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U.S. National Weather Service Weather Ready Nation Initiative

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Recommended Citation

Salzwedel, Jim, "U.S. National Weather Service Weather Ready Nation Initiative" (2013). DRU Workshop 2013 Presentations – Disaster Resistant University Workshop: Linking Mitigation and Resilience. Paper 26.

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National Oceanic and Atmospheric Administration

Be a Part of Building a Weather-Ready Nation: NWS Roadmap and Pilot Projects



Jim Salzwedel

National Weather Service WFO New Orleans/Baton Rouge







Looking Forward

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



NOAA's NWS is developing new decision support services, improving technology to track and forecast storms, and expanding its dissemination efforts to achieve far-reaching national preparedness for weather events.





Emphasis on Decision Support Services







- Provide superior decision support and foundational information services
 - NWS will use our unique, local relationships with Core Partners to help them to better prepare our communities for extraordinary events
 - Invest in Science and Technology
 - Use state-of-the-art technology and cutting-edge science to provide the best service possible
 - Empower our workforce
 - Workforce is trained and equipped to meet America's evolving needs
 - Emergency Response Specialists (ERS) are accessible on-site and through remote technologies to provide Impact-based Decision Support Services (IDSS)





National Weather Service Pilot Projects







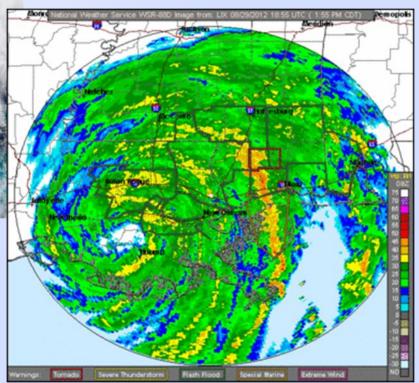
- NWS Operations Center Silver Spring, MD
- **Regional Operations Center Ft Worth, TX**
- Impact-Based Decision Support Services in a Coastal Environment – New Orleans, LA
- Impact-Based Decision Support Services in an Urban Environment – Baltimore, MD/Washington DC
- Integrated Environmental Services Tampa, FL
- Mesoscale Meteorology Science to Operations – Charleston, WV





WFO New Orleans/Baton Rouge Hurricane Isaac Support









Big Impact

Storm Surge 6 to 12 feet. 8.2 feet was a new record for Lake Pontchartrain

Rainfall 10-20 inches – locally higher

Historic river flooding event

Two potential dam compromises \rightarrow warnings/evacuations with each Three tornadoes on the MS coast \rightarrow including an EF-2 in Pascagoula

Over 12,000 homes flooded – including 7,000 in LaPlace alone

4 fatalities

Around 1 million power outages





"Out of the box storm surge"





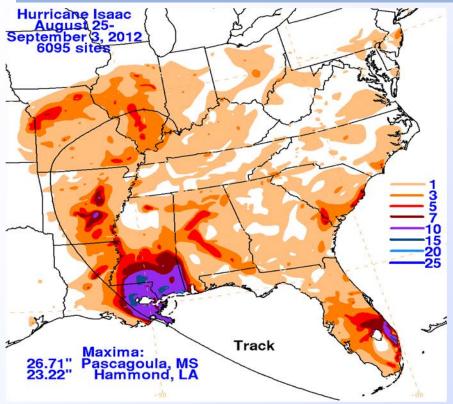


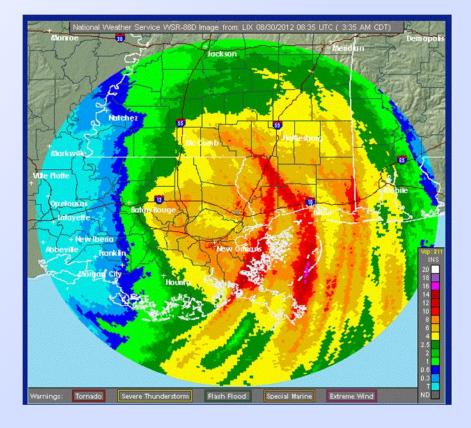






Rain (26.71 Pascagoula/20.68 Carrollton New Orleans)









Record River Flooding

Historic River Flooding

Location	Crest (feet)
Wolf near Landon	31.36 (record)
Wolf near Gulfport	16.50 (record)
Hobolochitto near Caesar	21.48 (record)
Tangipahoa near Kentwood	16.86 (major)
Tangipahoa near Robert	24.02 (major)
Amite near Maurepas	7.48 (major)
Pearl near Pearl River	18.54 (major)
Bogue Chitto near Tylertown	29.81 (major)
Bogue Chitto near Franklinton	22.13 (major)
Bogue Chitto near Bush	19.82 (major)
Biloxi near Wortham	26.38 (major)
Tchefuncte near Covington	26.81 (moderate)
Bogue Falaya at Camp Covington	55.15 (moderate)
Jourdan near Kiln	9.69 (moderate)





Deployments

Louisiana Governor's Office of Homeland Security – 2 Meteorologists

New Orleans Emergency Operations Center – 2 Meteorologists

Mississippi Crisis Action Center – 2 Meteorologists, Port Meteorological Officer

SWERV – Pearl River support – 1 Meteorologist and 1 Hydrologist from the Lower Mississippi River **Forecast Center** 10







Meanwhile, back at the office....

12 Hour Shifts

Coordinator

Digital

Decision Support

Public Service

Radar

Emergency Response

HAM





Briefings (Power Point Updates Every 6 Hours)







Briefing Schedule Monday August 27, 2012 0800 Federal Executive Board (KEG) 0830 SE LA Hurricane Task Force (MM) 0900 USCG Command (FR) 1000 Unified Command Group (KEG) 1015 MS Gulf Coast (KEG/FR/PBJ) 1030 USCG/Ports/Waterways Management/Shallow and Deep Draft Vessels (FR) 1100 Jefferson Parish 1300 USCG/Ports/River Pilots (FR) 1330 WeatherNation (KEG) 1400 WFO Webinar MS/LA (DSS Desk) 1600 MEMA Command Briefing (FR) ***Media cut ins*** (KEG)

Minor Impacts

Deployments Mississippi Crisis Action Center activation 0700 (Bannan, Efferson)

LA GOHSEP activation 0800 (Moreland, Grigsby) SWERV deployed to Louisiana State Police Headquarters (DeArmas)

New Orleans EOC/mayor. activation 1200 (Erickson, Zeigler)

Jason Dunn (WFO FWD) deployed to WFO LIX to help with scheduling gaps beginning 8/28

Full Engagement





In action...





Summary

Tooding of rivers and low lying areas will ontinue. Excessive runoff into area livers with several gages to have major looding. The Pearl River will be the ardest hit area.

Hot and humid with scattered (30%) daytime showers/t-storms through Wednesday. Heat index over 100 ea afternoon.







047-12

In action...







In action...









Highlights...

WFO LIX - Isaac DSS Highlights

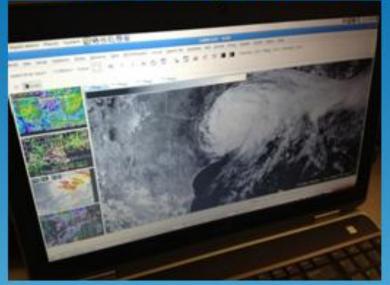
 Over 350 formal/informal briefings + nearly 100 from office O Press conferences O 95 media interviews AWIPS thin client test O Face-to-face audience with Governors of Louisiana and Mississippi - Mississippi and Louisiana Emergency Management Directors Mayor of New Orleans US Senator





Deployment Laptop

WFO LIX – Deployment Laptop



- O RedHat 5 OS Linux version of AWIPS thin client, Pidgin
- Virtual Windows for other software (GR2Analyst, HurrEvac)
- O D2D/CAVE with LIX localization → Radar, lightning, model, satellite data





Lessons Learned

- WFO LIX Isaac DSS Lessons Learned
- O Social science categories vs. impacts
 O Social media staying on top of message (e.g. rumors going "viral" during dam failure threats)
 O Storm surge graphics
 O Deployment protocol/etiquette training
 O Further improvements to coordination/communication
- Dam failure threat best practices





"New" From Our Pilot Project

Navy Week Deployment Final Four Deployment Superbowl Deployment AWIPSII Thin Client Mississippi River Navigation Forecast Emergency Management Mobile Tool HPAC Plume Modeling Tropical Training Exercises

We are in the game!!







Homeland Security Support of Superbowl XLVII

Deployed with the United States Coast Guard Deployed with New Orleans Emergency Operations Center Deployed with Federal, state, and local DHS

Ran contingency plume models





Homeland Security Support of Superbowl XLVII











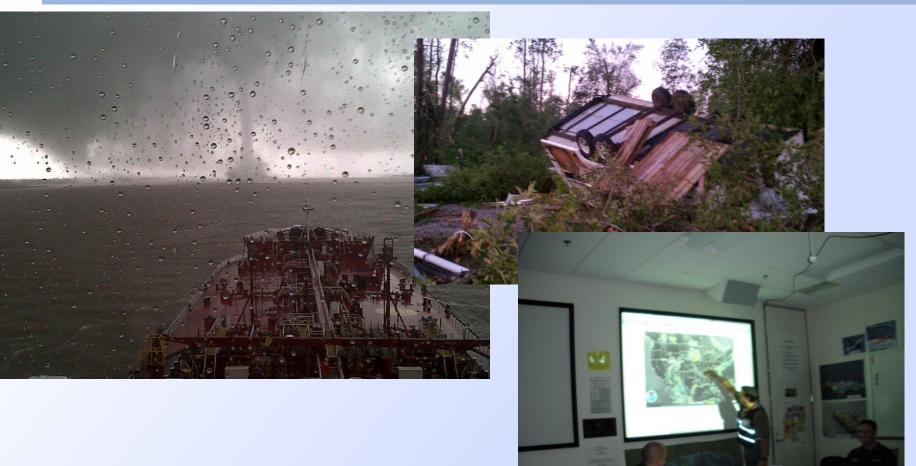




















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