National Oceanic and Atmospheric Administration
FY 2017 Budget Request

Congressional Briefing

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NOAA Administrator

March 3, 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

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

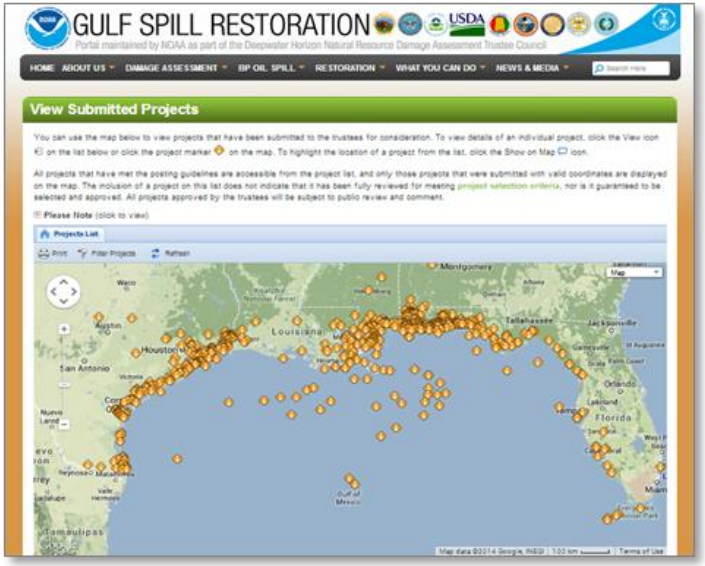
- Big data

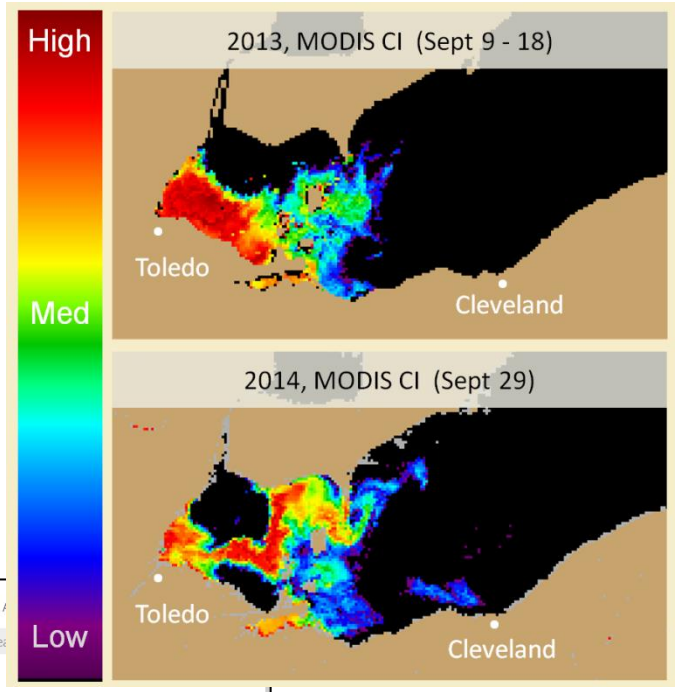
Operational Excellence

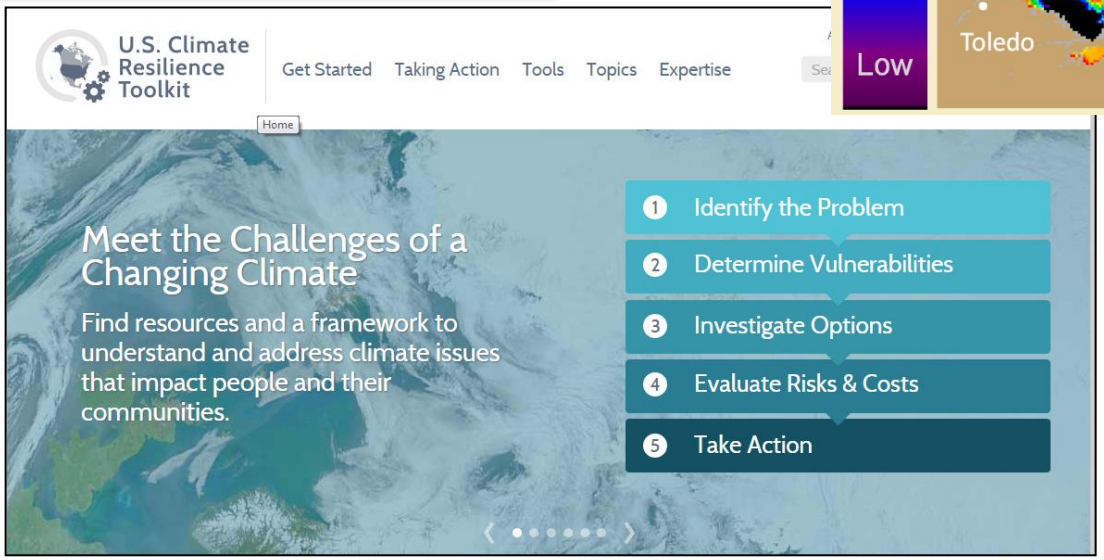
Strengthen better services, solutions, and outcomes that benefit the American people

- Organizational Excellence

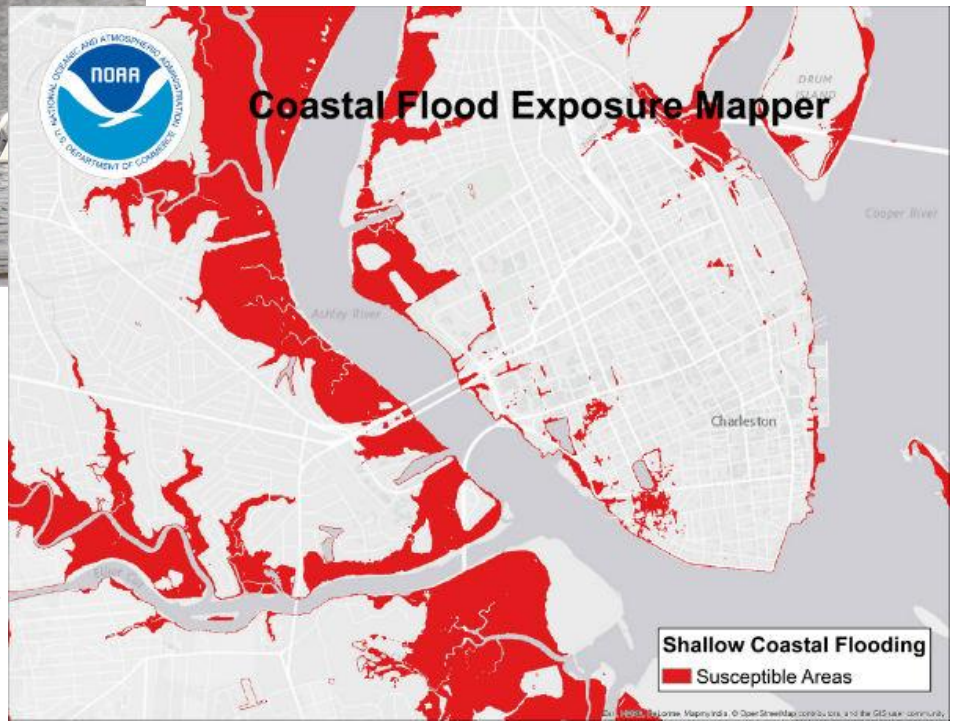
Community and Economic Resilience: Accomplishments

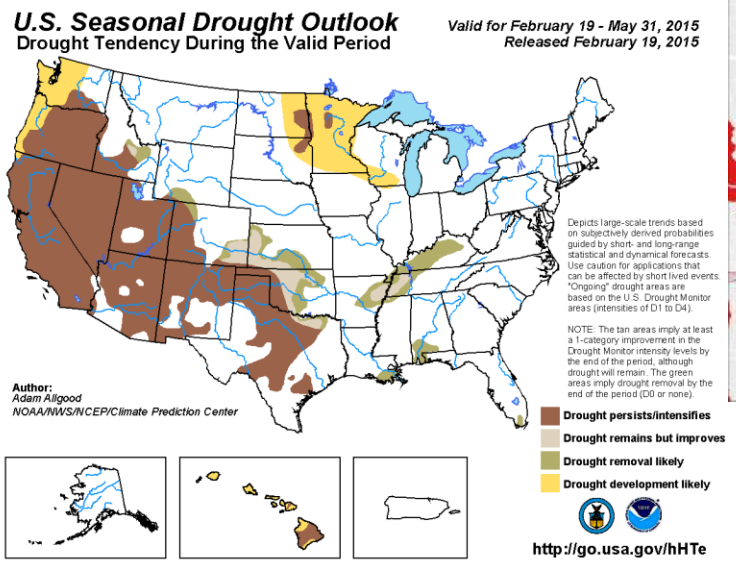






Community and Economic Resilience: Integrated Water Initiative





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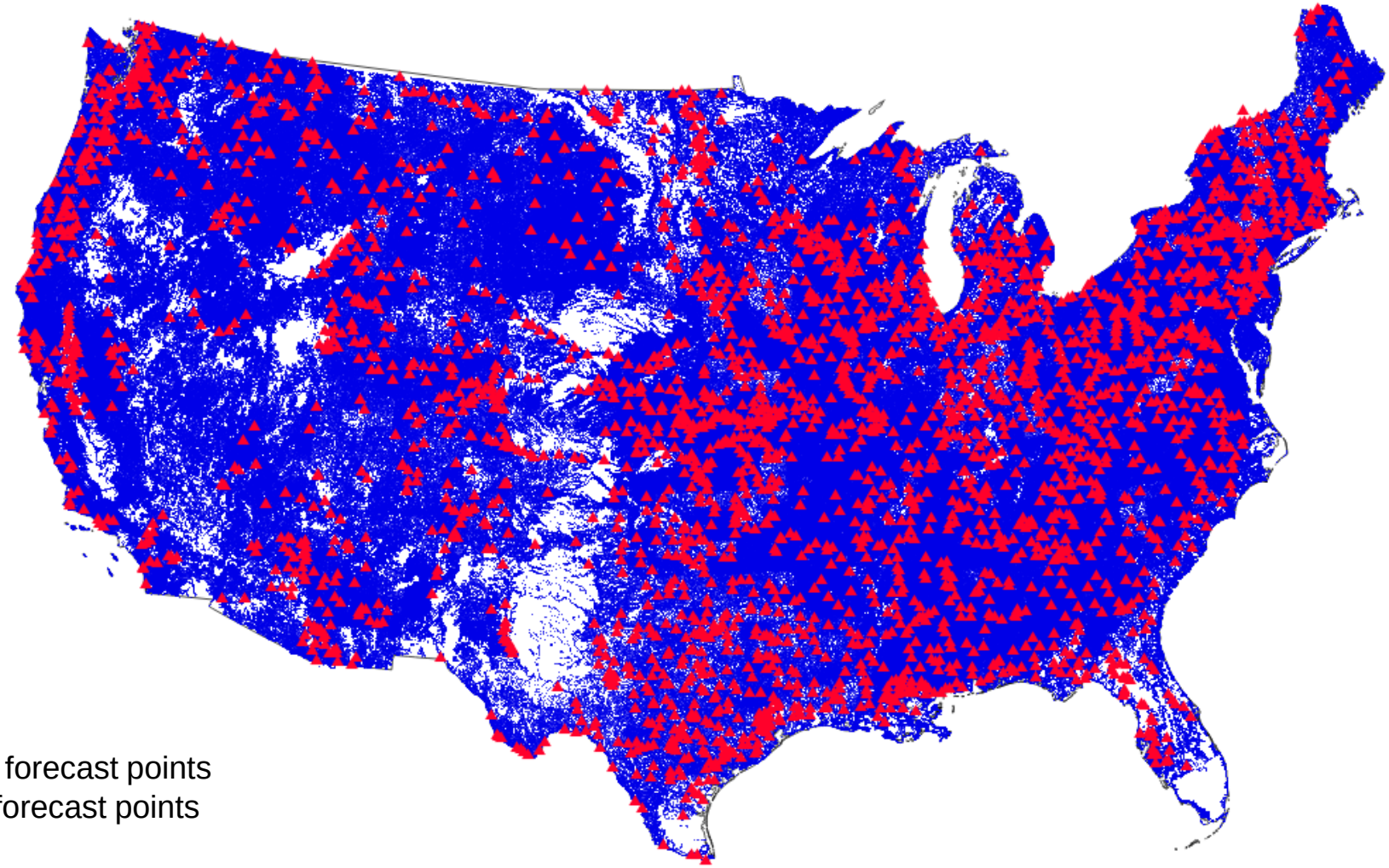


▲ Current forecast points
● Future forecast points

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

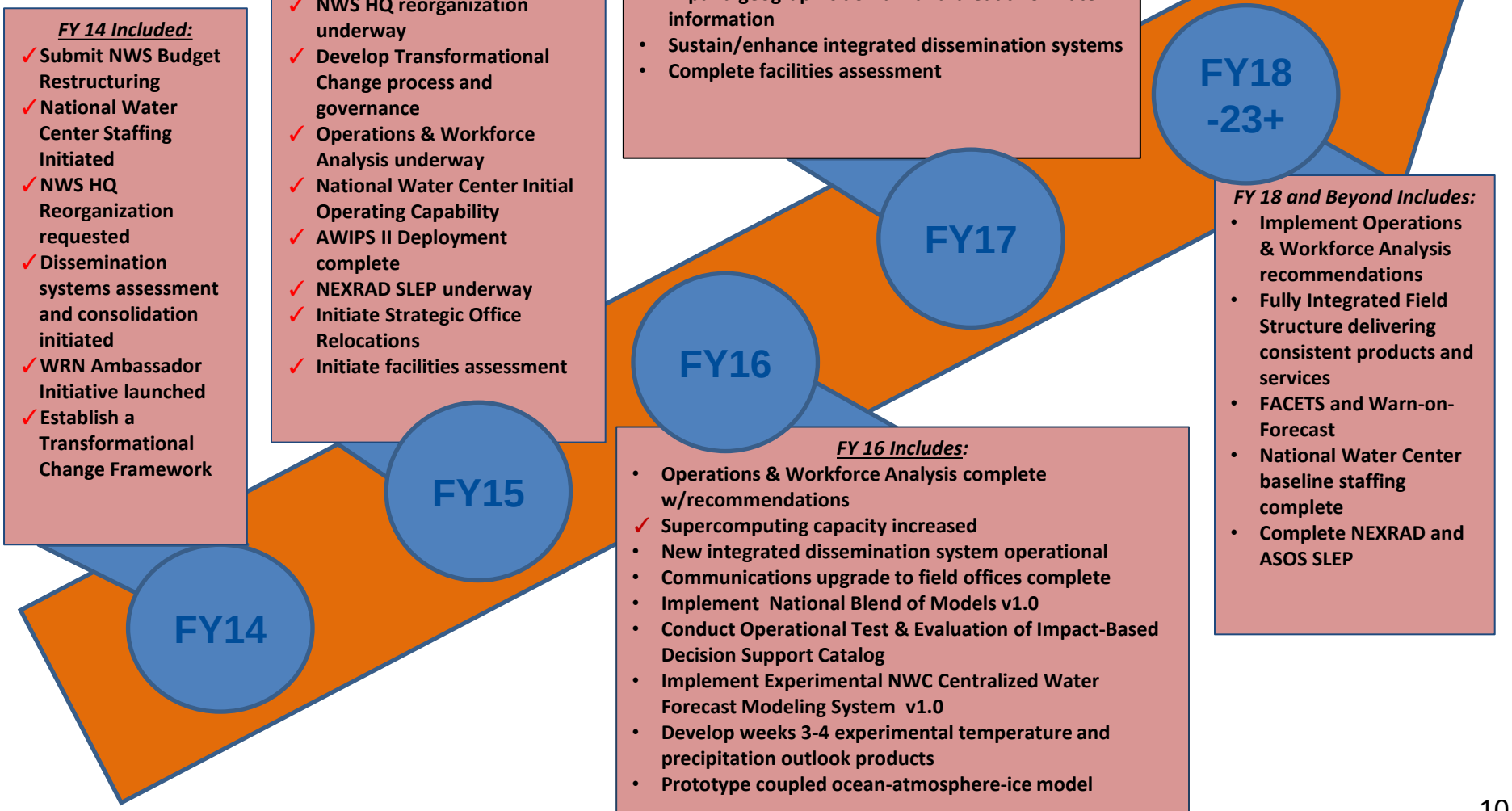
- Integrated Water Prediction (NWS, NOS): +$12.25M
- Climate Research/Labs and CIs (ABOs, Greenhouse Gas, USGCRP) (OAR): +$10.5M
- Climate Research/Regional Climate Data and Information (Climate Portal, Arctic, Assessments, RISA) (OAR): +$14.5M

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 and Build a Weather Ready Nation



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
- ✓ Establish a Transformational Change Framework

FY 15 Includes:

- ✓ New budget structure implemented
- ✓ NWS HQ reorganization underway
- ✓ Develop Transformational Change process and governance
- ✓ 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 16 Includes:

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

FY 17 Includes:

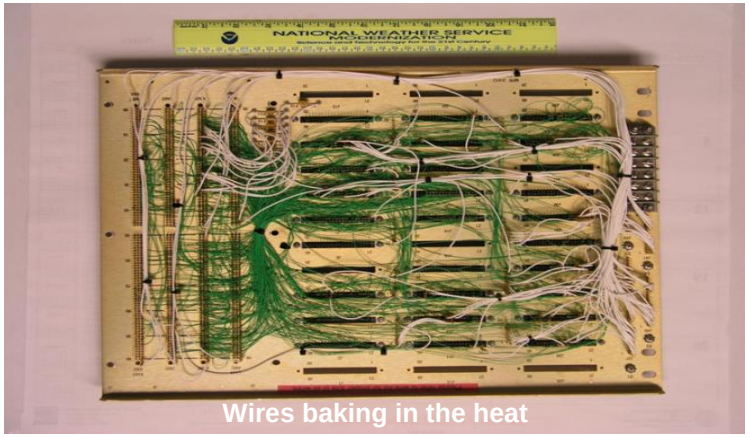
- Test & evaluate recommendations from Operations & Workforce Analysis
- Continue National Water Center baseline staffing
- Expand geographic domain and breadth of water information
- Sustain/enhance integrated dissemination systems
- Complete facilities assessment

FY 18 and Beyond Includes:

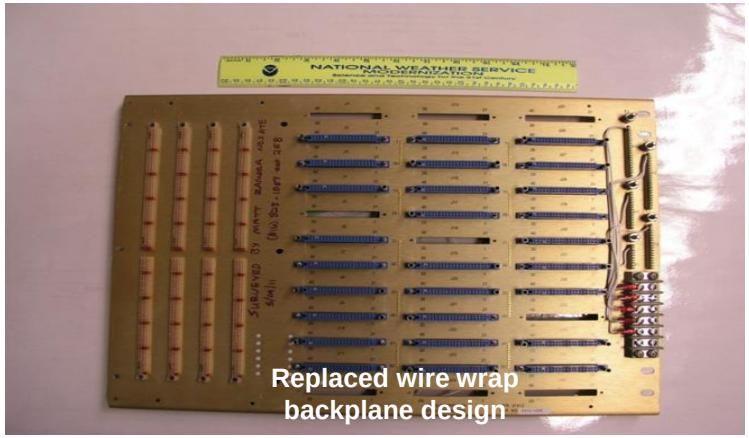
- Implement Operations & Workforce Analysis recommendations
- Fully Integrated Field Structure delivering consistent products and services
- FACETS and Warn-on-Forecast
- National Water Center baseline staffing complete
- Complete NEXRAD and ASOS SLEP

National Weather Service Evolution

- NEXRAD SLEP



Wires baking in the heat



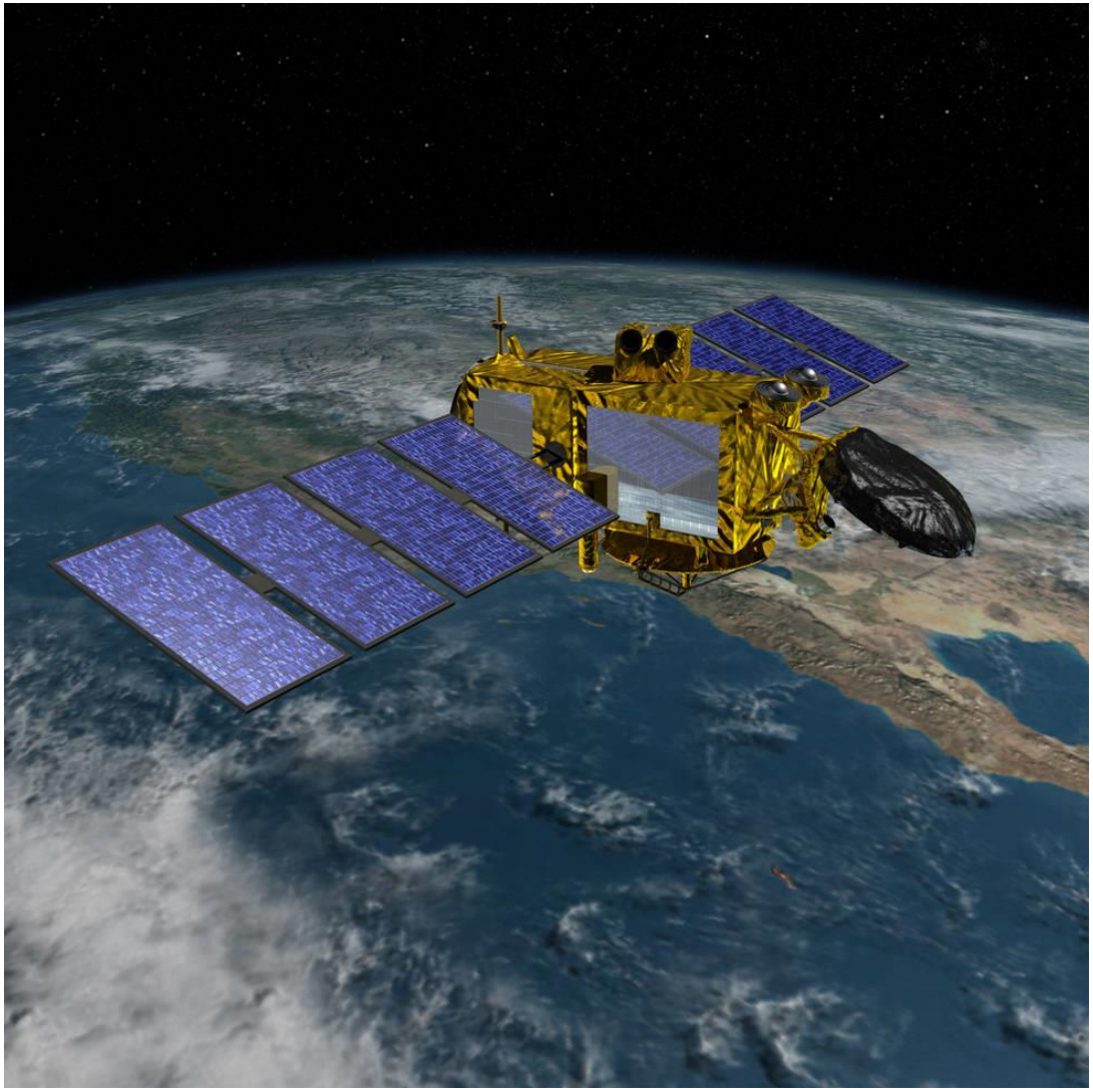
Replaced wire wrap backplane design

- 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

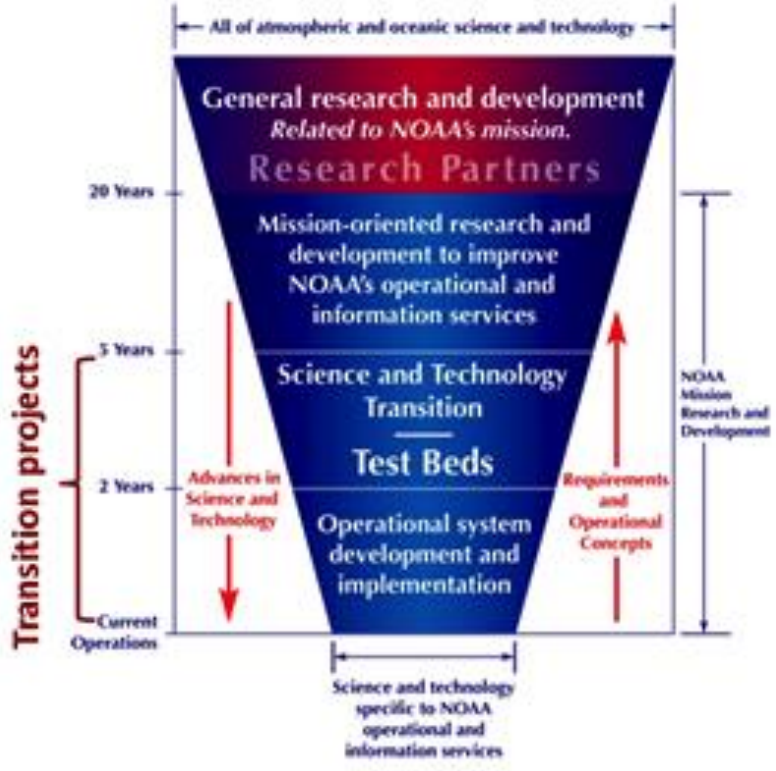


Observational Infrastructure

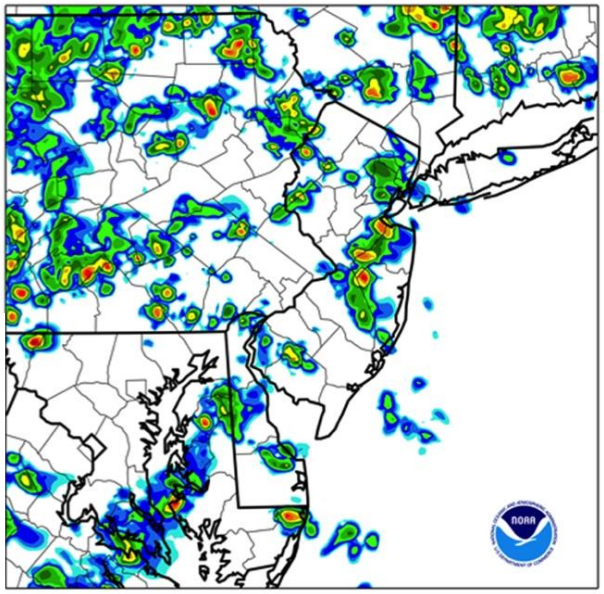
- Fleet Recapitalization/RSV Construction (OMAO): $24M*
- Polar Follow On (NESDIS): +$23M
- Projects, Planning and Analysis (NESDIS): +$8.3M
- DSCOVR (operations, tech refresh, PAC) (NESDIS): +$4M
- Space Weather Follow-on (NESDIS): +$1.3M
- COSMIC 2B: Polar Orbiting Radio Occultation (NESDIS): +$8.1M
- 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

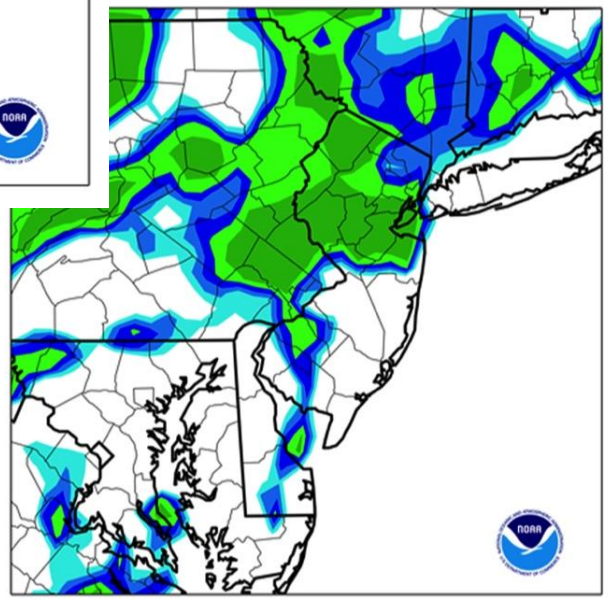
Organizational Excellence: Research Transition Acceleration Program



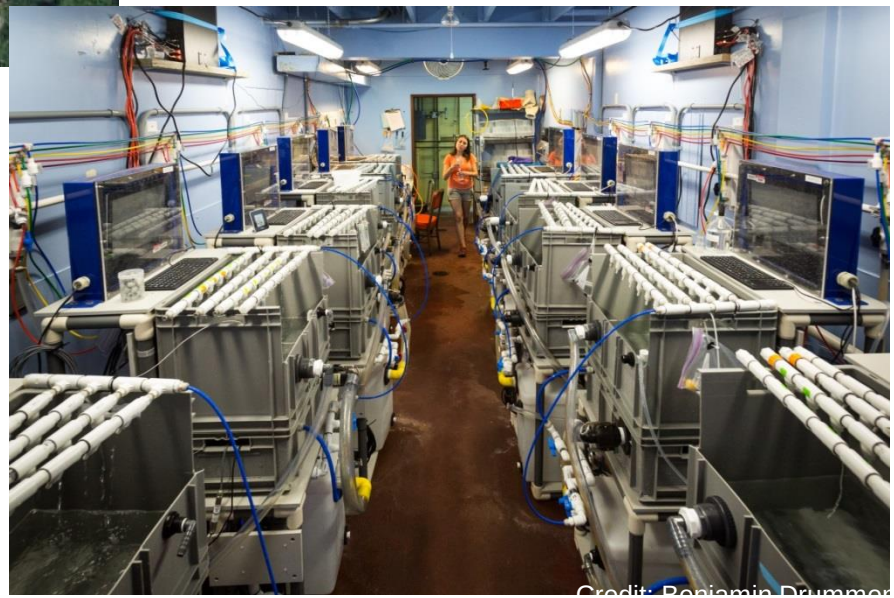
New HRRR Weather Model



Existing Weather Model



Organizational Excellence:
NOAA Facilities:
Mukilteo Research Station Replacement



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

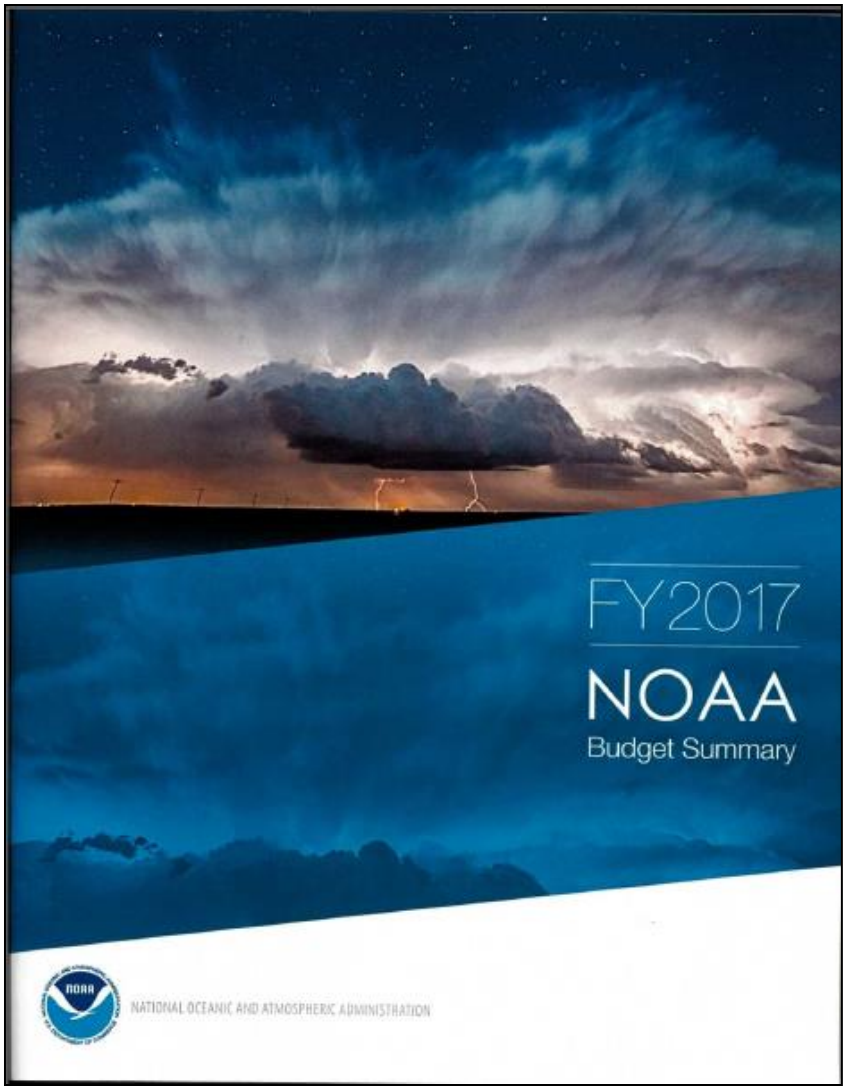
- Hydrographic Research and Technology Development (NOS): -$2M
- Regional Geospatial Modeling Grants (NOS): -$6M
- Reduce Acquisition of Hydrographic Surveys Data (NOS): -$2M
- Coastal Ecosystem Resilience Grants (NMFS): -$10M
- Vortex-SE (OAR): -$5M
- Weather & Air Quality Labs and CIs Base Research (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?


FY2017
NOAA
Budget Summary
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION