



# FY2006 Budget Highlights



## OFFICE OF OCEANIC AND ATMOSPHERIC RESEARCH

NOAA's Office of Oceanic and Atmospheric Research (OAR), also known as "NOAA Research," requests \$372.2 million in FY 2006, reflecting a net increase of +\$25.1M over its FY 2006 base level. This budget request supports research advancements in Climate Monitoring and Prediction, Weather and Air Quality Forecasting, and Ecosystem Management.

### FY 2006 Program Changes

**Ocean Observations for Climate +\$3.5M:** Funds will be used to continue building and maintaining a global ocean observing system that will document climate-scale changes in ocean heat, carbon, and sea level. This request is part of a multi-year, phased implementation to achieve 99% completion by FY 2009.

**Tropical Buoy Expansion +\$3.2M:** Funds will be used for the Tropical Atmosphere Ocean (TAO) and Pilot Research Moored Array in the Tropical Atlantic (PIRATA) arrays, including expansion of the TAO array into the Indian Ocean, system enhancements, and technology development for higher quality ocean measurements for improved forecast capability.

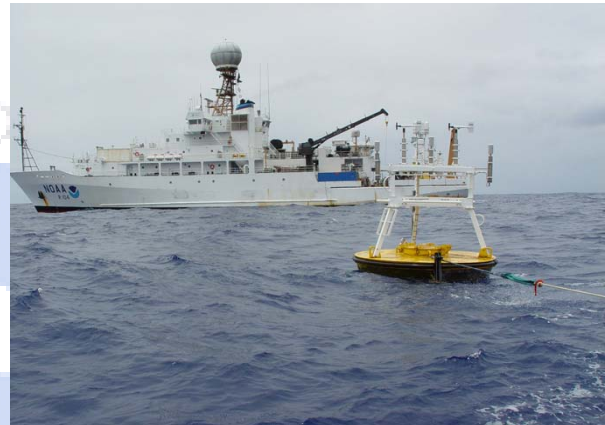
**Aerosols, Clouds, and Climate Change +\$2.1M:** Funds will be used for a multi-year initiative of observation and modeling to improve predictive understanding of how aerosol-cloud interactions influence climate.

**Regional Integrated Science Assessment Program +\$0.8M:** Funds will be used for a multi-year effort to strengthen research in a program that supports eight integrated regional research teams addressing complex climate sensitive issues relevant to decision-makers. This increase will help link climate research and information to decision-making processes in regions not currently supported by the program.

**Explaining Climate Conditions to Improve Predictions +\$2.0M:** Funds will be used to develop new climate reanalysis data sets and the capability to deliver explanations of the causes for observed climate variability and change. This increase will provide for enhanced climate prediction capabilities that will enable regional and national decision makers and resource managers to better plan for impacts of climate extremes, variability, and change.

**Global Climate Atmospheric Observing System -\$1.0M:** as an offset for the requested +10.6M increase in CCRI.

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**Climate Observations and Services +\$7.4M:** Funds will be used for other activities under Climate Observations and Services that are fundamental to the success of NOAA's climate research programs. This increase will ensure continuation of climate observing networks and long-term climate records that are essential to today's climate research and will further the development of operational climate products and services.

**Air Quality Research +\$1.7M:** Funds will be used to conduct a large field study centered around Houston, Texas during the summer of FY 2006 to characterize the key causes of air pollution problems in the region. This study will be one in a series of regional assessments to provide key information to enable Federal and state air quality decision-makers to make well informed decisions and to develop plans to protect public health and economic vitality. The acquired data will also improve air quality forecast models.

**Marine Aquaculture +\$1.6M:** Funds will be used to run NOAA's annual national competition to strengthen offshore aquaculture research and to support aquaculture education and extension activities.

**Aquatic Invasive Species +\$2.5M:** Funds will be used for monitoring, control, education, and research to prevent introductions and to identify new introductions early enough for a targeted rapid response.

NOAA FY 2006 Budget (\$ in Millions)		
	Current Program	Program Change
ORF	\$337.6	\$24.1
PAC	\$9.5	\$1.0
<b>TOTAL</b>	<b>\$347.1</b>	<b>\$25.1</b>