



NOAA'S CLIMATE ACTIVITIES FY 2011 BUDGET HIGHLIGHTS

NOAA requests \$435M for climate funding in FY 2011, with a total of \$130M in increases. This budget request supports NOAA's and the Department of Commerce's goals to generate credible and timely climate products for citizens, businesses and resource managers, while continuing research for understanding climate change. The FY 2011 request lays the foundation for the integration and delivery of NOAA's climate sciences and services, while developing the ability to provide NOAA's stakeholders with critical climate information for sound decision making.

Assessment Services +\$10.0M: NOAA will develop a dedicated program to produce climate assessments at national and regional scales. This program will synthesize, evaluate, and report on climate change research findings, effects of regional climate variability, and climate vulnerabilities and uncertainties for the U.S.

Carbon Observing and Analysis System +\$8.0M: An accurate, reliable, and independent system for tracking sources and sinks of carbon dioxide and other greenhouse gases is needed to evaluate mitigation strategies and to predict future climate change and its impacts, including ocean acidification. NOAA will complete and sustain an observation and analysis system to determine regional uptake and emissions of greenhouse gases.

Arctic Watch +\$3.0M: The Arctic region is undergoing profound air, land, and sea changes related to climate change. NOAA and international partners will establish an Arctic Observing Network that integrates observations from new and existing atmospheric, coastal, and oceanographic observatories; ocean moorings; ice buoys and stations; and ship transects.

Global Ocean Observing System +\$4.8M: A sustained global observing system is the foundation of all climate research and services. NOAA will continue implementation of the Global Ocean Observing System (GOOS), with an emphasis on improving sea level rise monitoring and understanding.

NOAA Climate Services Portal +\$1.5M: NOAA Climate Services Portal program will provide the public with a broad array of climate communications, outreach, and education materials. The Portal will be a central component of NOAA's commitment to the integration and delivery of climate services by providing readily accessible, actionable climate data and information.

Earth System Modeling - Urgent Climate Issues +\$7.0M: NOAA will accelerate development and use of state-of-the-art earth system models to address such urgent climate issues as: sea-level rise, feedbacks in global carbon cycle, Arctic climate change, and decadal prediction of extreme events.

National Sea Grant College Program: Hazards and Extreme Events +\$2.0M: Sea Grant will support regional research, training, and technology transfer to enhance coastal community resilience to climate induced hazards such as sea level rise, coastal storms, and extreme events.

Jason-3 Altimetry Mission – Sea Surface Height +\$30.0M: An increase is requested to provide the continuation of sea surface height measurements after the completion of the current Jason-2 mission. These important measurements address climate change research such as global sea-level rise and surface wave forecasting. The Jason-3 satellite mission is a cooperative effort with European partners, and is expected to launch in 2013.

Climate Data Records +\$11.0M: This request will transform raw satellite data into long-term environmental observations and products that are critical to climate modelers and decision makers concerned with advancing climate change understanding, prediction, mitigation and adaptation strategies, policies, and science.

Restoration of Climate Sensors +\$49.4M: An increase is requested to continue the acquisition of three space –based climate sensors. The sensors ensure NOAA's ability to provide current, accurate, and timely climate information to the scientific community through monitoring atmospheric conditions and measuring solar energy.



NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION