



## SCIENCE ADVISORY BOARD

December 9, 2021

Dr. Richard W. Spinrad  
Under Secretary of Commerce for Oceans and  
Atmosphere & NOAA Administrator  
Herbert C. Hoover Building, Room 6811  
14th Street & Constitution Avenue, NW  
Washington, DC 20230

Dear Dr. Spinrad:

***Subject: Transmittal of the SAB Priorities for Weather Research Report***

On behalf of the NOAA Science Advisory Board (SAB), I am pleased to transmit to you the *Priorities for Weather Research Report*. In December 2020, through report language in the FY2021 Omnibus Appropriations Act Congress charged the National Oceanic and Atmospheric Administration (NOAA) Science Advisory Board (SAB) to publish a report that provides the information necessary to prioritize federal investments in weather research and forecasting over the next decade. In response, the SAB launched the Priorities for Weather Research (PWR) study, which, through a broad consultative process, engaged over 150 subject matter experts from across the Weather Enterprise to develop the report.

The PWR study identifies an urgent need to accelerate and increase investments across three interconnected pillars: Observations and Data Assimilation, Forecasting, and Information Delivery. These three pillars are supported by four cross-cutting foundational elements: science, computing, workforce development, and the Weather Enterprise. Between the pillars and foundational elements, the report identifies 11 priority areas, 33 recommendations, and 102 critical actions. When taken as a whole, the investments will be transformational, enabling NOAA and the Nation's weather services to meet accelerating weather, water and climate challenges, protect life and property, promote greater economic prosperity, and provide environmental justice for all.

The SAB greatly appreciated the opportunity to provide this advice to both Congress and NOAA. Because Congress requested this report, we ask that NOAA transmit this report to the appropriate Congressional staff. We look forward to future engagement by Congress and NOAA on this report as well as opportunities to monitor and assess NOAA's progress as the agency moves into implementation.

Very Respectfully,

A handwritten signature in blue ink that reads "John R. Kreider". The signature is fluid and cursive, with the first name "John" being the most prominent.

John R. Kreider  
SAB Chair

Attachment: Priorities for Weather Research Report