

NOAA National Weather Service

FY 2013 President's Budget Request



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FY 11 Progress & Accomplishments



A residential neighborhood in Joplin, Mo (AP Photo/Tulsa World, Adam Wisneski)

Outcomes:

- 1,000 lives lost (8,000 injured)
 - Double the average number of fatalities in a year
 - 550 from tornadoes alone (fourth deadliest in U.S. history)
 - Joplin EF-5, 160 people died
- \$55B economic losses (14 disasters over \$1B each)

2011 Year of Extremes

- 1700 tornadoes (*preliminary*)
 - All time record of 750 tornadoes in April alone
- Hurricane Irene
- Historic U.S. Floods
- Japan Pacific Tsunami
- Millions of Acres Burned
- Devastating Blizzards

NWS Performance

- AL Tornadoes
 - 24 min. lead time
- Joplin Tornado
 - 17 min. lead time
- Irene
 - 5 day lead time
- Floods
 - 3 months lead time

Good Performance Not Good Enough → Weather-Ready Nation



14 Weather & Climate Billion Dollar Disasters



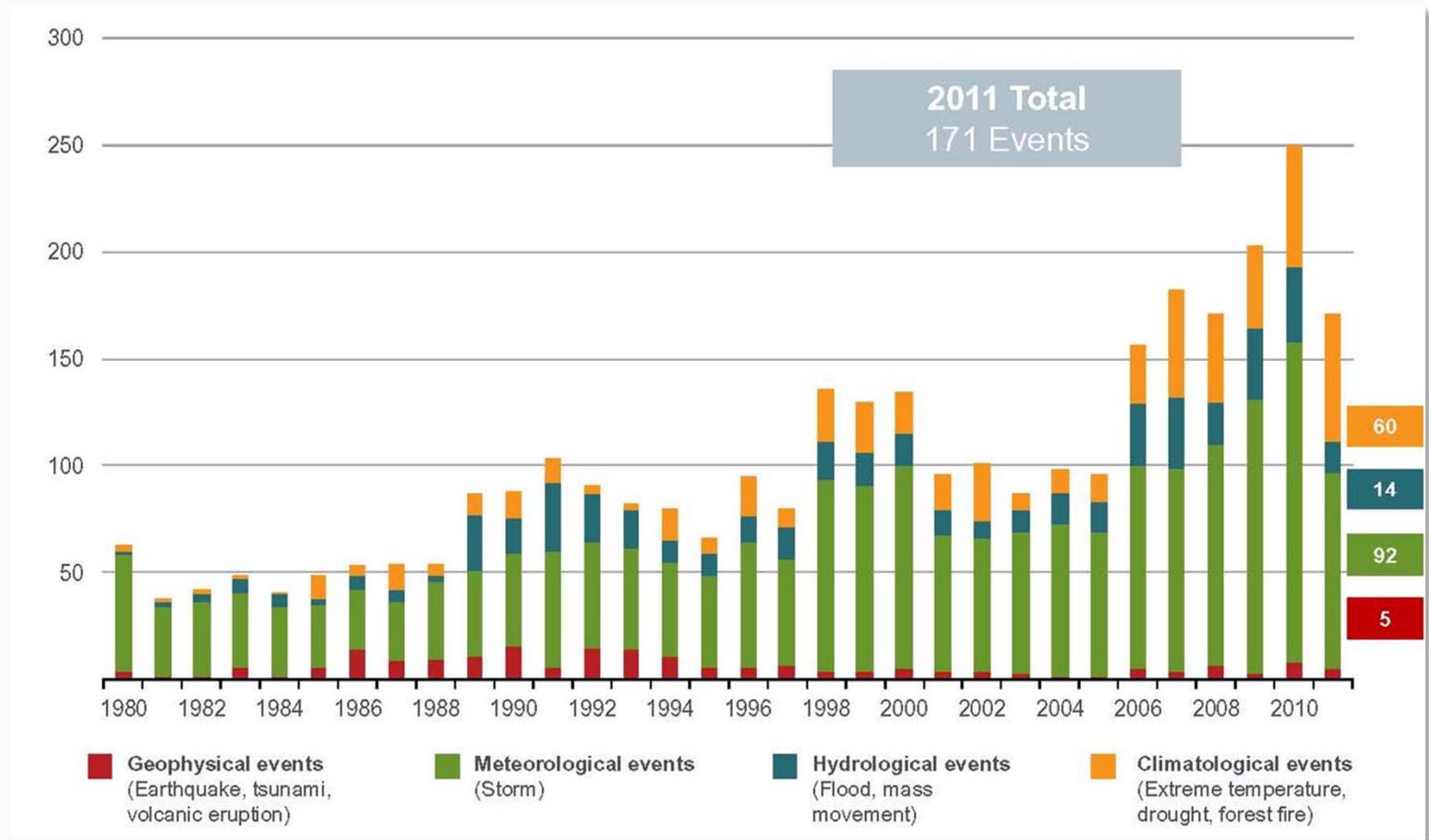
A Changing World

Increased Vulnerability to High-Impact Weather

U.S. Natural Catastrophe Update

Natural Disasters in the United States, 1980 – 2011

Number of Events, Annual Totals



Weather-Ready Nation

A Weather-Ready Nation – a society that is prepared for and responds to weather related events



FY 2013 Budget



FY 2013 NOAA Budget Overview

- FY 2013 Request is for \$5.1B, an increase of \$153.9M over the FY 2012 Estimate
 - *Satellites that provide environmental observations to protect life and property*
 - *Stewardship of healthy oceans and coasts to promote vibrant coastal economies*
 - *A Weather-Ready Nation – that is prepared for and responds to weather-related events*



FY 2013 NOAA Budget Overview

- FY 2013 Budget provides \$972.2M, reflecting a net decrease of \$19.7M
- (-2.0%) over the FY 2012 Estimate
 - *Support Administration, Department of Commerce, and NOAA priorities*
 - *Provide funds for critical infrastructure support*
 - *\$10.1M Adjustment to Base*

Program Change Highlights (ORF)

(\$ in millions)	Program Change
Local Warnings and Forecasts Base: Tropical Atmosphere Ocean Array	\$2.4
Local Warnings & Forecasts Base: Operational and Organizational Efficiencies in Information Technology	(\$2.0)
Local Warnings & Forecasts Base: National Data Buoy Center Sustainment	(\$2.0)
Local Warnings and Forecasts Base: Establishment of Regional Information Technology (IT) Collaboration Units	(\$9.7)
Air Quality Forecasting: Reduction to the National Air Quality Forecasting Capability	(\$3.1)
Sustain Cooperative Observer Network	(\$0.9)
NOAA Profiler Network	(\$2.4)
Strengthen U.S. Tsunami Warning Program	(\$4.6)
Weather Forecast Office Maintenance	(\$0.8)
Central Forecast Guidance: Hurricane Forecast Improvement Project	(\$0.4)
Net of minor changes less than \$100 thousand	\$0.3
Termination of Congressionally Directed Programs	(\$13.0)
Subtotal ORF*	(\$36.0)



Program Change Highlights (PAC)

(\$ in millions)	Program Change
Advanced Weather Interactive Processing System Tech Infusion	(\$3.5)
Next Generation Weather Radar: NEXRAD Product Improvement	(\$5.8)
NWS Telecommunications Gateway Legacy Replacement: NWS Telecommunications Gateway (TG) and Backup Telecommunications Gateway (BTG)	\$7.0
Weather and Climate Supercomputing: NOAA High Performance Computing	(\$2.0)
NOAA Profiler Conversion	(\$1.7)
Ground Readiness Project	\$12.4
Subtotal PAC*	\$6.3



Budget Summary

- Maintain critical weather forecasts and warnings
- Progress toward a Weather-Ready Nation
- Achieve efficiencies and savings
- Ensure capacity for improved satellite information
- Implement a re-architected Telecommunications Gateway



Building a Weather-Ready Nation *Initiated a National Conversation*



National Conversation:

- Improve public understanding of increasing vulnerability to extreme weather
- Stimulate discussion with public, partners, and stakeholders on solutions for reducing impacts

Evaluate opportunities for improving:

- **User-driven impact-based forecasts/warnings**
- **Integration of social and natural sciences into services**
- **Service delivery across the weather enterprise**
- **Community planning and impacts mitigation**



WRN National Conversation

Key Actions from Norman Symposium

- 1. Integrate social and physical sciences – from research to operations**
- 2. Review strategies to reduce false alarms**
- 3. Update warning dissemination strategy**
- 4. Advance physical modeling of severe weather (Warn on Forecast)**
- 5. Improve outreach and education to supported agencies and groups: FEMA, emergency managers, threatened communities.**
- 6. Evolve the NWS Service Assessment following major severe weather outbreaks into one more like the NTSB assessments following major transportation disasters.**



Future WRN Conversations



Ready
Responsive
Resilient

13-15 December 2011

Weather Ready Nation – A Vital Conversation (held in Norman)

23 January 2012

AMS Town Hall to report on Norman Workshop outcomes to the community

1-3 March 2012

National Severe Weather Workshop in Norman

10-12 April 2012

AMS Washington Forum “Towards a Weather, Water, and Climate Ready Nation”

24-26 April 2012

Workshop on Social and Physical Sciences





Photo Credit: Associated Press

