



Overview of NOAA Research and Context for the CPO Review

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Office of Oceanic & Atmospheric Research

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NOAA Mission



NOAA's Mission: Science, Service and Stewardship:

1. To understand and predict changes in climate, weather, oceans and coasts;
2. To share that knowledge and information with others; and
3. To conserve and manage coastal and marine ecosystems and resources.

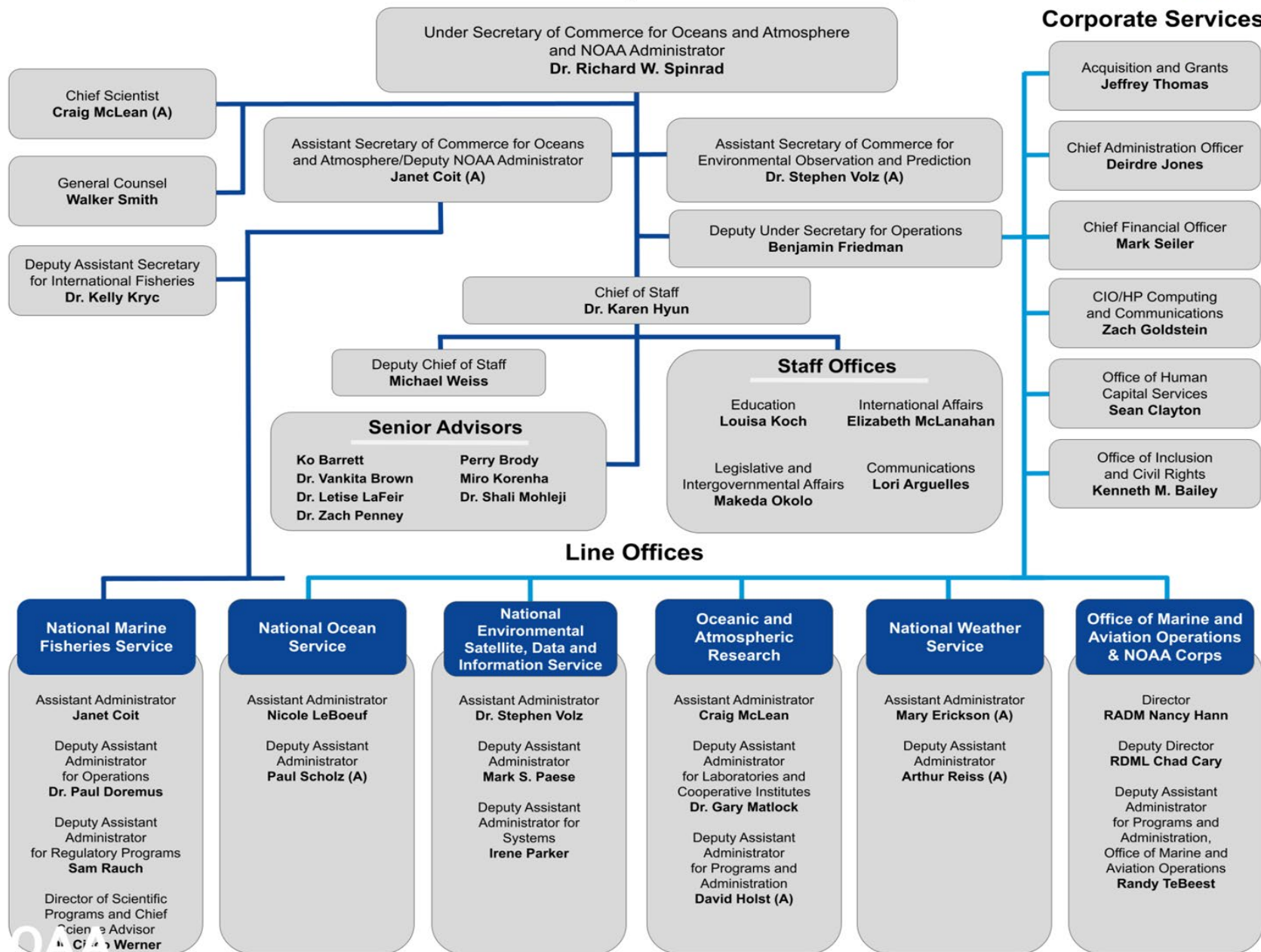




(PDO) = Performing the Duties of
(A) = Acting

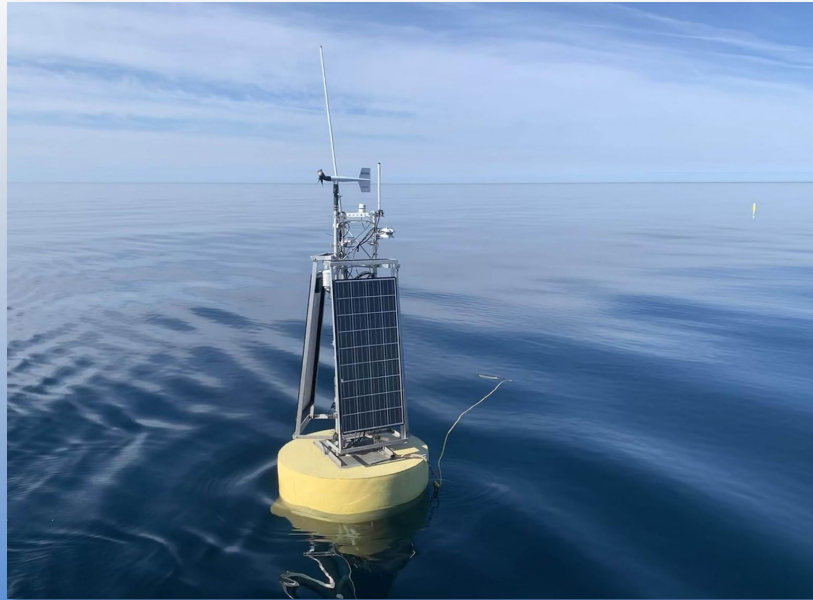
NOAA Headquarters Organization

Office of the Under Secretary for Oceans and Atmosphere





NOAA's Office of Oceanic and Atmospheric Research (OAR)



Deliver NOAA's Future

VISION



Conduct research to understand and predict the Earth system; develop technology to improve NOAA science, service, and stewardship; and transition the results so they are useful to society.

MISSION





OAR Organizational Chart



Assistant Administrator
Oceanic & Atmospheric Administration
Cisco Werner (A)

Deputy Assistant Administrator
Programs & Administration
