

NOAA and OAR Approaches to Research Planning



Earth System Research Laboratory

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Office of Oceanic & Atmospheric Research (OAR)
National Oceanic & Atmospheric Administration (NOAA)**



OAR Science Reviews

- Conducted every four years to evaluate the quality, relevance, and performance of research and development in OAR labs
 - ESRL Chemical Sciences was reviewed January 2008
- Assist in strategically positioning the lab for planning future science
- Intended to ensure that research is preeminent and linked to the NOAA Strategic Plan
- The Review Panel is asked to evaluate each science area based on specific questions within the Charge to the Review Panel





Oceanic & Atmospheric Research

Vision

A society that uses the results of our research as the scientific basis for more productive and harmonious relationships between humans and the environment.*



Mission

To conduct environmental research, provide scientific information and research leadership, and transfer research into products and services to help NOAA meet the evolving economic, social, and environmental needs of the Nation.*

*From OAR Strategic Plan (2005-2010)





NOAA's Organization

CORPORATE FUNCTIONS

Under Secretary of Commerce for Oceans & Atmosphere & Administrator
Dr. Jane Lubchenco

Assistant Secretary of Commerce for Oceans & Atmosphere and Deputy Administrator
Vacant

Deputy Under Secretary for Oceans & Atmosphere
Mary M. Glackin

Chief of Staff
Margaret Spring



NOAA ORGANIZATION

Deputy Assistant Secretary for International Affairs
Dr. James M. Turner

Deputy Assistant Secretary for Oceans & Atmosphere
Vacant

Deputy Chief of Staff
Jeff Payne (A)

Office of Decision Coordination & Executive Secretariat
Kelly Quickle

Program Coordination Office
Jeff Payne (A)

Office of Military Affairs
**LT Col David Miller, USAF
CAPT Mike Angove, USN**

General Counsel
Lois Schiffer

Legislative Affairs
John Gray

Communications
Justin Kenney

Workforce Management
Eduardo Ribas

Education
Louisa Koch

Chief Information Officer/High Perf. Computing & Comm.
Joe Klimavicz

Program Analysis & Evaluation
Stephen D. Austin

Chief Administrative Officer
William Broglie

Chief Financial Officer
Maureen Wylie

Federal Coordinator for Meteorology
Sam Williamson

Acquisition & Grants
Mitchell J. Ross

Marine & Aviation Operations
RADM Jonathan W. Bailey

LINE OFFICES

Assistant Administrator
Oceanic & Atmospheric Research (OAR)
Dr. Rick Spinrad

Assistant Administrator
National Ocean Service (NOS)
David Kennedy (A)

Assistant Administrator
National Environmental Satellite, Data & Information Service (NESDIS)
Mary Kicza

Assistant Administrator
National Marine Fisheries Service (NMFS)
Dr. Jim Balsiger (A)

Assistant Administrator
National Weather Service (NWS)
Dr. Jack Hayes

Assistant Administrator
Program Planning & Integration (PPI)
Laura Furgione

MISSION GOALS

Ecosystem
Dr. Steve Murawski

Climate
Dr. Chet Koblinsky

Weather & Water
Edward Johnson (A)

Commerce & Transportation
Ashley Chappell (A)

MISSION SUPPORT

Satellite Services
Michael Crison

Modeling & Observing Infrastructure
Kenneth McDonald

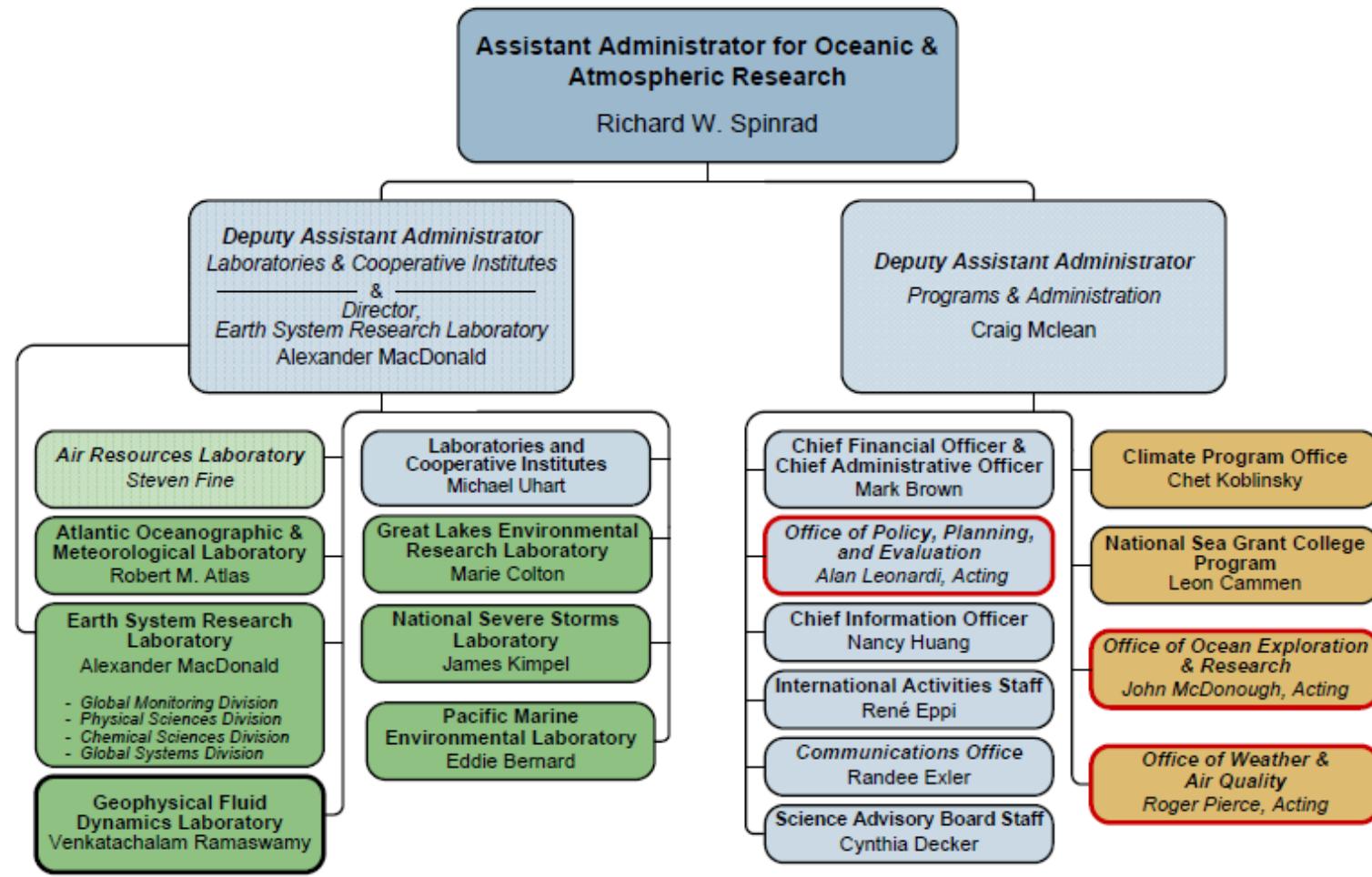
Fleet Services
Tajr Hull

Leadership & Corporate Services
William Broglie





OAR Organization

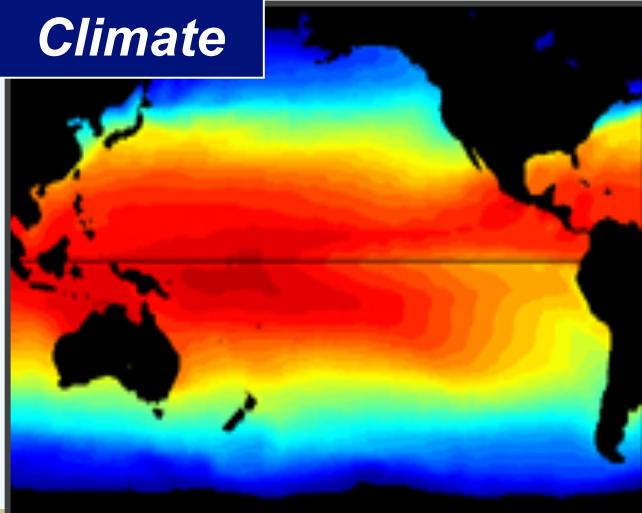




NOAA's Mission Goals



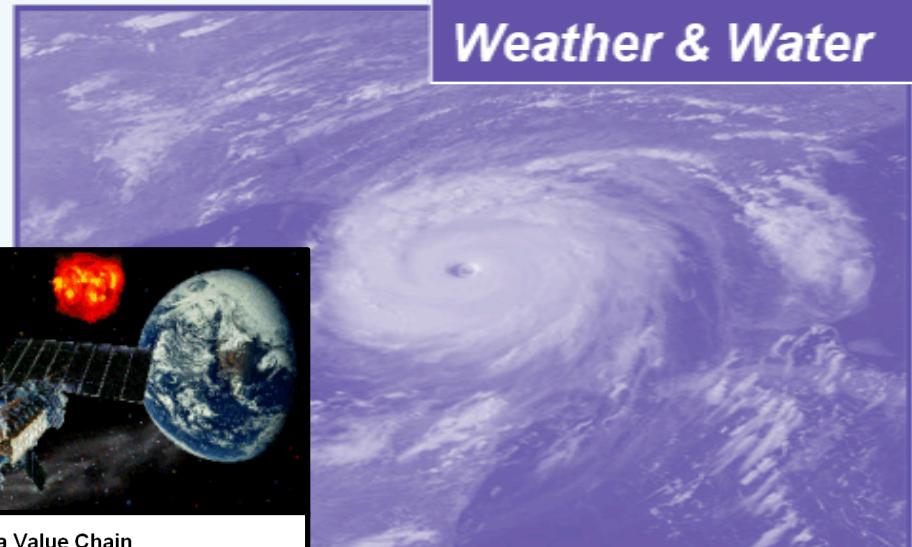
Climate



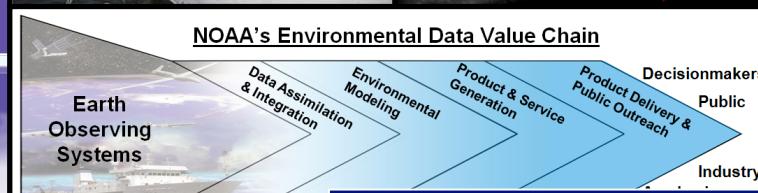
Commerce & Transportation



NOAA's Mission Goals

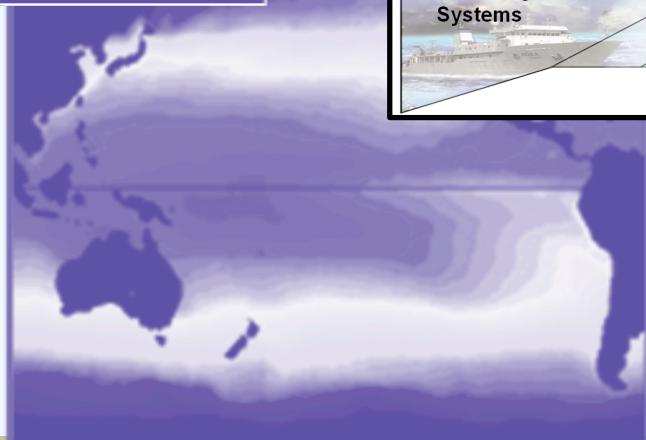


NOAA's Environmental Data Value Chain



Climate

Mission Support





NOAA Strategic Plan: (FY 09-14)

- NOAA's 5 mission goals were derived from stakeholder input and internal assessments of our mandates and mission.
- For each mission goal, the Strategic Plan lists the relevant:
 - Performance to date
 - Programs
 - Outcomes and Objectives
- NOAA's Next Generation Strategic Plan is expected in mid-2010
- NOAA's research enterprise develops the understanding required for each goal to achieve its mission and associated outcomes in the Strategic Plan





NOAA Strategic Plan: Climate

Outcomes

- A predictive understanding of the global climate system...
- Use of NOAA's climate products by climate-sensitive sectors and... the public

Objectives

- Describe and understand the state of the climate system...
- Understand and predict climate variability and change...
- Improve the ability of society to plan for and respond to climate variability and change





NOAA Strategic Plan: Weather & Water

Outcomes

- Reduced loss of life, injury, and damage...
- Better, quicker, and more valuable weather and water information to support improved decisions

Objectives

- Increase lead-time and accuracy for ... warning and forecasts
- Improve predictability of ... hazardous and severe W&W events
- Increase application and accessibility of W&W information...
- Increase development, application and transition of [research] to operations
- Integrate ... observation systems... to increase collaborations...
- Reduce uncertainty associated with W&W forecasts and warnings



Drivers for NOAA Research

Policy Drivers

- NOAA Strategic Plan (FY 09-14)
- United States Global Change Research Program (USGCRP)
- Next Generation Air Transportation System
- NOAA 5-Year Research Plan
- NOAA 20-Year Research Vision

Legislative Drivers

- National Integrated Drought Information System (NIDIS)
- National Climate Program Act (NCPA)
- Global Change Research Act (GCRA)
- America COMPETES Act





NOAA 5-Yr Research Plan (FY 08-12)

- Emphasizes the integration of the observational, experimental, analytical, and modeling tools that are the core of NOAA's research
 - Identifies specific research milestones and objectives to reach our Strategic Plan Goals and Objectives,
 - Encourages transformational research, and
 - Based on societal needs





NOAA 5-Yr Research Plan Development

- Developed by NOAA Research Council
 - Input from NOAA line offices and mission goals, external partners, along with public commentary
- New Research Plan development: Science Workshop (March) and Science Conference (summer)





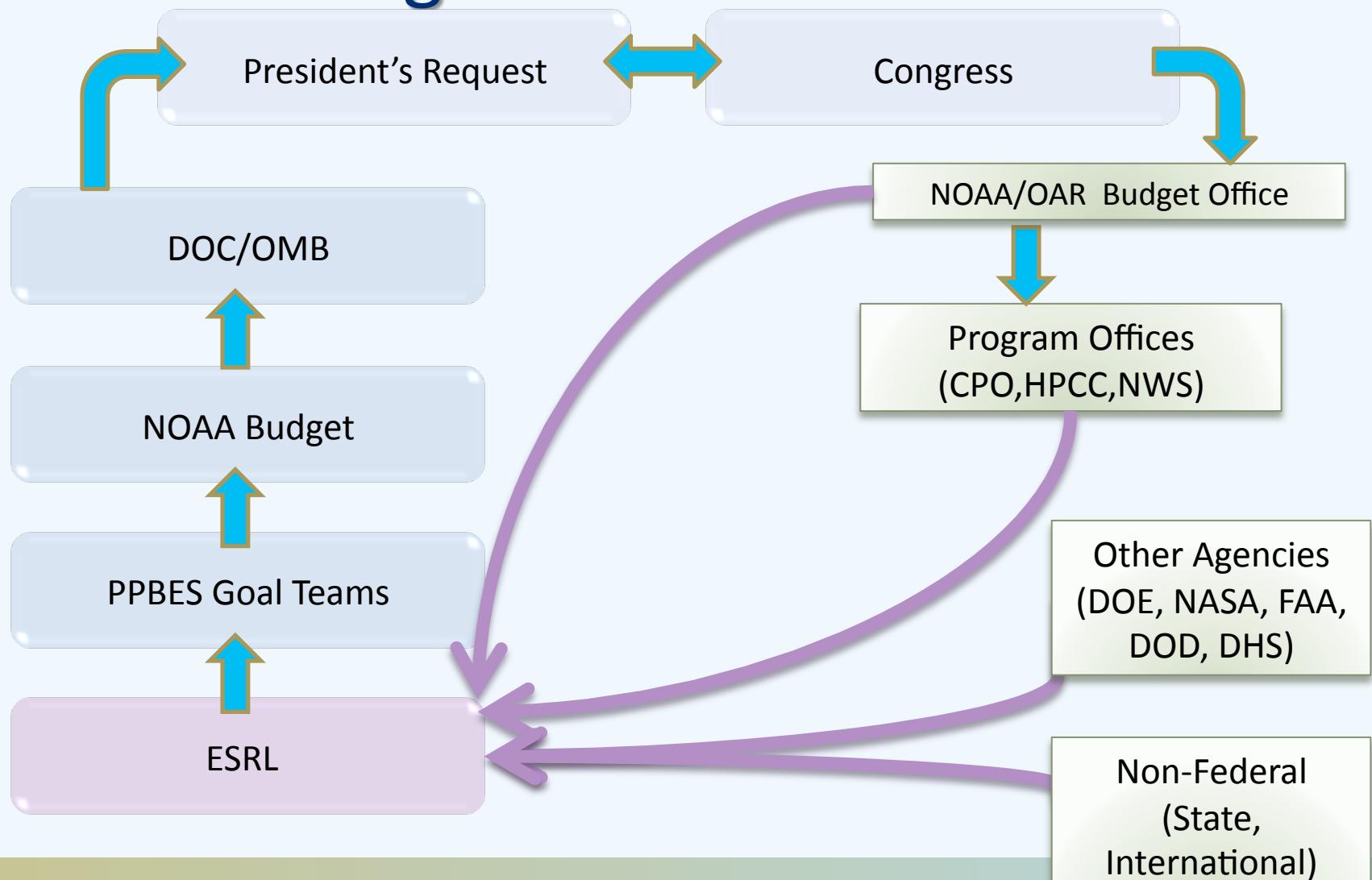
NOAA 5-Yr Research Plan: Overarching Research Questions

- What factors influence ecosystem processes and ... forecasts [of] their future state?
- What are the causes and consequences of climate variability and change?
- What improvements to observing systems, analysis approaches and models will allow [lead] us to better predict[ions] ...?
- How are uncertainties ... best estimated and communicated?
- How can the ... warning times for ... high-impact environmental events be increased significantly?





The Funding Process





NOAA Research Tenets

**Preeminent Research
Value to Society
Culture of Transparency**

