy and Action Plan, and the Decadal Survey on Solar and Space Physics 2024-2033 white papers. The report was additionally informed by broader community input through SWAG—a statutory role of SWAG—which was collected through the January 2023 hybrid, open meeting that featured a series of speakers, panels, and inputs from the public.

SWORM has made significant progress over the last nine years to build awareness and move the Nation towards resilience to space weather through coordinating operations, research, and mitigation activities across the Federal executive branch. However, technology, infrastructure systems, and national priorities continue to evolve—with the space domain becoming increasingly important to national and economic security. Our report, *Findings and Recommendations to Successfully Implement PROSWIFT and Transform the National Space Weather Enterprise*, identifies the urgent need to adequately fund the space weather enterprise to address persisting risk from space weather and better meet the growing and changing needs of stakeholders. To this end, SWAG identified 25 findings with 56 recommendations which, if implemented, will provide the funding, processes, support, and structure to foster transformative change across the national space weather enterprise.

SWAG looks forward to engaging SWORM agencies and other relevant stakeholders on these findings and recommendations. To that end, SWAG requests that NOAA transmit this report to the appropriate congressional staff. SWAG looks forward to future engagement with SWORM and Congress on this report, as well as opportunities to monitor and assess SWORM's implementation progress. SWAG will seek to provide additional input on resilience-focused actions and other needs of end users in the forthcoming results of the user-needs surveys.

Respectfully,

A handwritten signature in black ink that reads "Tamara Dickinson". The signature is written in a cursive, flowing style.

Dr. Tamara Dickinson
SWAG Chair

Cc: SWORM Subcommittee
Rick Spinrad
Karen Hyun
Michael Weiss
Jennifer Meehan
SWAG

Attachment: *Findings and Recommendations to Successfully Implement PROSWIFT and Transform the National Space Weather Enterprise*

