



National Oceanic and Atmospheric Administration FY 2017 Budget Request

Constituent Briefing

**Dr. Kathryn Sullivan
NOAA Administrator**

March 4, 2016



Agenda



- Priorities
- FY 2017 Initiatives
- Budget Summary (FY 2014-2017)



NOAA Priorities

FY 2017 proposal continues to promote the following NOAA priorities:

- Provide information and services to make communities more resilient
- Evolve the National Weather Service
- Invest in observational infrastructure
- Achieve organizational excellence

NOAA America's Environmental Intelligence Agency
Putting environmental information into the hands of people who need it.

ENVIRONMENTAL INTELLIGENCE

Observations Monitoring Assessment Modeling Forecasts and Products

TOP PRIORITIES FOR 2014-2018

- 1 Make communities more resilient
- 2 Evolve the Weather Service
- 3 Invest in observational Infrastructure
- 4 Achieve Organizational Excellence

NOAA



DOC Priority Alignment

Environment

Ensure communities and businesses have the necessary information, products, and services to prepare for and prosper in a changing environment

- Make communities more resilient
- Evolve the Weather Service
- Invest in observational infrastructure

Data

Improve government, business, and community decisions and knowledge by transforming Department data capabilities and supporting a data-enabled economy

- Big data

Operational Excellence

Strengthen better services, solutions, and outcomes that benefit the American people

- Organizational Excellence





Community and Economic Resilience: Accomplishments



GULF SPILL RESTORATION
 Ports maintained by NOAA as part of the Deepwater Horizon Natural Resources Damage Assessment Trustee Council

HOME ABOUT US DAMAGE ASSESSMENT BP OIL SPILL RESTORATION WHAT YOU CAN DO NEWS & MEDIA Search here

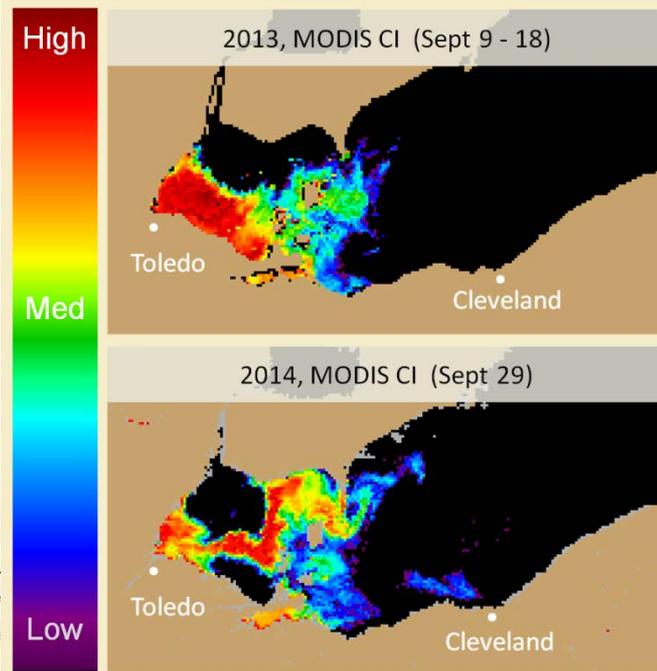
View Submitted Projects

You can use the map below to view projects that have been submitted to the trustees for consideration. To view details of an individual project, click the View icon on the list below or click the project marker on the map. To highlight the location of a project from the list, click the Show on Map icon.

All projects that have met the posting guidelines are accessible from the project list, and only those projects that were submitted with valid coordinates are displayed on the map. The inclusion of a project on this list does not indicate that it has been fully reviewed for meeting project selection criteria, nor is it guaranteed to be selected and approved. All projects approved by the trustees will be subject to public review and comment.

Please Note (click to view)

Projects List



U.S. Climate Resilience Toolkit

Get Started Taking Action Tools Topics Expertise

Home

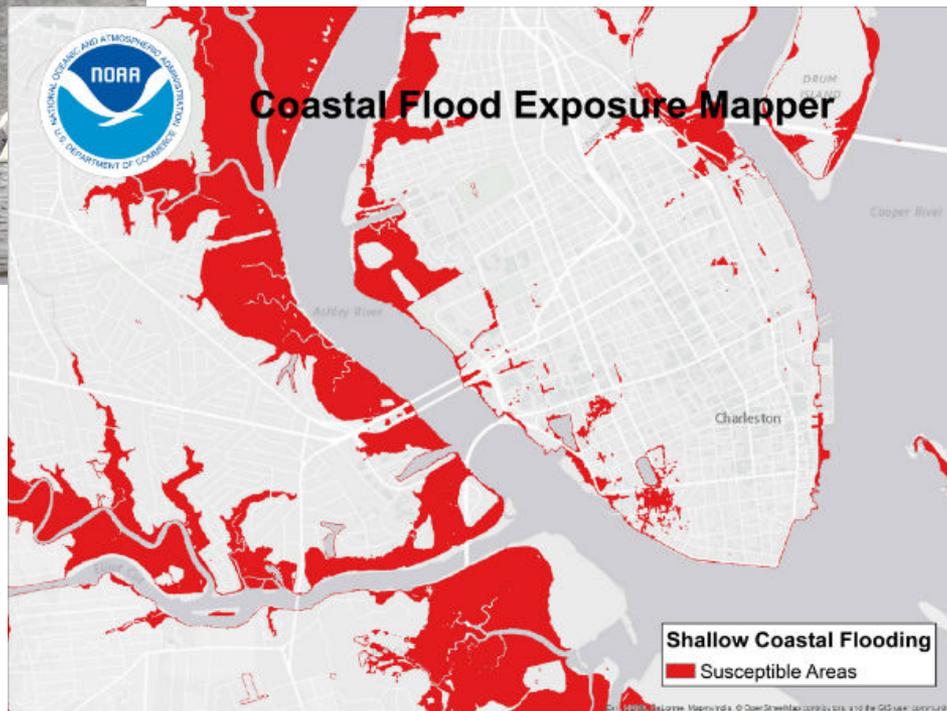
Meet the Challenges of a Changing Climate

Find resources and a framework to understand and address climate issues that impact people and their communities.

- 1 Identify the Problem
- 2 Determine Vulnerabilities
- 3 Investigate Options
- 4 Evaluate Risks & Costs
- 5 Take Action

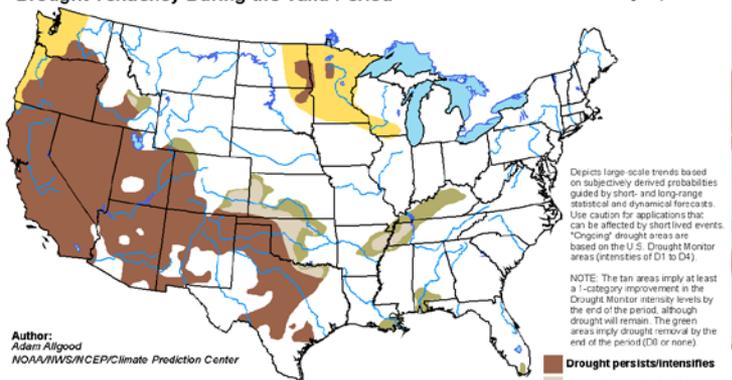


Community and Economic Resilience: Integrated Water Initiative



U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for February 19 - May 31, 2015
Released February 19, 2015



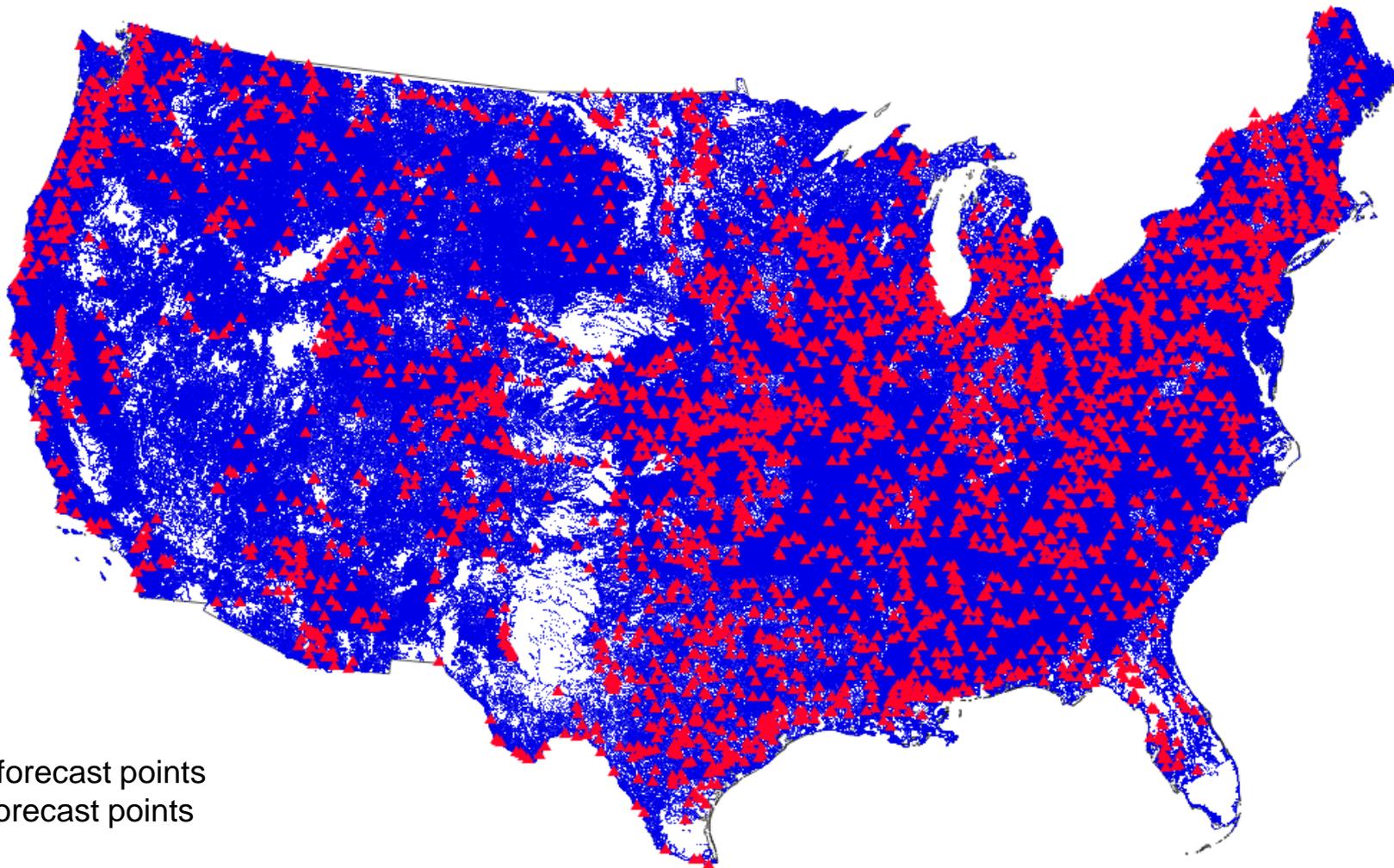
Author:
Adam Algood
NOAA/NWS/NCEP/Climate Prediction Center



<http://go.usa.gov/hH7e>



Community and Economic Resilience: Integrated Water Initiative



- ▲ Current forecast points
- Future forecast points



Community and Economic Resilience

Coastal Resources

- National Oceans and Coastal Security Fund (NOS): +\$10M
- AmeriCorps (NOS): +\$2M
- Capacity to Respond to Extreme Events (NOS): +\$4M
- Regional Coastal Resilience Grants (NOS): +\$15M
- Ecosystem-based Solutions for Coastal Resilience (NOS): +\$5M
- Competitive Research (NOS): +\$4M

Water & Air Resources

- Integrated Water Prediction (NWS, NOS): +\$12.25M
- Climate Research/Labs and CIs (ABOs, Greenhouse Gas, USGCRP) (OAR): +\$10.5M
- Climate Research/Regional Climate Data and Information (Climate Portal, Arctic, Assessments, RISA) (OAR): +\$14.5M



Community and Economic Resilience



Ocean Resources

- Fisheries Disaster Assistance Fund (NMFS): +\$9M
- Ecosystem-based Solutions for Fisheries Management (NMFS): +\$5.9M
- Increase Consultation Capacity (NMFS): +\$19.9M
- Species Recovery Grants (NMFS): +\$16M
- Pacific Salmon (NMFS): +\$2.3M
- Observers and Training (NMFS): +\$1.1M
- National Catch Share Program (NMFS): +\$2.5M
- Support for Domestic Seafood Production/Jobs through Aquaculture (NMFS): +\$1.5M
- Management of Fair Trade/IUU Fishing (NMFS): +\$1.6M
- Expanding NOAA's Cooperative Enforcement Program (NMFS): +\$1M
- Impacts of Climate on Fish Stocks (OAR): +\$5.8M
- Integrated Ocean Acidification (OAR): +\$11.7M



Evolve the NWS: Accomplishments

FY 14 Included:

- ✓ Submit NWS Budget Restructuring
- ✓ National Water Center Staffing Initiated
- ✓ NWS HQ Reorganization requested
- ✓ Dissemination systems assessment and consolidation initiated
- ✓ WRN Ambassador Initiative launched

FY 15 Includes:

- ✓ New budget structure implemented
- ✓ NWS HQ reorganization underway
- ✓ Governance document to operate in new HQ and budget structures developed
- Framework to guide Transformational Change in place
- ✓ Operations & Workforce Analysis underway
- ✓ National Water Center Initial Operating Capability
- AWIPS II Deployment complete
- ✓ NEXRAD SLEP underway
- ✓ Initiate Strategic Office Relocations
- ✓ Initiate facilities assessment

FY 17 Includes:

- Test & evaluate recommendations from Operations & Workforce Analysis
- Continue staffing National Water Center
- Expand geographic domain and breadth of water information
- Sustain/enhance integrated dissemination systems
- Complete facilities assessment
- Begin ASOS SLEP

FY 16 Includes:

- Supercomputing capacity increased
- New integrated dissemination system operational
- Communications upgrade to field offices complete
- Implement National-scale "blender" model v1.0
- Conduct Operational Test & Evaluation of Impact-Based Decision Support Catalog
- Operations & Workforce Analysis complete w/recommendations
- Implement Experimental NWC Centralized Water Forecast Modeling System v1.0
- Develop weeks 3-4 experimental heat and precipitation outlook products
- Prototype coupled ocean-atmosphere-ice model

FY 18 and Beyond Includes:

- Fully Integrated Field Structure delivering consistent products and services
- Implement Operations & Workforce Analysis recommendations
- FACETS and Warn-on-Forecast
- National Water Center baseline staffing complete
- Complete NEXRAD and ASOS SLEP

FY14

FY15

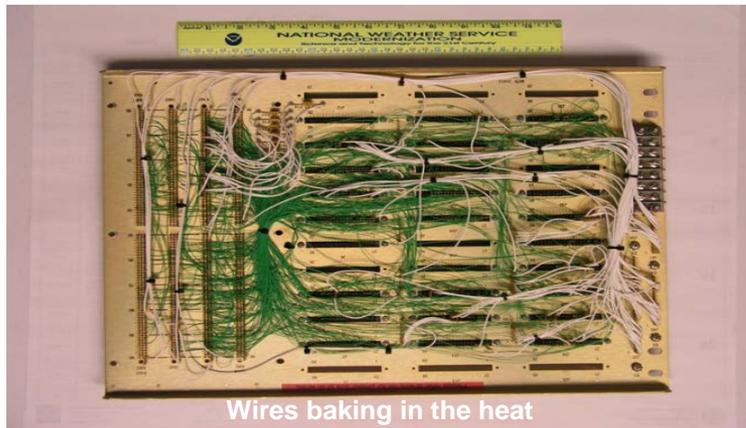
FY16

FY17

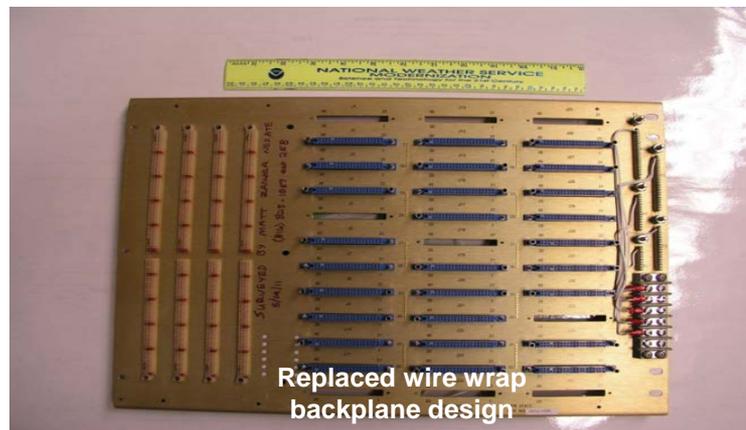
FY18-23+

National Weather Service Evolution

- NEXRAD SLEP



Wires baking in the heat



Replaced wire wrap backplane design



- ASOS SLEP

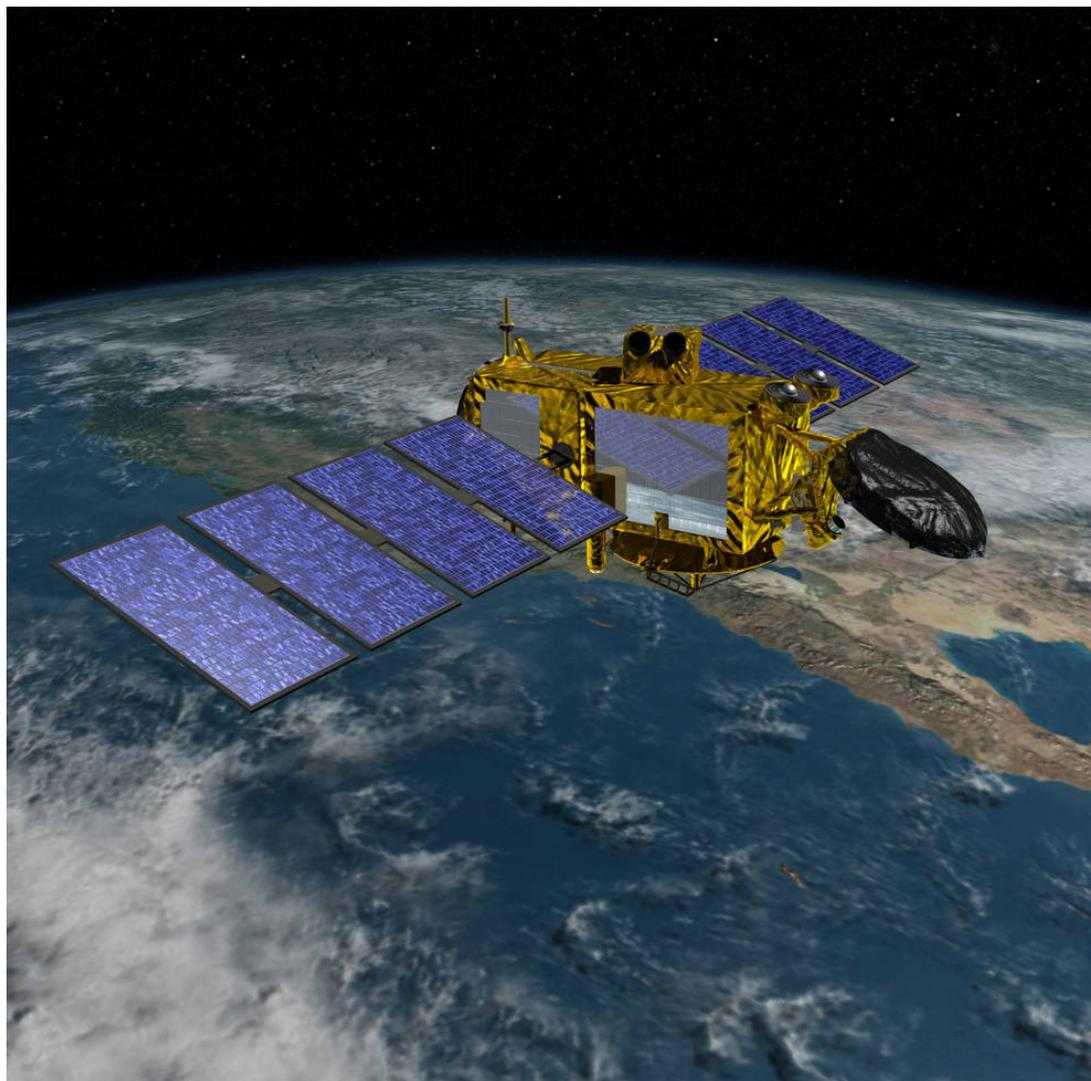


National Weather Service Evolution

- NEXRAD SLEP (NWS): +\$8.5M
- ASOS SLEP (NWS): +\$7.5M
- APAR (OAR): +\$4.6M
- Mid-range Forecasting (OAR): +\$3.9M
- AWIPS Refresh (NWS): +\$5.1M
- NOAA Weather Radio (NWS): +\$2M



Invest in Observational Infrastructure: Accomplishments





Observational Infrastructure

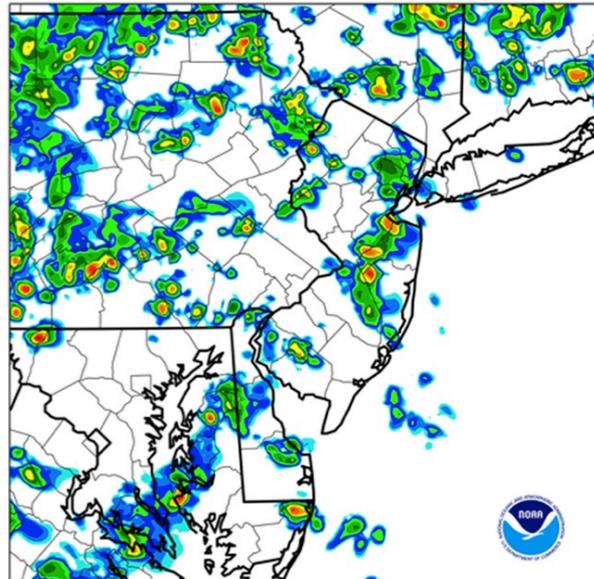
- Fleet Recapitalization/RSV Construction (OMAO): \$24M*
- Polar Follow On (NESDIS): +\$23M
- Projects, Planning and Analysis (NESDIS): +\$8.3M
- DSCOV (operations, tech refresh, PAC) (NESDIS): +\$4M
- Space Weather Follow-on (NESDIS): +\$1.3M
- COSMIC 2B: Polar Orbiting Radio Occultation (NESDIS): +\$8.1M
- Commercial Weather Data Pilot (NESDIS): +\$2M
- Satellite Ground Services (NESDIS): +\$4.5M
- System Architecture and Advanced Planning (NESDIS): +\$1M
- Alternative Crewing Models (OMAO): +\$2M
- Progressive Lifecycle Maintenance (OMAO): +\$5M

* Amount within base funds toward RSV

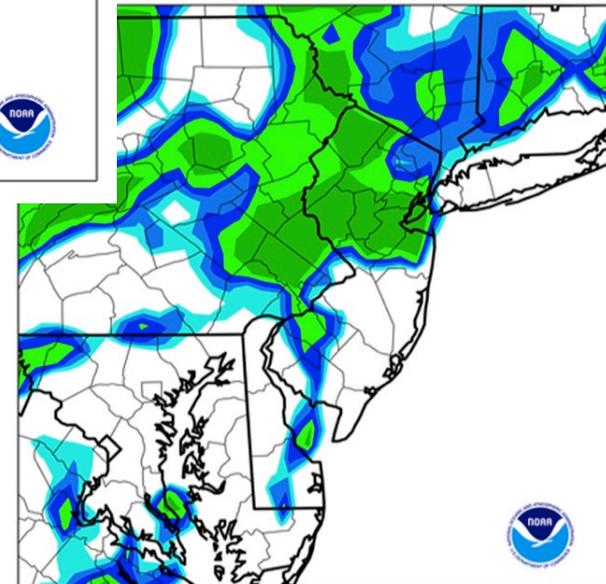


Organizational Excellence: Research Transition Acceleration Program

New HRRR Weather Model



Existing Weather Model





Organizational Excellence: NOAA Facilities:



Mukilteo Research Station Replacement



Credit: Benjamin Drummer



Organizational Excellence



- Research Transition Acceleration Program (OAR): +\$10M
- Fisheries Facilities Initiative: Mukilteo Research Station (MS, NMFS): +\$4.6M
- Data Systems for Mission Resilience/NESDIS IT Security (MS, NESDIS): +\$6.3M
- Building Capacity in NOAA-wide Mission Support (MS): +\$4.4M
- R&D High Performance Computing Recapitalization (OAR): +\$6.3M
- Maintaining Capability in the DOC Working Capital Fund (MS) +\$2.3M
- Commercial Remote Sensing Regulatory Affairs (NESDIS): +\$1.1M
- Office of Space Commerce (NESDIS): +\$1.4M
- Accelerate Facility Disposal (MS): +\$2.1M



Reductions: **-\$284.3M***



Planned Decreases (NESDIS, NWS, OMAO, MS): **-\$177.1M**

Programmatic Decreases

- Hydrographic Research and Technology Development (NOS): **-\$2M**
- Regional Geospatial Modeling Grants (NOS): **-\$6M**
- Reduce Acquisition of Hydrographic Surveys Data (NOS): **-\$2M**
- Coastal Ecosystem Resilience Grants (NMFS): **-\$10M**
- Vortex-SE (OAR): **-\$5M**
- Weather & Air Quality Labs and CIs Base Research (OAR): **-\$2.9M**
- Joint Technology Transfer program (OAR): **-\$6M**
- PMEL AUV Demonstration (OAR): **-\$2M**
- OCGL Research Labs and CIs (OAR): **-\$3M**
- Sea Grant Base (OAR): **-\$2.5M**
- Marine AQ Program (OAR): **-\$2M**
- Ocean Exploration (OAR): **-\$12.7M**
- National Mesonet Program (NWS): **-\$11.5M**
- ITOs/Establishment of Regional Enterprise Application Development and Integration (READI) Teams (NWS): **-\$10.1M**
- National Tsunami Hazard Mitigation (NWS): **-\$6M**
- Elimination of Redundant Regional Telecommunication Circuits (NWS): **-\$3M**
- Shift R2O Toward an Integrated Approach (NWS): **-\$3M**
- COASTAL Act (NWS): **-\$4.6M**
- Reduce R&D High Performance Computing (NWS): **-\$2M**
- BWET (MS): **-\$7.2M**
- Competitive Education Grants (MS): **-\$3M**

* Figure represents total decrease amount for FY 2017 (only amounts >\$1M reflected above).



NOAA Discretionary Budget Summary by LO (FY 2014-2017)



(\$ IN MILLIONS)	FY 2014 Spend Plan	FY 2015 Spend Plan	FY 2016 Enacted	FY 2017 President's Budget
NOS	\$474.9	\$484.8	\$503.8	\$542.1
NMFS	\$950.0	\$887.5	\$914.9	\$979.1
OAR	\$423.9	\$446.3	\$482.0	\$519.8
NWS	\$1,062.6	\$1,087.5	\$1,124.1	\$1,119.3
NESDIS	\$2,087.1	\$2,223.1	\$2,349.4	\$2,303.7
Mission Support	\$252.4	\$247.9	\$253.9	\$286.1
OMAO	\$208.0	\$214.5	\$304.8	\$259.9
Financing	(\$136.0)	(\$142.7)	(\$159.4)	(\$159.4)
Total Discretionary Appropriation	\$5,322.5	\$5,448.9	\$5,773.5	\$5,850.6



Questions?