Emily Menashes

Deputy Assistant Administrator
Science
Dr. Gary Matlock

HQ STAFF OFFICES

- Chief Financial Officer & Chief Administrative Officer
David Holst
- EEO/Diversity
Nicole Mason
- International Activities
Monique Baskin (A)
- Communications
Michael Murphy
- Policy, Planning & Evaluation

PROGRAMS

Climate Program Office Dr. Wayne Higgins	Global Ocean Monitoring & Observing Program Dr. David Legler
National Sea Grant College Program Dr. Jonathan Pennock	Ocean Acidification Program Dr. Libby Jewett
Weather Program Office Dr. Dorothy Koch	Office of Ocean Exploration & Research Jeremy Weirich

LABORATORIES

Air Resources Laboratory Vacant	Atlantic Oceanographic & Meteorological Laboratory Dr. John Cortinas
Chemical Sciences Laboratory Dr. David Fahey	Global Monitoring Laboratory Dr. Ariel Stein
Earth Systems Research Laboratories	
Global Systems Laboratory Jennifer Mahoney	Physical Sciences Laboratory Dr. Robert Webb
Great Lakes Environmental Research Laboratory Deborah Lee	Geophysical Fluid Dynamics Laboratory Dr. Venkatachalam Ramaswamy
National Severe Storms Laboratory Dr. Jack Kain	Pacific Marine & Environmental Laboratory Dr. Michelle McClure

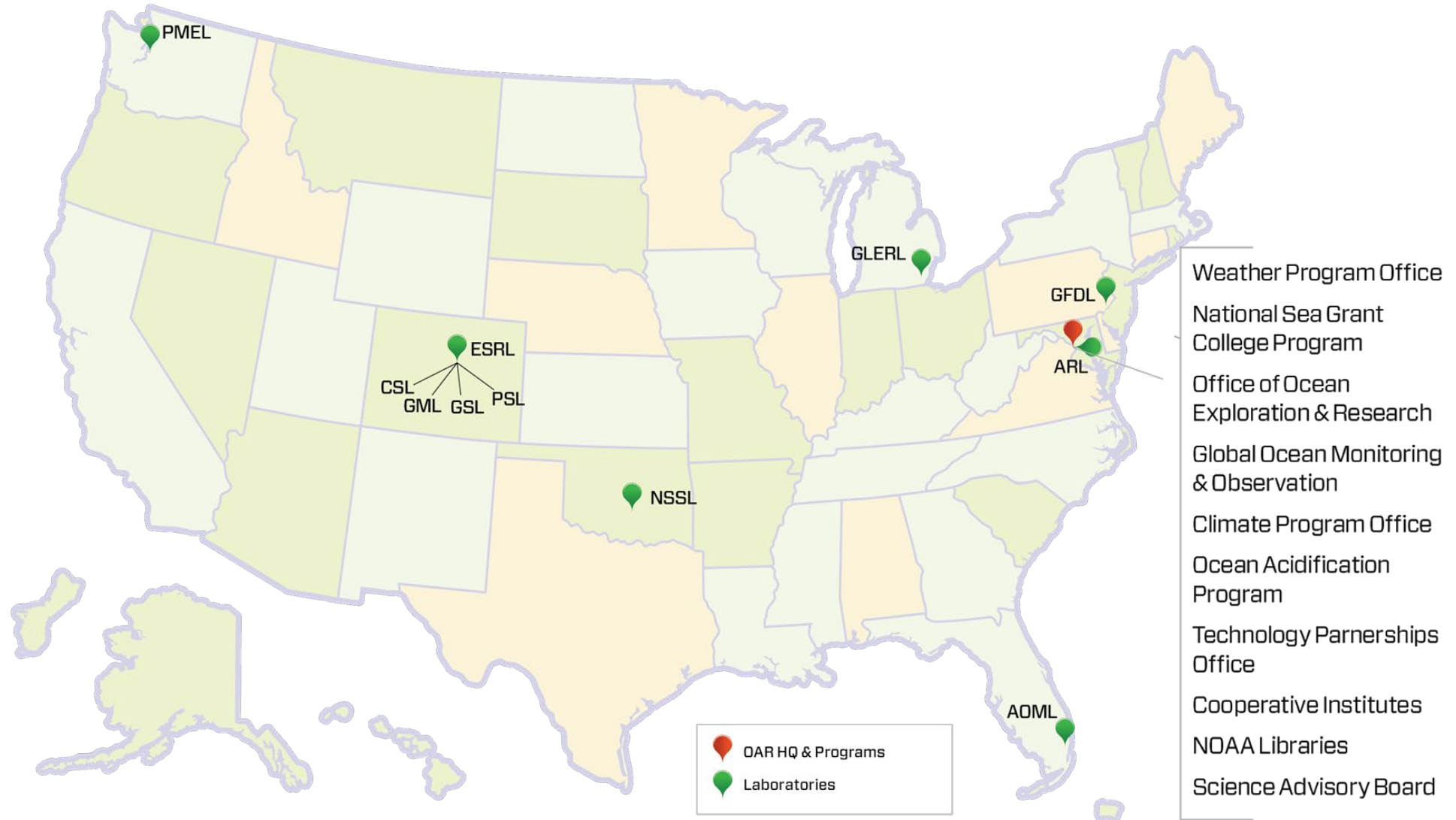
HQ OFFICES

- IT Management Office/Assistant CIO for Research
Jeremy Warren
- Office of Science Support**
Dr. Terence Lynch
 - Cooperative Institutes
Shannon Louie
 - NOAA Central & Regional Libraries
Deirdre Clarkin
 - Science Advisory Board
Dr. Cynthia Decker
- Office of Research, Transition, & Application**
Dr. Fiona Horsfall
 - Uncrewed Systems Research Transitions Office
Vacant
 - Technology Partnerships Office
Kelly Wright





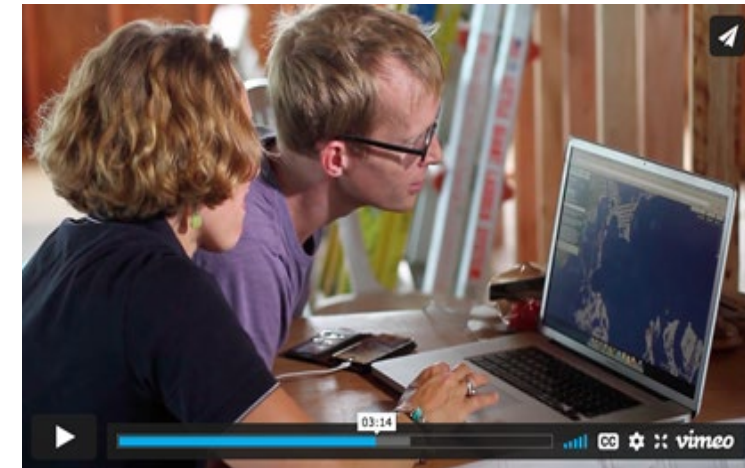
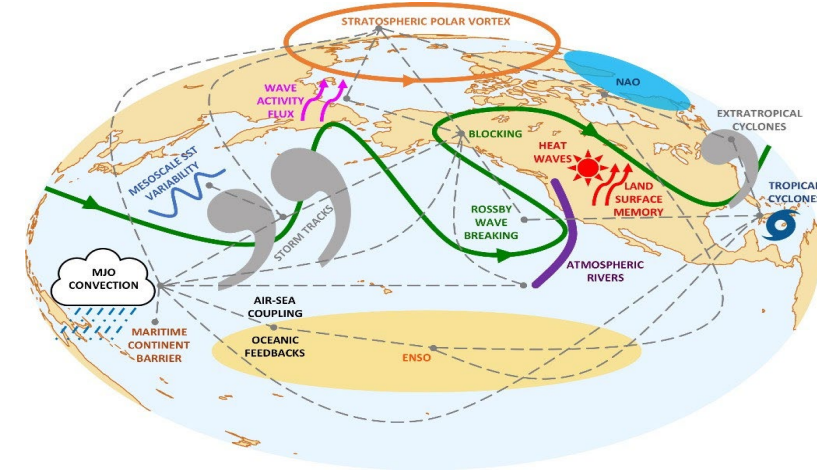
OAR Labs and Programs





Climate Program Office (CPO)

- CPO advances understanding, modeling, prediction, and projection of the Earth's atmosphere, ocean, land, and cryosphere as an integrated system
- CPO supports societally relevant and interdisciplinary climate science focused on adaptation to reduce vulnerability and risk
- CPO promotes public climate literacy and helps people find and use NOAA's maps, data, and information services through managing and maintaining Climate.gov
- CPO is home to two interagency-driven Integrated Information Systems (NIDIS and NIHHIS) that are responsive to the increasing societal demand for climate information that is actionable, accessible, and equitable





CPO Leadership

Dr. Wayne Higgins CPO Director

Dr. Higgins has served in this position since July 2013. He also serves as the Chair of the U.S. Global Change Research Programs Subcommittee on Global Change Research. Prior to this appointment, Dr. Higgins served as the Acting Director of the National Centers for Environmental Prediction in 2013 and as the Director of the Climate Prediction Center from 2007-2013, both within NOAA's National Weather Service.



Ben DeAngelo CPO Deputy Director

Served in this position since May 2017. Serves as NOAA Principal to USGCRP and Chair of Arctic Monitoring & Assessment Program under Arctic Council. Was climate advisor at White House Office of Science & Technology Policy and Deputy of USGCRP, 2015-2016. Worked at EPA 1997-2015.





NAO 216-115A: RESEARCH AND DEVELOPMENT IN NOAA

Issued 10/3/2016; Effective 10/3/2016; Last Reviewed: 11/27/2018

Attachments

- >> [View NAO 216-115A](#)
- >> [Handbook](#)

SECTION 1. PURPOSE

.01 As a science-based services agency, The National Oceanic and Atmospheric Administration (NOAA) maintains a robust, high quality research and development (R&D) portfolio that continually improves NOAA's products and services in response to:

1. Growing demand for new and improved services;
2. Changes in NOAA's mission needs in response to evolving environmental conditions or directives from the Legislative, Judicial and Executive branches;
3. Emerging understanding of the dynamic Earth system and its ecosystems;
4. Innovations in R&D methods, tools and approaches; and
5. NOAA's role in cooperative environmental research and management efforts.



Office of Oceanic & Atmospheric Research Delegations & Directives

CIRCULAR NUMBER: 216-3

Effective: March 10, 2021

SUBJECT: OAR Laboratory and Program Science Evaluations

SECTION 1. PURPOSE

This policy establishes the authorities and responsibilities for managing regular and recurring science evaluations of the quality, relevance, and performance of individual programs and laboratories to evaluate their success in achieving intended outcomes through research, development, and transition activities conducted by and through National Oceanic and Atmospheric Administration's (NOAA) Office of Oceanic and Atmospheric Research (OAR) laboratories and programs.

SECTION 2. BACKGROUND

This policy supersedes OAR 001.07, dated July 23, 2007 and OAR 216-3, dated March 27, 2015. This policy has been updated to revise roles and responsibilities to conform to current OAR organizational structure. It complies with the requirements of NOAA Administrative Order (NAO) 216-115A, "Research and Development in NOAA," as well as the OAR mission and goals articulated in the OAR Strategy. OAR is the primary research and development (R&D) organization within NOAA. As articulated in OAR's Strategy, its mission is "to conduct

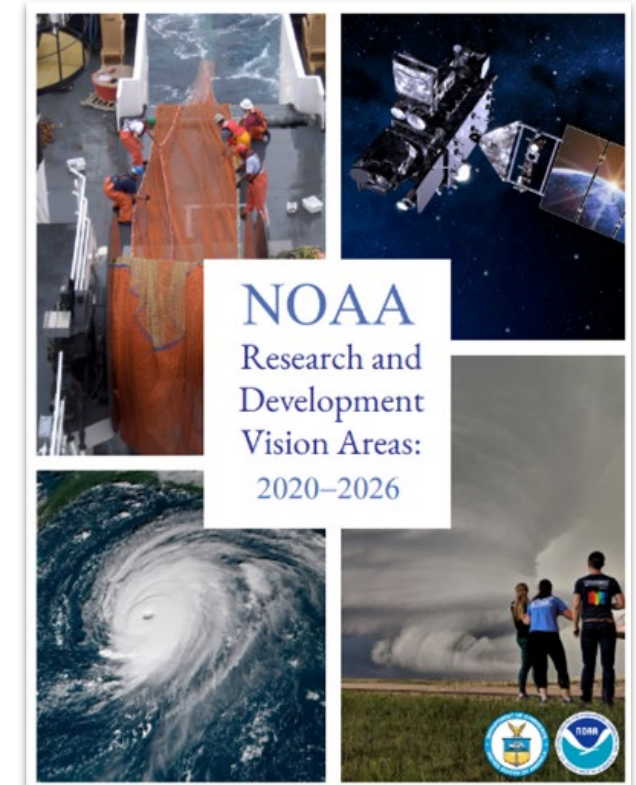
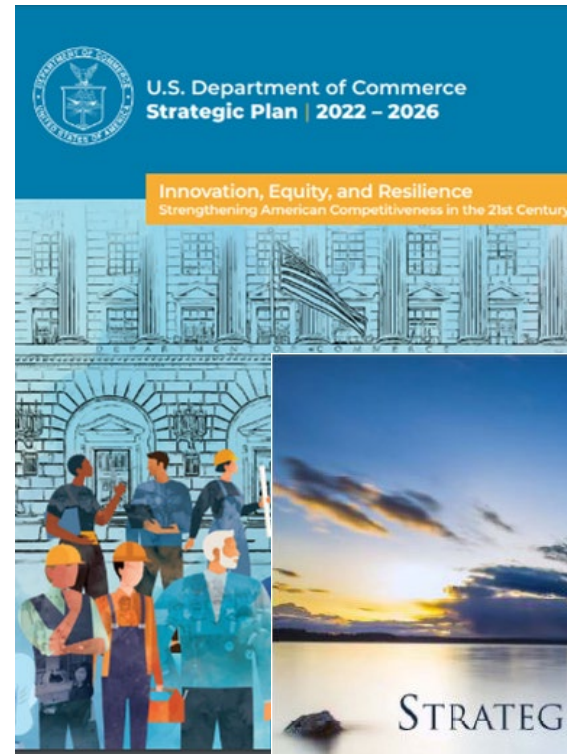
NOAA NAO 216-115A establishes the principles, policies, and responsibilities by which Research and Development (R&D) throughout NOAA can be continually reviewed, evaluated and rebalanced in light of evolving mission needs.

OAR CIRCULAR NUMBER: 216-3 establishes the authorities and responsibilities for managing regular and recurring science reviews.





Strategic Documents





Why Are You Here?

- OAR Laboratory and Program reviews are conducted every 5 years.
- Reviewers are charged to evaluate the quality, relevance, and performance of research.
- The review strategically positions the labs and programs in planning for future research and development.
- The review intends to ensure that research is linked to the NOAA strategic plan, mission, and priorities.





How Does OAR Define Success?

Three Evaluation Criteria:

1. **Quality** is a measure of the novelty, soundness, accuracy, and reproducibility of a specific body of research. Indicators include publications, technology development, data contributions, and awards.
2. **Relevance** is a measure of how well a specific body of research supports NOAA's mission and the needs of users and the broader society.
3. **Performance** is a measure of effectiveness and efficiency. It includes an assessment of the organization's leadership, management, operations, workforce, organizational culture, strategic planning, progress towards performance targets and milestones, efficiency in resource utilization, and transition of research to operations.





How OAR Uses Reviews

- Evaluate quality, relevance, and performance of research
- Develop and implement recommendations to make improvements
- Maintain consistency with NOAA strategic planning, budgeting & execution
- Assist labs and programs in strategically planning future science
- Identify common themes and priorities so that OAR can determine mechanisms, policies or actions to address corporately





Thank You!

