



# OCEANIC & ATMOSPHERIC RESEARCH

## FY 2013 BUDGET HIGHLIGHTS

The Office of Oceanic & Atmospheric Research (OAR) requests \$413.8M in FY 2013, reflecting a net increase of \$29.1M from the FY 2012 Estimate. The FY 2013 President's Budget request supports OAR's continuing and vital role at the core of NOAA's research enterprise. OAR provides the Nation with atmospheric, oceanic, and Great Lakes research, technology development, and related services that support informed environmental decision-making and promote healthy, productive and resilient ecosystems, communities, and economies.

**Earth System Modeling for Urgent Climate Issues +\$8.0M:** will enable continued development and use of state-of-the-art Earth System Models to address urgent climate issues, including sea level rise and Arctic climate change. Funding will support researchers and extramural grants.

**Assessment Services +\$2.6M:** will support a permanent capability to produce climate assessments at national and regional scales. Periodic climate assessments are essential to ongoing efforts to understand what climate change means for the United States and what services are necessary to allow for informed decision-making.

**Global Ocean Observing System (GOOS) +\$4.6M:** will allow progress in critical ocean observations and analysis, Arctic monitoring, and more comprehensive deep ocean monitoring. These observations serve as the foundation for understanding and forecasting Earth's climate system, enabling real-time monitoring of ever-changing ocean conditions and seasonal-to-decadal climate forecasts and analyses for societal applications.

**Climate Science on the Global Carbon Cycle, Aerosols, and Atmospheric Chemistry to Improve Climate Models and Predictions +\$6.5M:** will support NOAA, in collaboration with its academic partners including Cooperative Institutes, in advancing the understanding of the global carbon cycle and the role of aerosols and chemically active greenhouse gases

### OAR FY 2013 Budget Request (\$ Millions)

	FY 2011 Enacted	FY 2012 Estimate	FY 2013 Request	FY 2013 Request vs. FY 2012 Estimate
<b>ORF</b>	<b>\$416.6</b>	<b>\$374.4</b>	<b>\$403.4</b>	<b>\$29.0</b>
<b>PAC</b>	<b>\$10.4</b>	<b>\$10.3</b>	<b>\$10.4</b>	<b>\$0.1</b>
<b>TOTAL</b>	<b>\$427.0</b>	<b>\$384.7</b>	<b>\$413.8</b>	<b>\$29.1</b>

in the global climate system. This knowledge will allow decision-makers to make more informed decisions on adaptation strategies.

**Regional Integrated Sciences and Assessments (RISA) +\$3.1M:** will expand capability for regional research and information services. In FY 2013, NOAA will increase its support of external research teams who work with resource managers and planners to develop and utilize new information about the impacts of climate on communities, natural and managed resources, infrastructure, transportation, and health.

**Great Lakes Environmental Research Laboratory (GLERL) -\$1.7M:** While the science conducted at GLERL is extremely important to NOAA, EPA has the preponderance of the mission in the region, and has greater overall investment under its Clean Water Act mandates. Even at the reduced level, NOAA will continue to provide research services in the Great Lakes such as forecasts of toxic harmful algal blooms; forecasts of wind, waves, fog, ice, and channel depths, and forecasts of rip currents and pathogen delivery to beaches.

**National Undersea Research Program -\$4.0M:** NOAA determined that NURP was a lower-priority function within its portfolio of research activities, particularly given that other avenues of Federal funding for such activities might be pursued. NOAA will continue to support the Ocean Exploration program.



NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION