NOAA’S VALUE TO THE AMERICAN PUBLIC & ECONOMY

Vortex2, Tribune, KS

Community Habitat Restoration Project – Dam Removal, Sandy River, OR

Trawl Survey Operations

Education of the Next Generation of Scientists - JASON Argonauts Tour USS Gordon Gunter

Satellite-aided Rescue
Serving All Americans
NOAA’s MISSION: SCIENCE, SERVICE, & STEWARDSHIP

To understand and predict changes in climate, weather, oceans, and coasts,
To share that knowledge and information with others, and
To conserve and manage coastal and marine ecosystems and resources
DWH Response

- Mobilized 7 ships for data collection
- Flew 773 flight hours collecting air samples and conducting surveys
- Produced 150 3-day oil surface location forecasts and 30 loop current location graphics
- Issued over 4,000 spot-weather forecasts
- Released 50 shoreline impact forecasts
- Surveyed 4,229 miles of shoreline
- Implemented fishery closures measuring 88,522 square miles – approximately 37 percent of Gulf of Mexico federal waters
- Collected over 31,000 water and sediment samples collected
- Analyzed 4,638 fish and shrimp samples
FY 2010 PROGRESS & ACCOMPLISHMENTS

- Worked with Fishing Communities in Kodiak, AK
- Provided Advanced Warning of Snowmaggedon
- Launched GOES-15
- Established NOAA Climate Portal

FY 2012 NOAA BUDGET SUMMARY
FY 2012 BUDGET
FY 2012 Request is for $5.5B
an increase of $749M over the FY 2010 Enacted

- Proposes reorganization to advance climate services and to strengthen science
- Improves prediction of high impact weather and water forecasts
- Supports sustainable oceans, fisheries, and communities
- Provides critical investments in satellites and sensors to further NOAA’s observational mission
- Maintains and expands the technical infrastructure that supports NOAA’s mission
<table>
<thead>
<tr>
<th></th>
<th>FY 2010 Enacted</th>
<th>FY 2011 President’s Request</th>
<th>FY 2012 President’s Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oceans &amp; Coasts</td>
<td>$578.7</td>
<td>$550.6</td>
<td>$559.6</td>
</tr>
<tr>
<td>Fisheries</td>
<td>$1,008.2</td>
<td>$992.4</td>
<td>$1,001.1</td>
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<tr>
<td>Research*</td>
<td>$449.1</td>
<td>$464.9</td>
<td>$212.0</td>
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<tr>
<td>Climate*</td>
<td>$0</td>
<td>$0</td>
<td>$346.2</td>
</tr>
<tr>
<td>Weather</td>
<td>$999.8</td>
<td>$1,003.2</td>
<td>$988.0</td>
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<tr>
<td>Satellites</td>
<td>$1,398.5</td>
<td>$2,209.0</td>
<td>$2,015.4</td>
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<tr>
<td>Program Support/Fleet</td>
<td>$485.9</td>
<td>$515.1</td>
<td>$524.8</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$4,748.4</strong></td>
<td><strong>$5,554.5</strong></td>
<td><strong>$5,497.7</strong></td>
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</table>

*Research and Climate budgets combined in FY10 and FY11
<table>
<thead>
<tr>
<th>Observing Systems, Data Stewardship, and Climate Monitoring</th>
<th>Understanding and Modeling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predictions and Projections</td>
<td>Integrated Service Development and Decision Support</td>
</tr>
</tbody>
</table>

**NOAA CLIMATE SCIENCE AND SERVICES**

**Core Capabilities**
NOAA's FY 2012 Budget Request includes the proposed reorganization of existing NOAA climate programs and activities under one Climate Service Line Office.
NOAA’s request includes $737M across NOAA for research and development, which is 13.4% of NOAA’s overall $5.5B budget.

