NOAA OAR

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

OFFICE OF OCEANIC AND ATMOSPHERIC RESEARCH

NOAA's Office of Oceanic and Atmospheric Research (OAR) **strengthens the science** that is the foundation of all NOAA products and services. Whether improving warning lead times for tornadoes and hurricanes or understanding the response of ecosystems in a rapidly changing environment, **OAR's preeminent research saves lives, improves management of natural resources, builds understanding of the Earth-system, and strengthens the economy.**

> "All parts of NOAA benefit from OAR's work **to incubate fundamentally new approaches to mission-centered science**, a capability best sustained by maintaining **a nimble, freestanding OAR line office**."
>
> *National Academy of Public Administration (2010)*

innovate • incubate • integrate

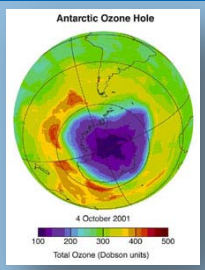
OAR is NOAA's long-term research hub: **innovating**, **incubating**, and **integrating** research along with our partners inside and outside of NOAA. For example, NOAA's climate science enterprise started in OAR as part of its atmospheric science program and has matured to the point where it is ready to inform an operational climate service.

OAR takes a **holistic look** at NOAA's research portfolio to identify approaches to address NOAA's science challenges and gaps and integrate research across NOAA's Line Offices to gain a comprehensive understanding of the Earth system.

A greater focus on *transformative research*

Tsunami DART ® buoys implemented worldwide

Radar and weather research improved tornado lead times from less than 5 minutes prior to NEXRAD to 13 minutes



Research to understand ozone hole led to Montreal Protocol

www.research.noaa.gov

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OFFICE OF OCEANIC AND ATMOSPHERIC RESEARCH

NOAA-WIDE ROLE

Create a strong, centralized research capability in NOAA that results in new knowledge and technologies and improved services for the Nation

- OAR's Assistant Administrator, as a career federal executive, will be designated as the **Senior Advisor to the NOAA Chief Scientist** and will provide high level science program and policy analysis to the NOAA Chief Scientist.
- OAR will be an **integrator of research activities** across NOAA.
- OAR **strengthens science** across NOAA.





OAR – NOAA's long-term *visionary and innovation engine*

SELECT OAR RESEARCH PRIORITY AREAS

Next-generation forecasts

Hurricane Forecast Improvement Program (**HFIP**)
Multi-function Phased Array Radar (**MPAR**)
Aviation weather

Ecosystem understanding

Ocean acidification monitoring and research
Ocean exploration and research
Fisheries tools and applications

Earth system modeling

Integrated Earth-system **prediction capabilities**
Integrated ecosystems-stock assessment modeling

OAR BUDGET

Select FY 2012 highlights:

- $6.0 M for Multi-function Phased Array Radar (MPAR)
- $6.1 for ocean acidification program
- $1.5 for *Okeanos Explorer* research and telepresence technology

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