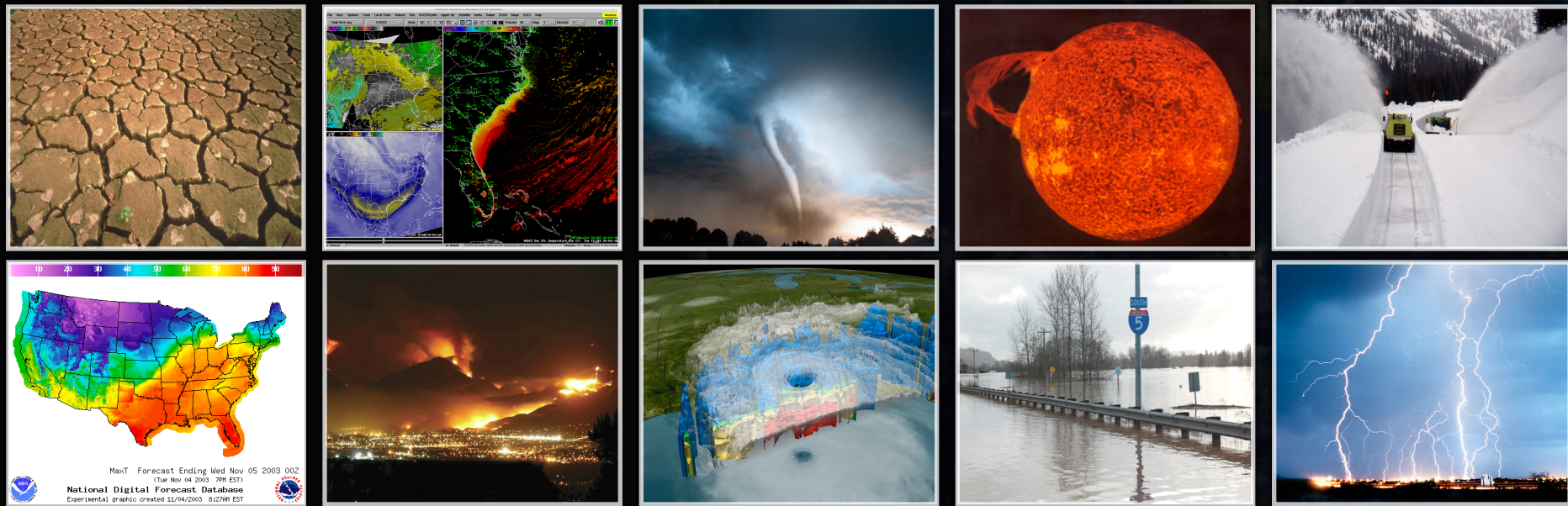


National Weather Service: Strengthening Our Value to Society Update on Weather-Ready Nation Activities



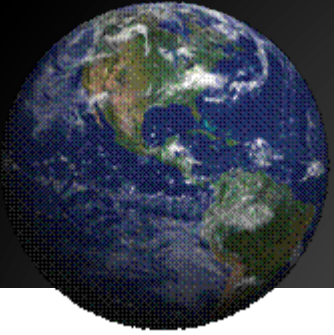
Dr. Louis W. Uccellini

NOAA Assistant Administrator for Weather Services

Director, U.S. National Weather Service

AMS Washington Forum, Washington, DC

April 2, 2014



NWS Strategic Outcome: A Weather-Ready Nation

Becoming a Weather-Ready Nation is about building community resiliency in the face of increasing vulnerability to extreme weather:

“Ready, Responsive, Resilient”



Built on “Impact-based Decision Support Services” (IDSS)

- Focused on the “Last Mile” of the Forecast Process
- Prediction; Impacts linked directly to decision-makers

Working to achieve far-reaching national preparedness for extreme weather events



Ongoing Efforts to Improve Impact-Based Decision Support Services

Building off National Conversation Norman Meeting – December 2011

- Focus on the “last mile”
- Refining the warning messages
- Multiple dissemination paths
- Expanding partnerships:
Sciences → Services → Delivery → Response
- Practice, Practice, Practice...
 - Moore, Oklahoma Medical Center.



Moore, OK Medical Center

“The information you and the weather service provided us ultimately saved more lives than we could ever count.”

--Shane Cohea, Moore Medical Center

Award-winning WCM Rick Smith worked with Moore Hospital months before it took a direct hit




Information Delivery → Success

Midwest Tornado Outbreak

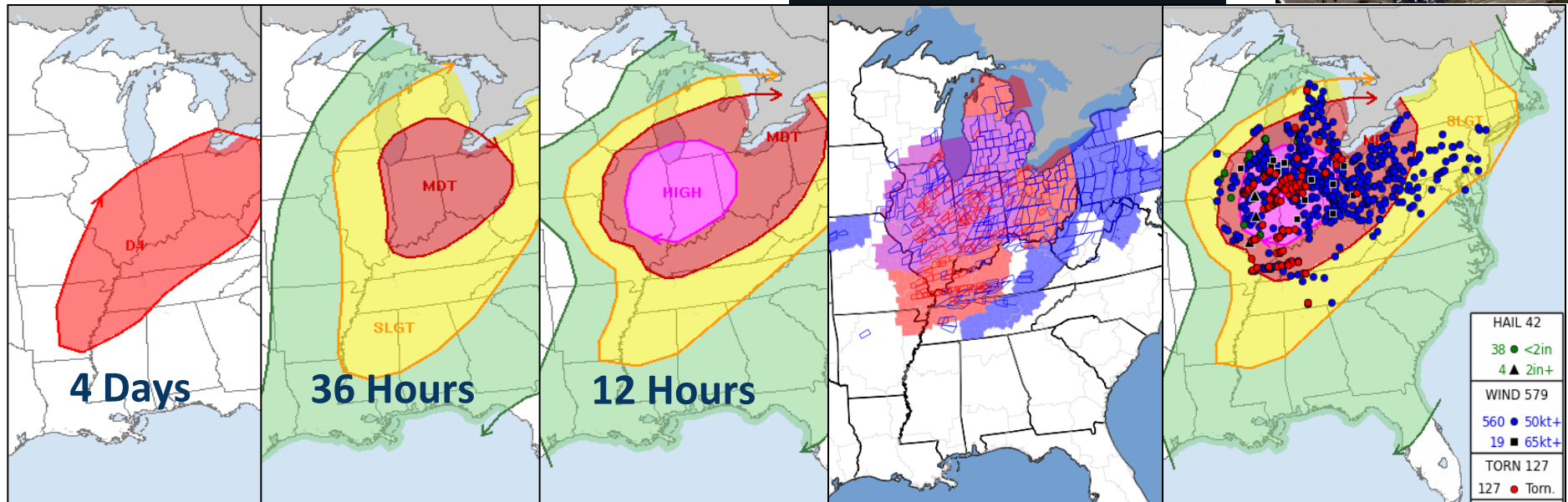
November 17, 2013

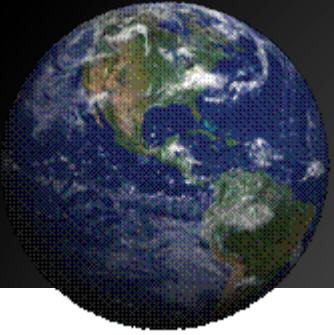
- 4th Largest November Tornado Outbreak: ~71 tornadoes, **6 fatalities**
- Coordination calls with FEMA and state emergency managers 3 days in advance
- Successful dissemination - Washington, IL

<  Extreme alerts

03/04/2013 Mon

Wireless Emergency Alerts (WEA)
Tornado Warning in this area til 10:45 AM CST.
Take shelter now. Check local media. -NWS





Weather-Ready Nation: “Can’t Do It Alone”

Weather Enterprise Collaboration

Open Weather & Climate Services

- Weather Enterprise initiative seeks:
 - More comprehensive access to NOAA information
 - More symbiotic development
- NWS working to set up 1-2 year experiment to enhance access to high-resolution operational model data
 - Publish participation rules in April
 - Establish in June
- Big Data RFI issued to inform feasibility of new partnerships to improve access to / use of large NOAA data holdings

Describing Decision Services

- Broad support for Decision Support Services (DSS), but details matter
- NWS published Service Description Document (SDD) for proposed NWS DSS for Emergency Management Community in 2013
 - Comments received made it clear initial SDD was inadequate
 - New SDD in preparation
 - Another round of comments will follow
- Coming attractions - SDDs for other communities (e.g. water managers)

Are you a Weather-Ready Nation Ambassador?





Integrated Water Resources Science and Services (IWRSS) Partners and Missions



- **Water Science** - to collect and disseminate reliable, impartial, and timely information needed to understand the Nation's water resources in order to minimize loss of life and property from natural disasters



**US Army Corps
of Engineers**

- **Water Management** - to strengthen our Nation's security, energize the economy, and reduce risks from disasters



- **Water Prediction** - to provide weather, hydrologic, and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas, for the protection of life and property and the enhancement of the national economy

**IWRSS Partnership
will expand over time**



National Weather Service



Weather-Ready Nation: “Can’t Do It Alone”

National Water Center

February 2014

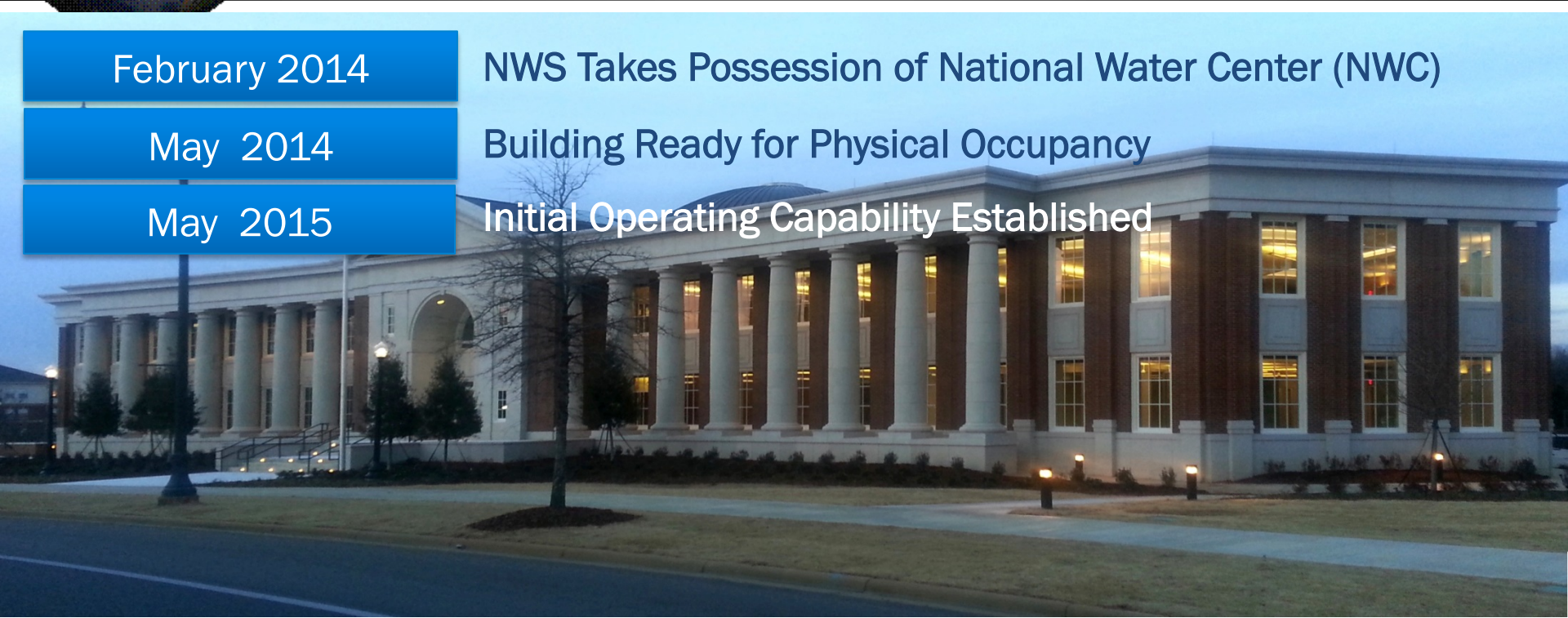
NWS Takes Possession of National Water Center (NWC)

May 2014

Building Ready for Physical Occupancy

May 2015

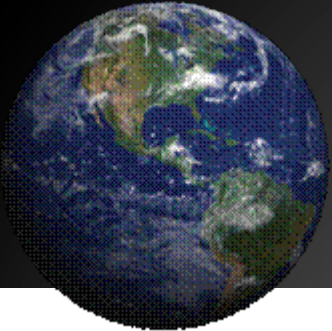
Initial Operating Capability Established



MISSION: Deliver state-of-the-science, summit-to-sea, treetop-to-bedrock hydrologic analyses, forecast information, and decision support services to address the Nation’s growing water resources challenges.

VISION: Serve as the Nation’s premier site for integrated water resources science and services and the most trusted and authoritative source for water resources information.



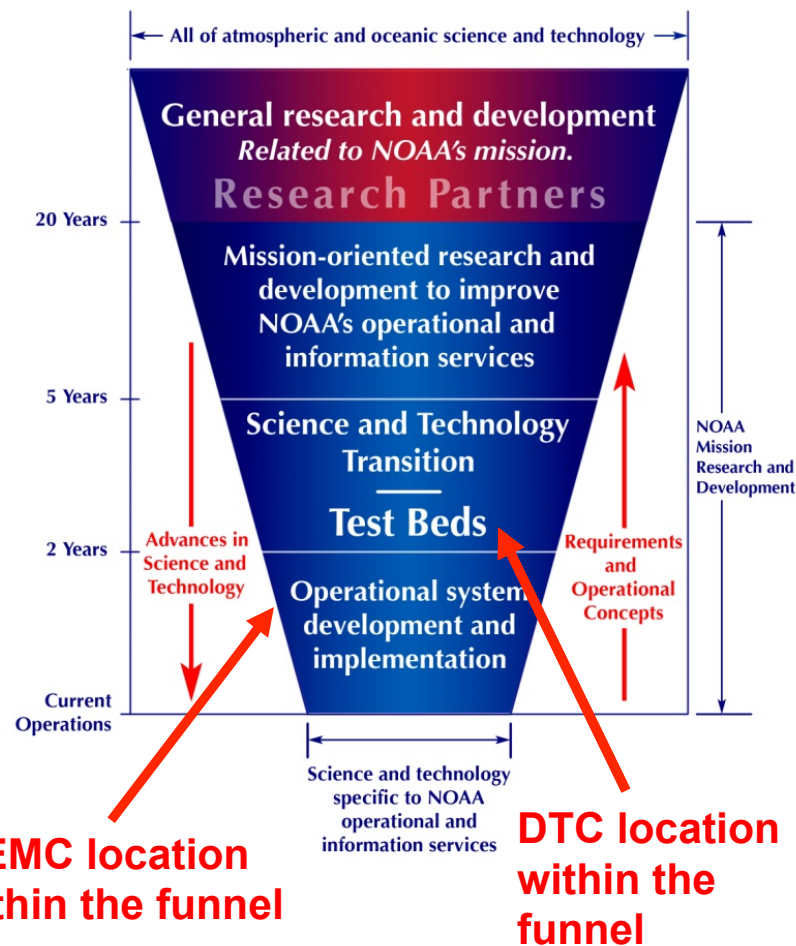


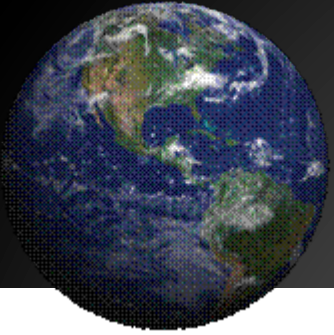
Improved Research to Operations (R2O)

To accelerate R2O...

- Community-based models
- Provide data “open weather and climate”
- Open up the review/development process (UCACN Review; EISWG; FIG)
- Support an infrastructure that engages the larger research and observation communities (TestBeds)
 - E.g. JCSDA (JPSS, GOES-R; COSMIC, GPM, SMAP)

...must support O2R



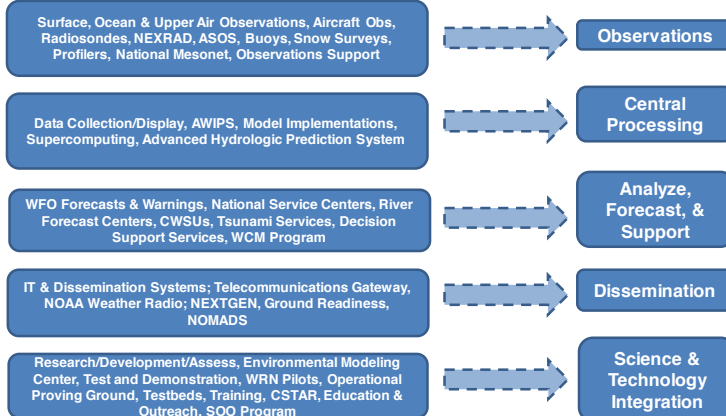


Budget Update

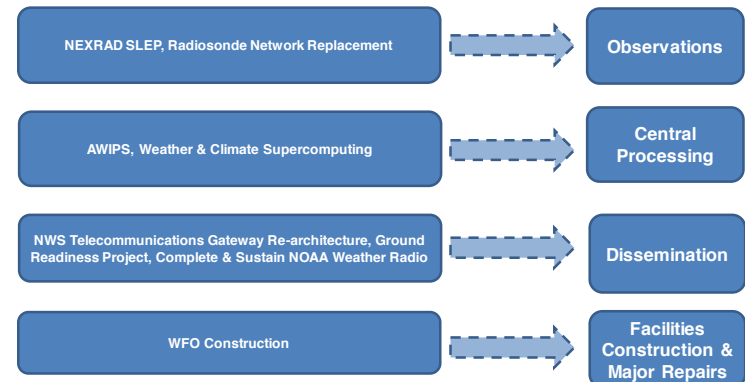
- FY 2015 Budget Request provides \$1,063.3 million total for NWS; a \$3.9 million decrease (0.4%) from the FY 2014 Enacted
- OMB has accepted restructured Budget for FY 15 submission to Congress:

ORF

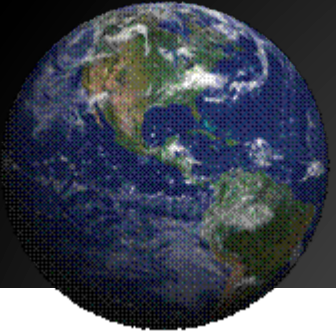
Existing ORF Programs



PAC



- Discussion with House and Senate Ongoing to accept this budget structure for FY15 Appropriation



Summary

- FY14 Budget and Sandy Supplemental have provided a major boost to NWS – working towards implementation of higher resolution models (GFS, HRRR, HWRF...)
- New Budget Structure Accepted by OMB proposed to Hill for FY15 Budget Appropriation; now working on the NWSH Re-org and Governance Document
- WRN progress being made;
 - Extreme weather events arena remains the focus
 - National Water Center provide basis for interagency approach to address IDSS for entire Water Community

THANK YOU!



National Weather Service