NOAA’s Office of Oceanic and Atmospheric Research (OAR) will continue to deliver preeminent scientific advances that result in new knowledge, technology, and improved services for the Nation.
“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 (Sept 2010)

OAR

- Long-term mission-focused research
- Multi-disciplinary subject matter expertise
- Rapid response capability
- Sustained infrastructure
- Human capital
- Promote collaborations with internal & external scientific community

Sea Grant Colleges
Academia
Private Sector
Cooperative Institutes
Interagency Partners
International Partners

Oceans & Coasts
Fisheries
Climate
Weather
Satellites

FY 2012 NOAA BUDGET SUMMARY
BUDGET HIGHLIGHTS
BUDGET INCLUDES A TOTAL INVESTMENT OF $559.6M

Sustains core investments and capabilities in:
- Regional Ocean Partnership Grants
- Coastal and Marine Spatial Planning
- Coastal and Estuarine Land Conservation Program (CELCP)
- Coastal Ocean Science
- Competitive Research

<table>
<thead>
<tr>
<th>Targeted Investment Highlights</th>
<th>Request</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Spill Research</td>
<td>$2.9M</td>
<td>$2.9M</td>
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<tr>
<td>Working Waterfronts</td>
<td>$8.0M</td>
<td>$8.0M</td>
</tr>
<tr>
<td>IOOS Surface Current Mapping</td>
<td>$5.0M</td>
<td>$5.0M</td>
</tr>
</tbody>
</table>
BUDGET INCLUDES A TOTAL INVESTMENT OF $1,001.1M

Sustains core investments and capabilities in:

- National Catch Share Program
- Species Recovery Grants
- Community Based Restoration Program
- Chesapeake Bay Fisheries & Habitat Monitoring & Restoration

<table>
<thead>
<tr>
<th>Targeted Investment Highlights</th>
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<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fisheries Stock Assessments</td>
<td>$67.1M</td>
<td>$15.0M</td>
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<tr>
<td>Recreational Fisheries Data Collection</td>
<td>$24.4M</td>
<td>$3.0M</td>
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<tr>
<td>Protected Species Science</td>
<td>$48.7M</td>
<td>$2.5M</td>
</tr>
</tbody>
</table>

Catch Shares  | Stock Assessment | Recreational Fishing | Sea Turtle Tracking | Protected Species Science Monk Seal Inoculation
BUDGET INCLUDES A TOTAL INVESTMENT OF $212.0M

Sustains core investments and capabilities in:
- Multifunction Phased Array Radar (MPAR)
- Ocean Acidification
- Sea Grant

<table>
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<tbody>
<tr>
<td>Wind Renewable Energy Research</td>
<td>$2.0M</td>
<td>$2.0M</td>
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<tr>
<td>Ocean Exploration &amp; Research</td>
<td>$29.5M</td>
<td>$1.5M</td>
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</table>

RESEARCH
Strengthen Science
Meeting The Rising Demand For Climate Science & Services

BUDGET INCLUDES A TOTAL INVESTMENT OF $346.2M

Sustains core investments and capabilities in:
- Arctic Watch
- Water Resources Research to Operations
- Carbon Observing and Analysis System
- Earth System Modeling
- Global Ocean Observing System

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<tr>
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<tbody>
<tr>
<td>Regional Climate Services</td>
<td>$4.4M</td>
<td>$3.0M</td>
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<tr>
<td>Monitoring Atmospheric Carbon Sources</td>
<td>$5.5M</td>
<td>$4.7M</td>
</tr>
</tbody>
</table>

Arctic Watch

FY 2012 NOAA BUDGET SUMMARY
WEATHER
Prepare A Weather Ready Nation

BUDGET INCLUDES A TOTAL INVESTMENT OF $988.0M

Sustains core investments and capabilities in:
- Space Weather Program
- Enhancing Observations
- NEXRAD Dual Polarization Radar

