



RESEARCH

NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION

OAR Portfolios

PSL Lab Review

November 16-20, 2020





History & Purpose of OAR's Portfolios



Office of Oceanic & Atmospheric Research Delegations & Directives

CIRCULAR NUMBER: 222.1

EFFECTIVE: January 1, 2016

Subject: Appointment of the Office of Oceanic and Atmospheric Research Portfolio Stewards

Section 1. Introduction.

The Office of Oceanic and Atmospheric Research (OAR) seeks to improve its performance and reputation for mission-oriented support by bringing focus to its internal communication, coordination and collaboration across each of the mission areas of the National Oceanic and Atmospheric Administration (NOAA) Strategic Plan. To date, efforts have produced rewards in our budget and expanded partnerships within and beyond NOAA, including with the academic community, our constituents, and the private sector.

To enhance and expand upon this success, the OAR Assistant Administrator (AA) is appointing three Portfolio Stewards, beginning January 1, 2016, to serve as knowledgeable, experienced, and engaged coordinators to guide collaborative activities in the Climate, Weather, and Oceans/Coasts/Great Lakes portfolios in OAR. The purpose of the Portfolio Steward position is to enhance the communication, coordination, and collaboration across OAR, and to serve as a Point of Contact between OAR and other NOAA Line and Staff Organizations, and with partners in other federal agencies, academia, the private sector, and internationally at the peer level in order to achieve improved efficiency and awareness in mission performance.

Section 2. Roles and Responsibilities of Portfolio Stewards.

Specifically, the OAR Portfolio Stewards will:

- .01 Maintain a contemporary awareness of the programmatic, research, and service portfolio activities within the domain of the NOAA Strategic Plan Goal for which they are responsible, including alignment with the Department of Commerce (DOC) strategic goals/objectives, and the OAR strategic plan.
- .02 Engage with program Stewards or positions of similar responsibility within OAR and in other Line Organizations to assess, coordinate, and address, as feasible, the research and service needs of other mission areas of NOAA that can benefit from OAR science and contributions of effort.
- .03 Serve as a Point of Contact for communication, coordination and collaboration with appropriate entities outside of NOAA in advancing and executing the portfolios in service to NOAA and DOC mission goals.



The Portfolios were established by OAR Circular 222.1 in 2016.

This Circular was revised in 2020.

The purpose of the OAR Portfolios is to enhance communication, coordination, and collaboration across OAR.





Overview of OAR's 3 Portfolios



Climate Portfolio

Portfolio Steward - Wayne Higgins

Portfolio Advisor - Neil Christerson (A)



Oceans Portfolio

Portfolio Steward - David Legler

Portfolio Advisor - Liz Tirpak

Provides support to all three Portfolios

Portfolio Analyst - Katie Robinson

Portfolio Analyst - Vacant

Portfolio Admin. Support - Vacant



Weather Portfolio

*Portfolio Steward - Ko Barrett**

Portfolio Advisor - Kathryn Mozer

** John Cortinas is fulfilling the duties of the Weather Portfolio Steward on Ko's behalf*





Portfolio's Focus



The OAR Climate Portfolio focuses on long-term observations, research to advance understanding, and modeling to improve predictions of our Earth system.



The OAR Weather Portfolio focuses on improving understanding and forecasting capabilities for near-term (minutes to 2 years) high-impact weather events that endanger lives and property.



The OAR Ocean Portfolio focuses on improving understanding of habitats, processes, and resources in the oceanic, coastal, and Great Lakes environments.



PSL is a member of the Climate and Weather Portfolios

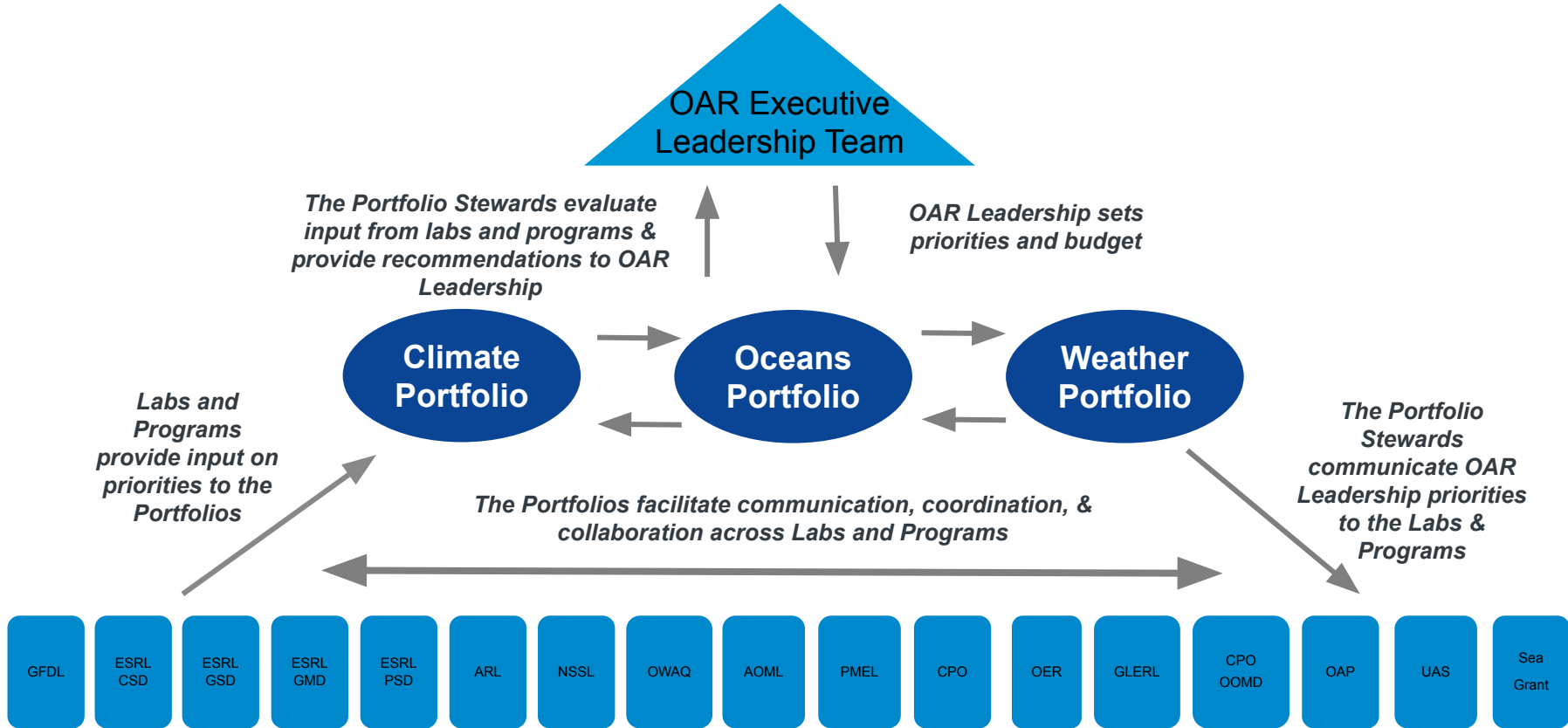


Portfolio & Portfolio Membership is determined by Program, Project, or Activity (PPA) funding





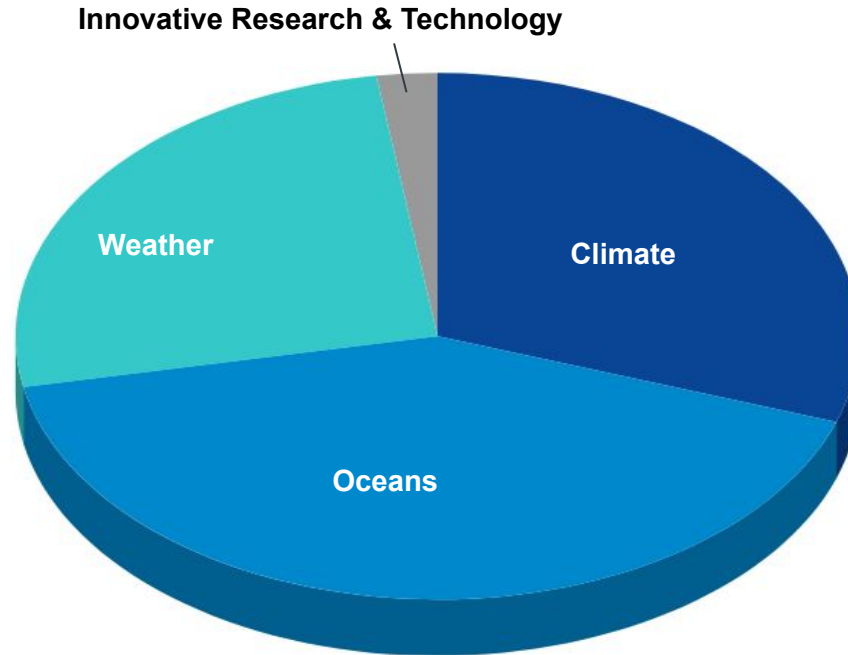
How the Portfolios Work



Facilitating effective budget planning and execution



OAR FY20 Budget





PSL's Alignment with the Portfolios



Lead field campaigns to improve weather, water, and climate predictions

- *PSL serves as a leader for national and international field programs to observe and understand the behavior of the atmosphere over land, oceans, ice, and snow. Recent campaigns include the Atlantic Tradewind Ocean–Atmosphere Mesoscale Interaction Campaign (ATOMIC) to advance understanding of U.S. weather and climate; Multidisciplinary Drifting Observatory for the Study of Arctic Climate (MOSAIC) to study the Arctic's physical, chemical, and biological processes; and the El Niño Rapid Response (ENRR) to understand the impacts of El Niño on the U.S.*



Communicate and provide decision support services for water management

- *Through enhancing targeted observations, improving precipitation and streamflow predictions, and advancing modeling capabilities, PSL develops forecasts for hydrologic extremes (too much or too little water) which are essential to effectively managing water resources. These developments are critical for a number of sectors, including: agriculture, water supply, energy, water security, and public safety.*



Reduce vulnerability to extreme events

- *PSL studies the physical processes underlying extreme events, short-term climate variations and long-term trends to improve the skill and reliability of weather forecasts and climate predictions. By identifying the causes of extremes as well as the conditions under which droughts, heat waves, and floods are predictable, PSL seeks to provide timely, accurate information to decision makers, enabling informed decisions on how society should invest in critical infrastructure in risk-prone areas while ensuring resilience.*





Looking to the Future

The Portfolios are in the process of identifying Portfolio priorities for FY21 that include:

- *Boundary Layer Research*
- *Precipitation Prediction Grand Challenge*
- *Climate and Fisheries*
- *Ocean and Atmosphere Interactions*
- *Arctic*
- *Socioeconomic Valuation Work*
- *Integration of Social Science*

The Portfolios will also play a role in facilitating the implementation of OAR and NOAA priorities.

- *Goals of the OAR Strategy 2020-2026:*
 - (1) *Explore the Marine Environment*
 - (2) *Detect Changes in the Ocean & Atmosphere*
 - (3) *Make Forecasts Better*
 - (4) *Drive Innovative Science*
- *NOAA R&D Vision Areas 2020-2026:*
 - (1) *Reducing societal impacts from severe weather and other environmental phenomena*
 - (2) *Sustainable use and stewardship of ocean and coastal resources*
 - (3) *A robust and effective research, development, and transition enterprise*



Questions?

