

NOAA's National Weather Service

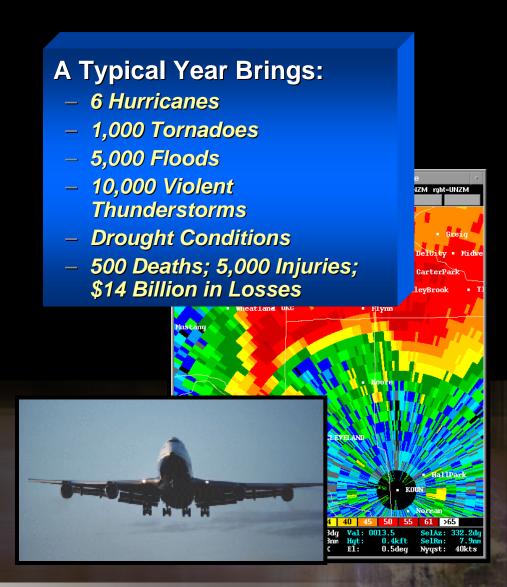


Serving the Nation's Environmental Forecasting Needs

Lynn Maximuk
Regional Director
National Weather Service
Central Region Headquarters
Kansas City, Missouri

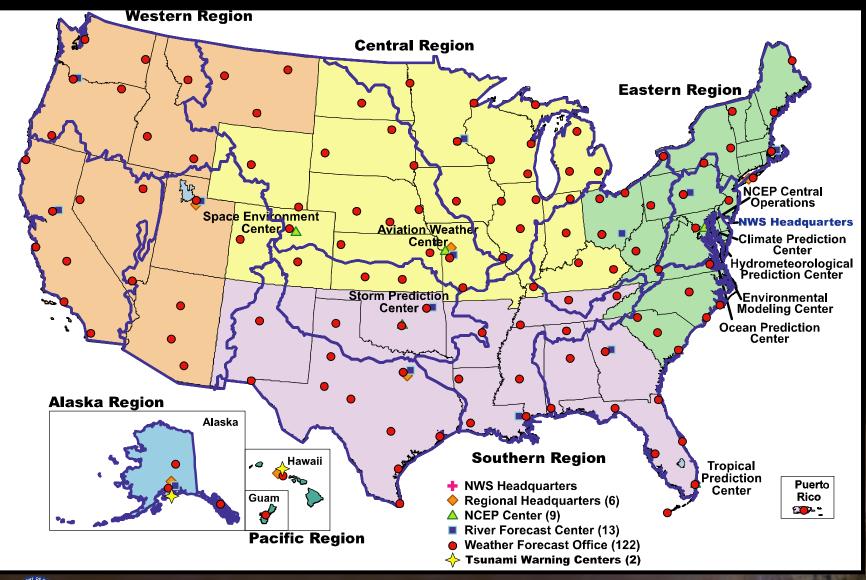
NOAA's National Weather Service

- Provide climate, water, weather forecasts and warnings to protect life and property and enhance the economy
- 76 billion observations
- 1.5 million forecasts
- 50,000 warnings





NWS Facilities



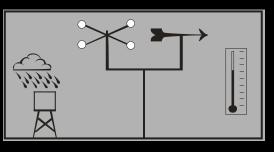




NWS Products and Services

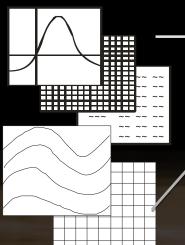
Weather Forecast Offices



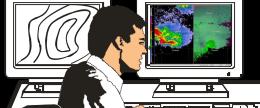


(many observations)





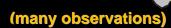
NCEP Weather and Climate Graphical and Gridded Products







- River & Flash Flood Forecasts and Warnings
- Service Hydrologist Customer Coordination
- Warning Coordination Meteorologist Service Coordination / Outreach



Warnings

Public Forecasts



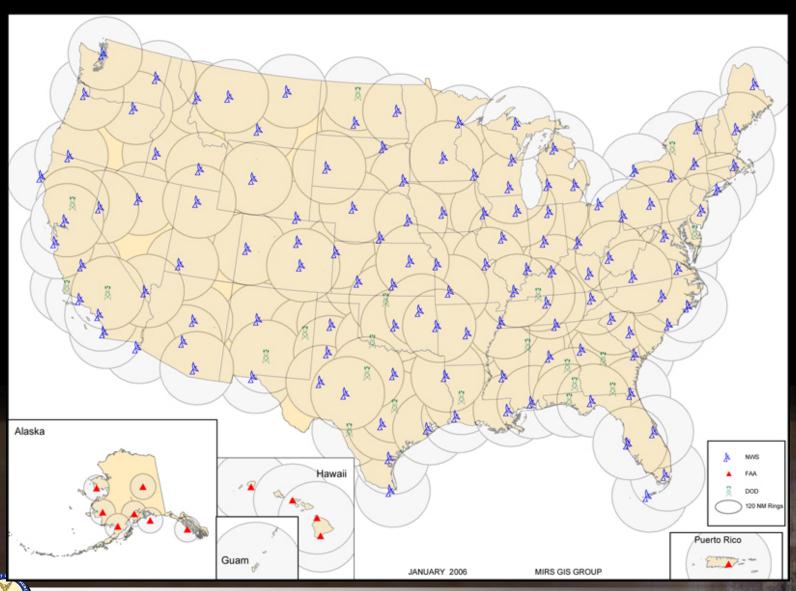


Gridded Products



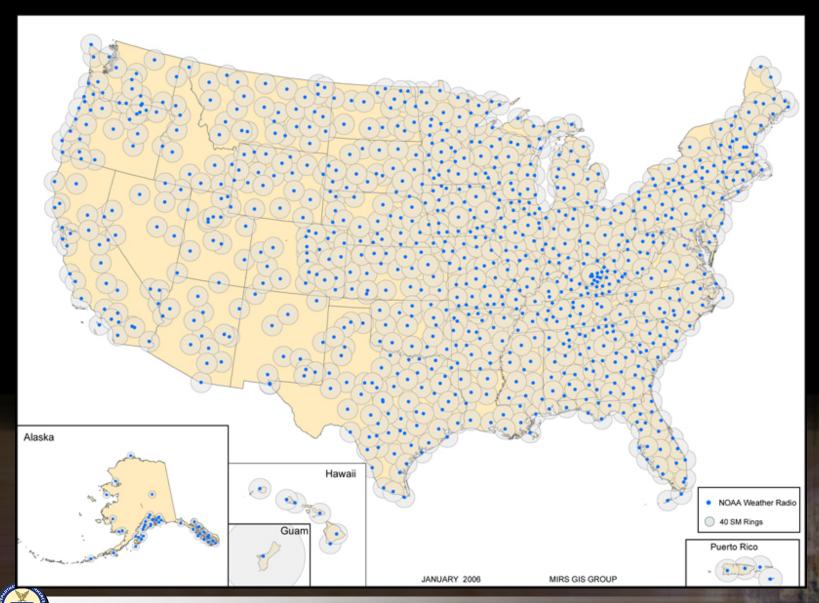


NOAA's Doppler Radars





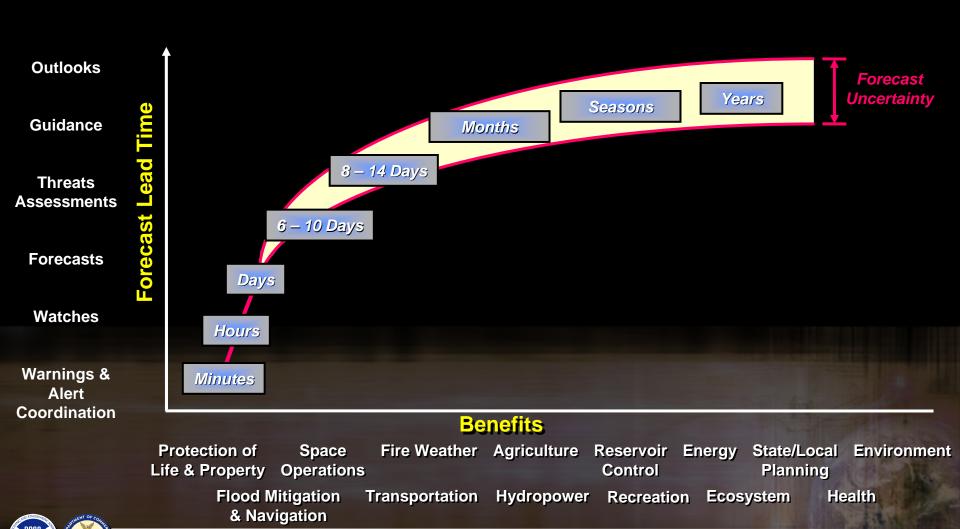
NOAA Weather Radio All Hazards





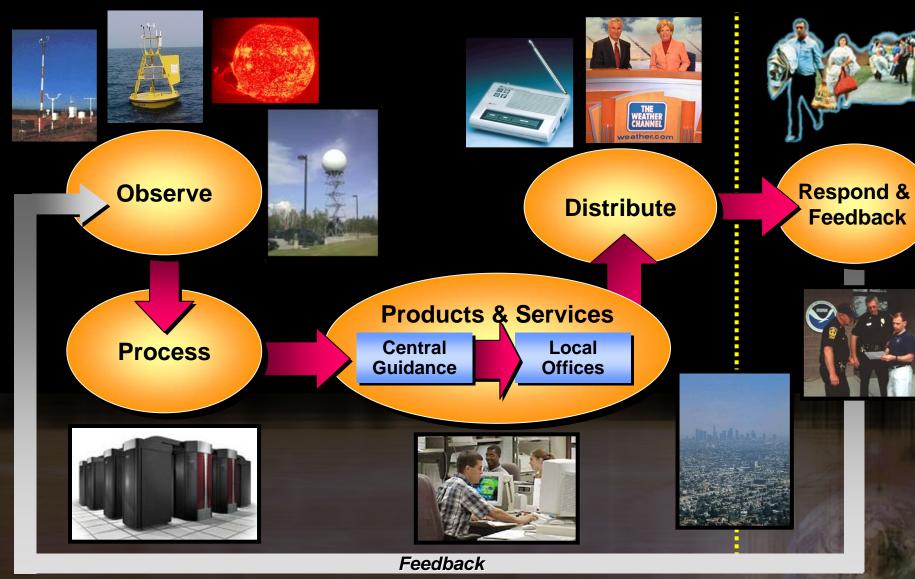
NOAA's NWS Overview

Seamless Suite of Products



"America's Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life"

NOAA's NWS Overview







NWS Watch/Warning Concept

OUTLOOK

READY

WATCH SET

WARNING

GO!

EVENT





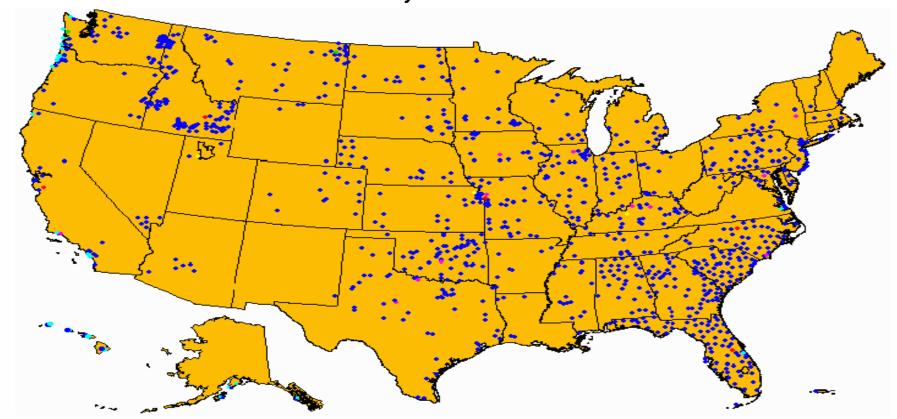
Warning Coordination Meteorologist/Service Coordination Hydrologist