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<tr>
<th>Targeted Investment Highlights</th>
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<th>Increase</th>
</tr>
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<tbody>
<tr>
<td>Aviation Weather</td>
<td>$38.6M</td>
<td>$26.9M</td>
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<tr>
<td>Buoy Operations &amp; Maintenance</td>
<td>$28.7M</td>
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<tr>
<td>Weather &amp; Climate Supercomputing</td>
<td>$40.2M</td>
<td>$11.0M</td>
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FY 2012 NOAA BUDGET SUMMARY
SATELLITES
Provide Critical Operational Observations

BUDGET INCLUDES A TOTAL INVESTMENT OF $2,015.4M

Sustains core investments and capabilities in:
- Weather & Ocean Satellites
- Search & Rescue
- Severe Storms
- Climate Sensors

Targeted Investment Highlights

<table>
<thead>
<tr>
<th></th>
<th>Request</th>
<th>Increase</th>
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</thead>
<tbody>
<tr>
<td>Space Weather</td>
<td>$47.3M</td>
<td>$47.3M</td>
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<tr>
<td>Atmospheric Profiles</td>
<td>$11.3M</td>
<td>$11.3M</td>
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<tr>
<td>Sea Surface Height</td>
<td>$53.0M</td>
<td>$33.0M</td>
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</table>

FY 2012 NOAA BUDGET SUMMARY
SATELLITES
Ensuring Continuity of Weather, Ocean, & Climate Observations

BUDGET INCLUDES AN INCREASE OF $687.8M, FOR A TOTAL REQUEST OF $1,070.0M FOR THE JOINT POLAR SATELLITE SYSTEM (JPSS)

JPSS advancements will result in improved data to better inform actions and decisions related to:

- Critical National Security
- Agriculture
- Search & Rescue
- Aviation Safety/Volcanic Ash Monitoring
- Coastal residents and Fisheries

NOAA’s Next Polar-Orbiting Satellite
BUDGET INCLUDES A TOTAL INVESTMENT OF $524.8M

Sustains core investments and capabilities in:
- Fisheries Vessel Construction

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<tr>
<td>IT Improvements &amp; Security</td>
<td>$18.4M</td>
<td>$9.1M</td>
</tr>
<tr>
<td>Facility Restoration &amp; Modernization</td>
<td>$14.5M</td>
<td>$10.0M</td>
</tr>
<tr>
<td>Fleet Repairs</td>
<td>$12.6M</td>
<td>$11.6M</td>
</tr>
</tbody>
</table>
ADMINISTRATIVE EFFICIENCY INITIATIVE

BUDGET INCLUDES $67.7M IN ADMINISTRATIVE COST REDUCTIONS

"The Federal Government spends extensive amounts on services or products that may be characterized as administrative or overhead. . . . While most of these expenses are essential for supporting agencies’ missions, the Administration required each agency to review its budget to find and cut unnecessary spending as well as ensure the agency is buying what it does need as efficiently as possible." - Budget of the United States Government, Fiscal Year 2012

<table>
<thead>
<tr>
<th>FY 2012 SAVINGS PER LINE OFFICE</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Oceans &amp; Coasts</td>
<td>$9.3M</td>
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<tr>
<td>Fisheries</td>
<td>$16.3M</td>
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<tr>
<td>Research</td>
<td>$3.2M</td>
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<tr>
<td>Climate</td>
<td>$4.6M</td>
</tr>
<tr>
<td>Weather</td>
<td>$13.2M</td>
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<tr>
<td>Satellites</td>
<td>$11.9M</td>
</tr>
<tr>
<td>Program Support</td>
<td>$9.1M</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$67.7M</td>
</tr>
</tbody>
</table>
NOAA Budget Information

NOAA Budget Hotline: 202-482-4822

Blue Book and Briefing: http://www.noaa.gov

Budget Questions: AskNOAABudget@noaa.gov

NOAA Annual Guidance Memorandum:
http://www.ppi.noaa.gov/