- Promote safety/preparedness
- Work with partners during events
- Provide storm surveys after significant events
- Provide spotter training



StormReady/TsunamiReady Community Preparedness Program

~1500 StormReady Communities in 50 States 67 TsunamiReady Communities in 10 States



Legend

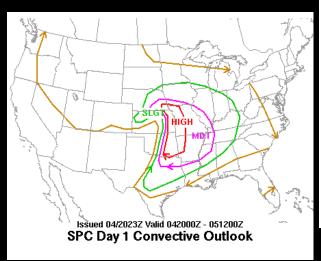
Gold states have StormReady® communities or counties Light Blue dots are TsunamiReady communities Blue dots are StormReady® Communities Red dots are StormReady® Commercial Sites

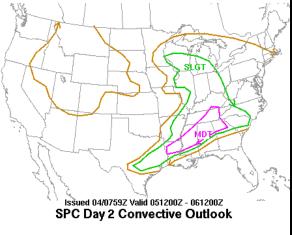
Green dots are StormReady® Indian Nations Purple dots are StormReady® Universities Yellow dots are StormReady® Military sites

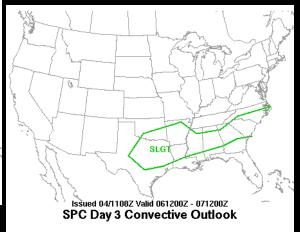




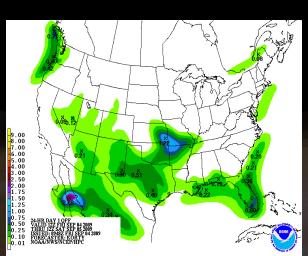
Outlook Products (READY)

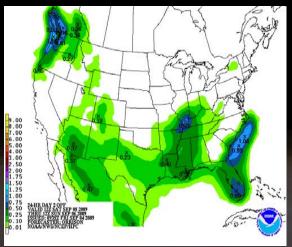






Severe Weather





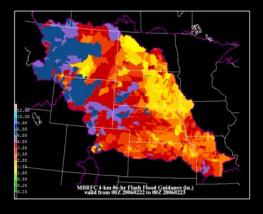
INSTRUMENTATION OF THE PROPERTY OF THE PROPERT

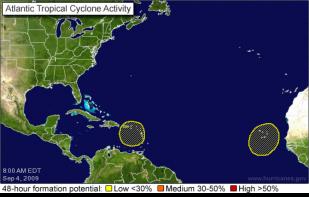
Precipitation





Outlook Products ...cont...

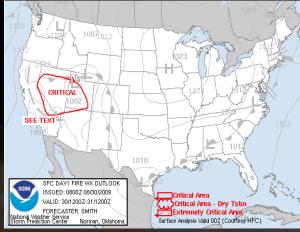




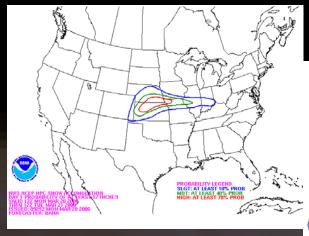


Flash Flood

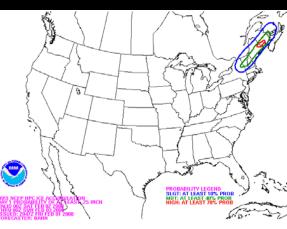
Tropical Weather



Fire Weather



Winter Weather (Snow)







Watch Products (SET)







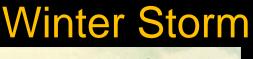
Tsunami

Tornado

Severe Thunderstorm



Fire Weather





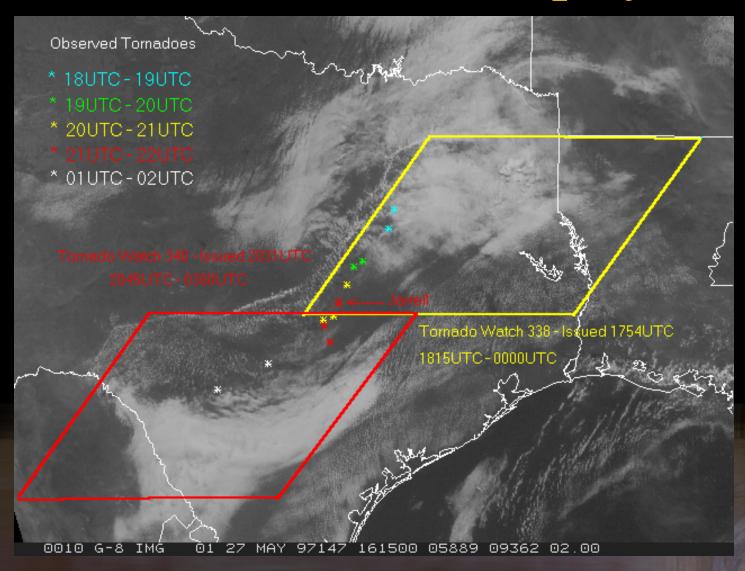


Flood/Flash Flood





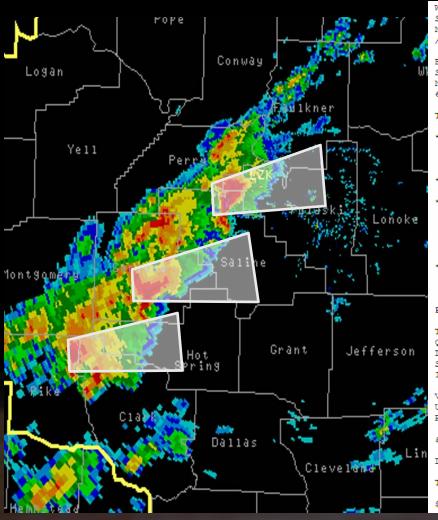
Tornado Watch Display







Severe Storm Warnings (GO)



WUUS53 KBIS 010007 SVRBIS NDC033-087-010100-/O.NEW.KBIS.SV.W.0095.090701T0007Z-090701T0100Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED SEVERE THUNDERSTORM WARNING NATIONAL WEATHER SERVICE BISMARCK ND 607 PM MDT TUE JUN 30 2009

THE NATIONAL WEATHER SERVICE IN BISMARCK HAS ISSUED A

- * SEVERE THUNDERSTORM WARNING FOR... SOUTHERN GOLDEN VALLEY COUNTY IN SOUTHWEST NORTH DAKOTA... NORTHWESTERN SLOPE COUNTY IN SOUTHWEST NORTH DAKOTA...
- * UNTIL 700 PM MDT
- * AT 606 PM MDT...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A SEVERE THUNDERSTORM CAPABLE OF PRODUCING QUARTER TO GOLF BALL SIZE HAIL...AND DESTRUCTIVE WINDS IN EXCESS OF 70 MPH. THIS STORM WAS LOCATED NEAR BEACH...OR 10 MILES SOUTHEAST OF WIBAUX...AND MOVING SOUTHEAST AT 10 MPH.
- THE SEVERE THUNDERSTORM WILL BE NEAR... BEACH NOW. GOLVA AROUND 645 PM MDT.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

THIS STORM HAS EXHIBITED SOME WEAK ROTATION. TORNADOES CAN DEVELOP OUICKLY FROM SEVERE THUNDERSTORMS. ALTHOUGH ONE IS NOT IMMEDIATELY LIKELY...IF A TORNADO IS SPOTTED...ACT QUICKLY AND MOVE TO A PLACE OF SAFETY INSIDE A STURDY STRUCTURE...SUCH AS A BASEMENT OR SMALL INTERIOR ROOM.

VERY HEAVY RAIN...WHICH MAY FLOOD LOW LYING AREAS SUCH AS DITCHES AND UNDERPASSES...IS ALSO LIKELY, DO NOT DRIVE YOUR VEHICLE ON A FLOODED ROADWAY.

LAT...LON 4688 10406 4700 10405 4697 10383 4687 10361 4665 10362 4654 10373 4654 10405 TIME...MOT...LOC 0007Z 309DEG 10KT 4687 10404





Flood/Flash Flood







Flood/Flash/Flood

Where We're Headed

Flood Inundation Mapping

- Provide information on the spatial extent and depth of flood waters in the vicinity of NWS river forecast locations
- Can display flood inundation maps for various levels ranging from minor flooding through the largest flood on record
- Enhance the communication of flood risk and provide information needed to better mitigate the impacts of flooding and build more resilient communities



- Partnered effort with FEMA, USGS, States and other entities
- 47 libraries have been implemented





Customers

- Local, State and Federal Governments
- Emergency Managers
- •First Responders
- Private Sector Information Providers
- Broadcasters and other Media
- Academia
- •General Public



Dissemination Methods

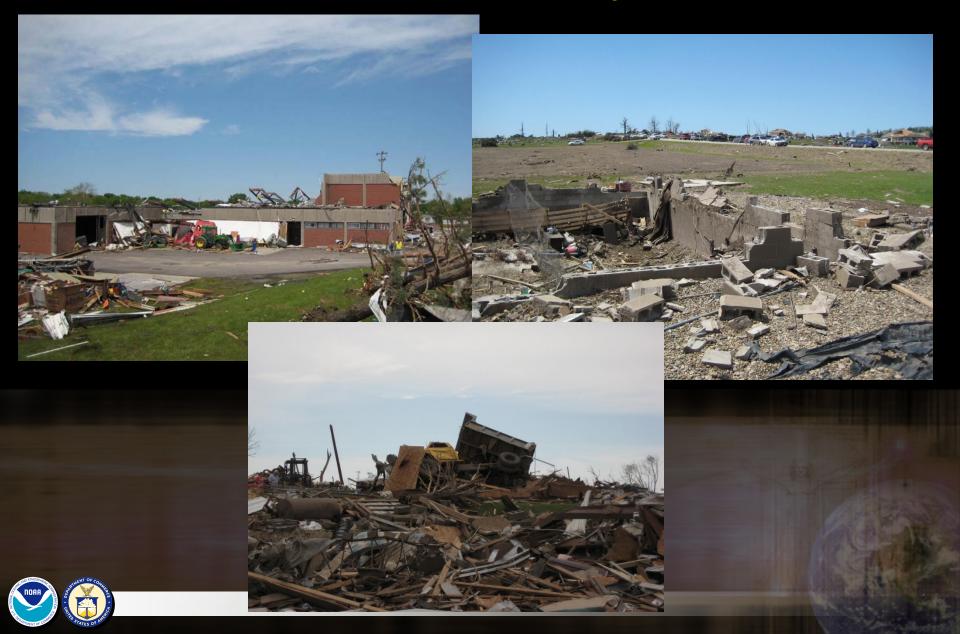
- National Weather Service Controlled Methods
 - ✓ NOAA Weather Radio All Hazards
 - ✓ NOAA PORT
 - ✓ Weather Wire
 - ✓ Emergency Managers Weather Information Network
- Mobile Communication Devices
 - √ Cell Phones
 - ✓ Personal Digital Assistants (PDA)
- •Internet



Storm Surveys/Assessments



Storm Surveys



Our Goal

Saving Lives Through Partnerships





