

NOAA's National Weather Service: *In Your Neighborhood*

November 18, 2004

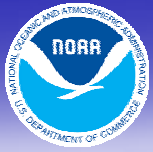
**Brig. Gen. David L. Johnson, USAF (Ret.)
National Oceanic and Atmospheric Administration
Assistant Administrator for Weather Services
Director, NOAA's National Weather Service**



NOAA's National Weather Service

- ✓ About NWS
- ✓ We're In Your Neighborhood
- ✓ Teamwork
- ✓ 2004 Highlights
- ✓ Putting It All Together
- ✓ What's On Your Mind?

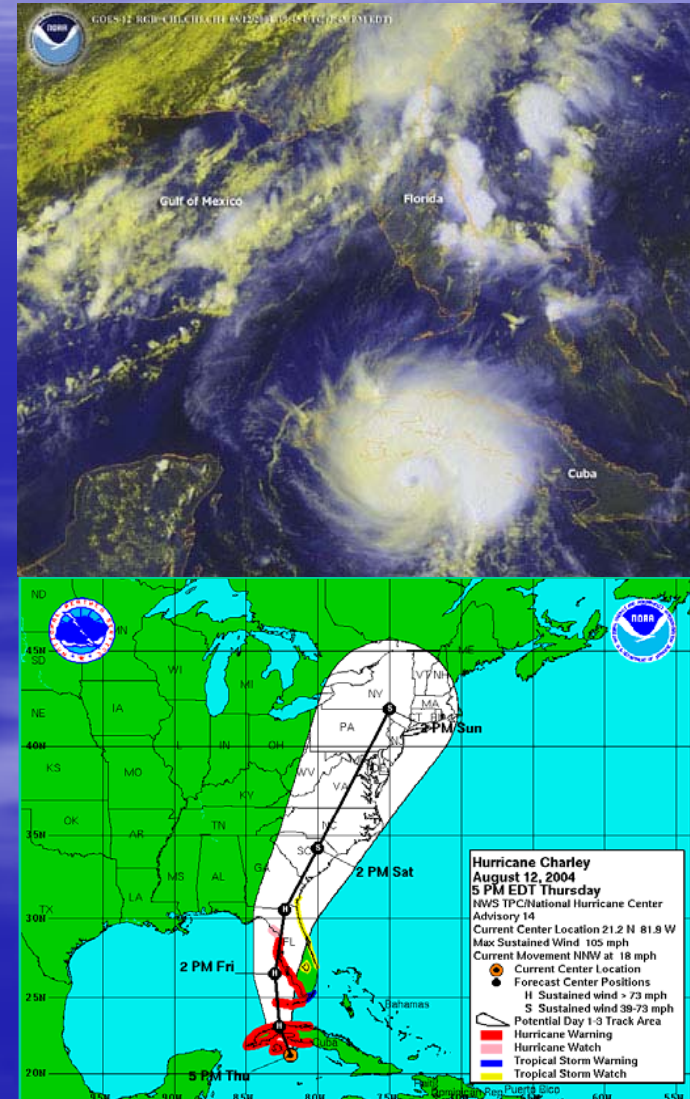




About NWS

Mission and Vision

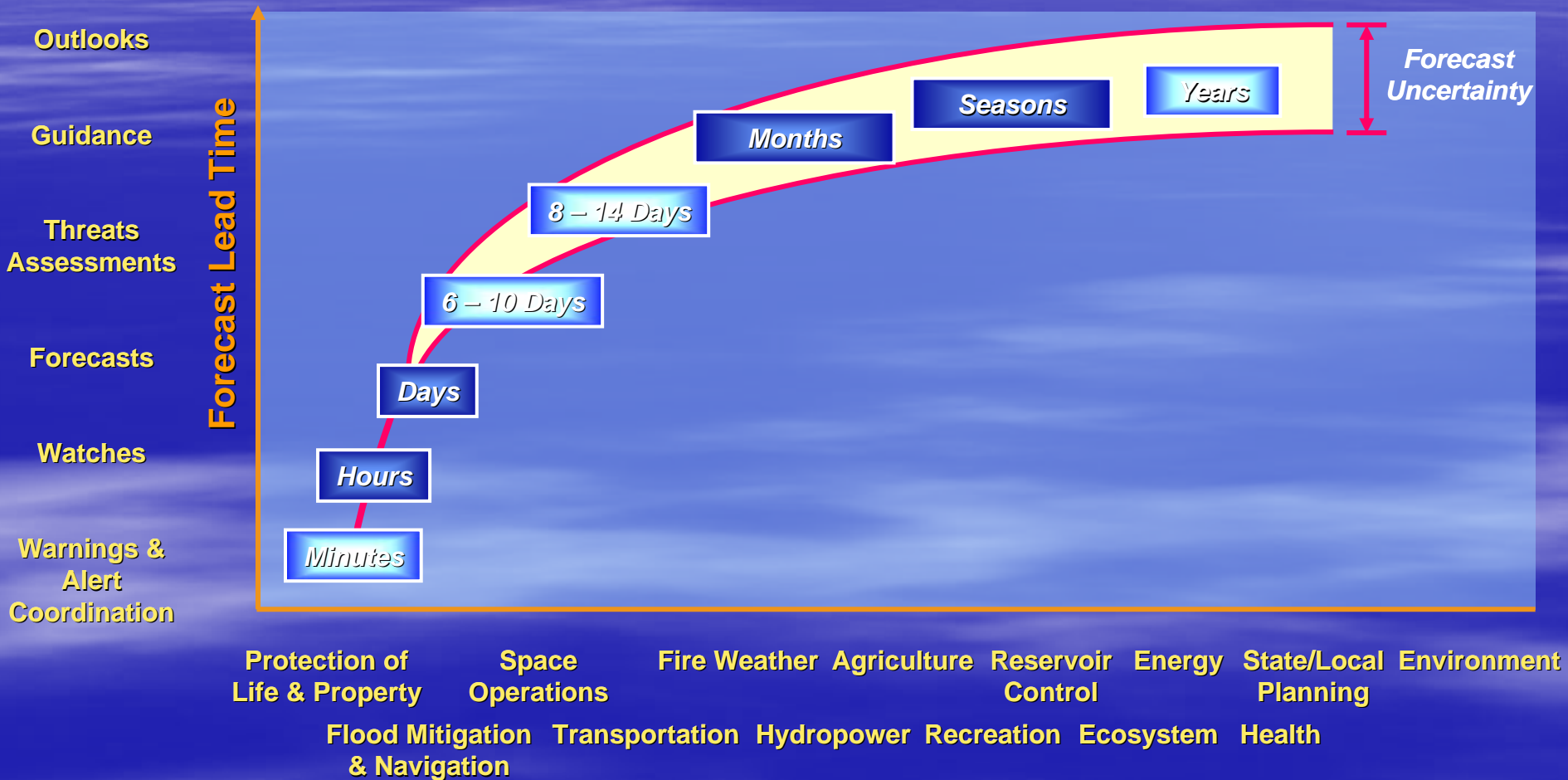
- ✓ Provide forecasts and warnings to protect life and property and enhance our economy
- ✓ Together, provide the best weather, water, and climate information in the world





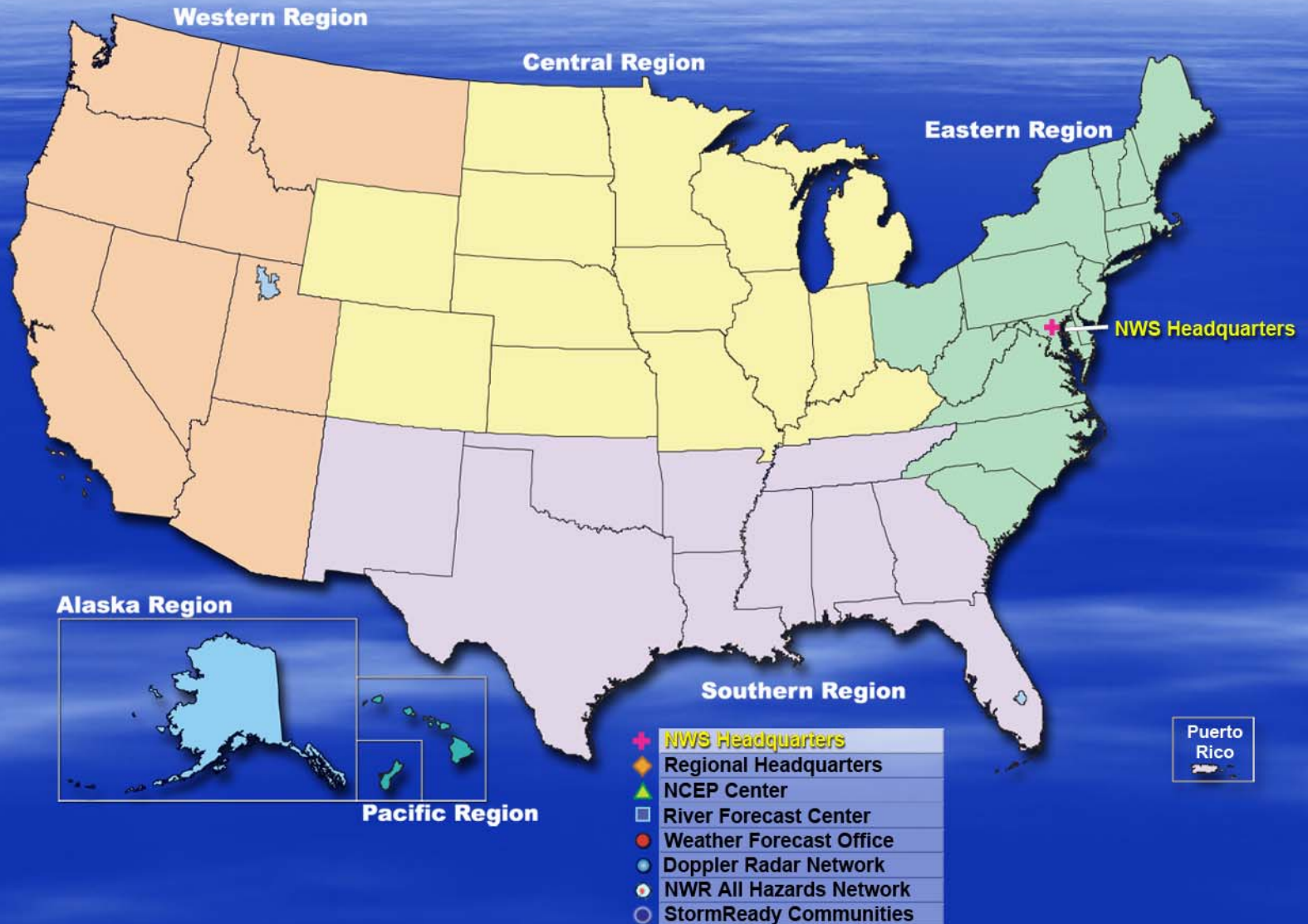
About NWS

Seamless Suite of Products



We're In Your Neighborhood

NWS Headquarters



We're In Your Neighborhood

Regional Headquarters



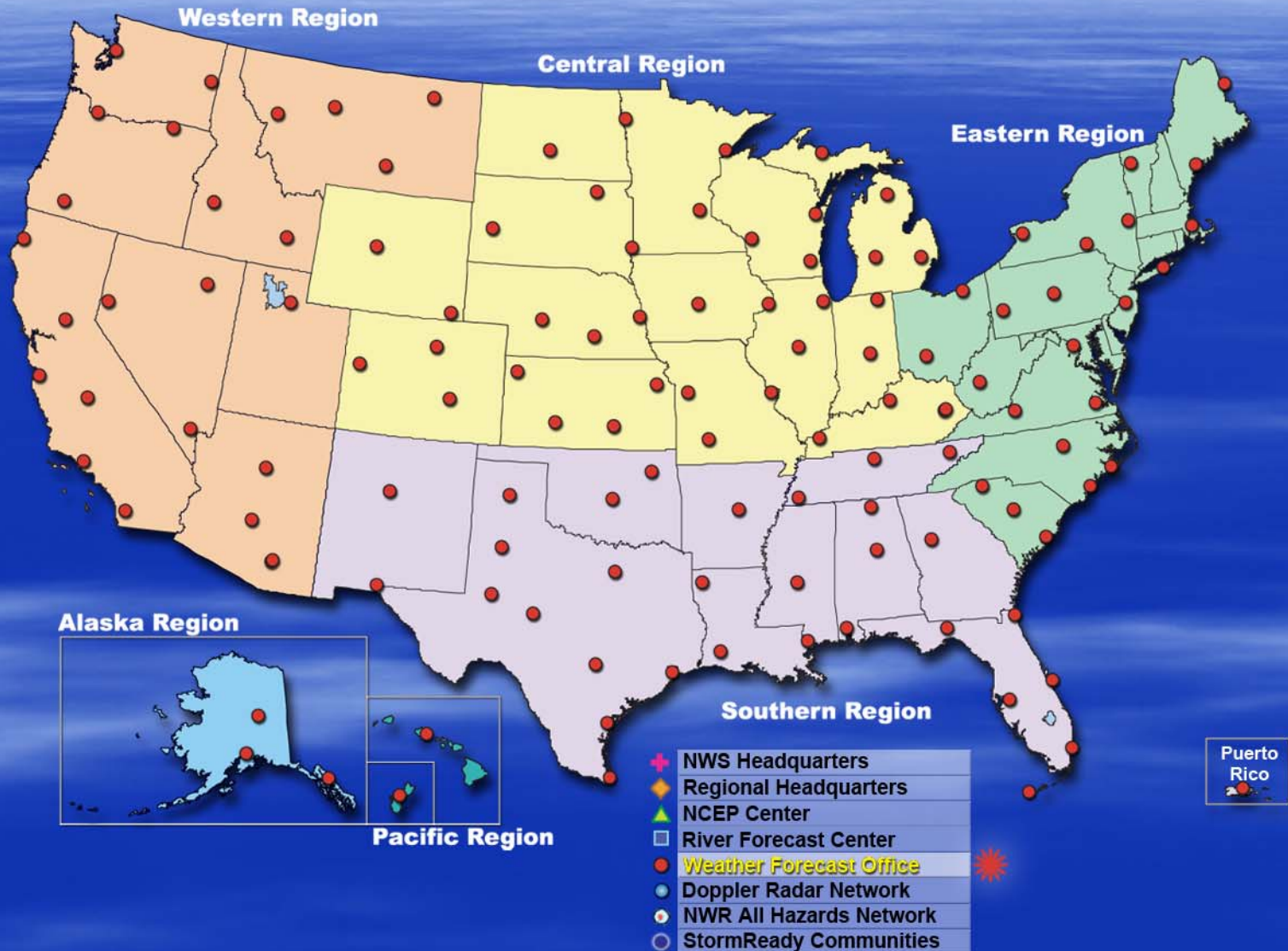
We're In Your Neighborhood

NCEP Centers



We're In Your Neighborhood

Weather Forecast Offices



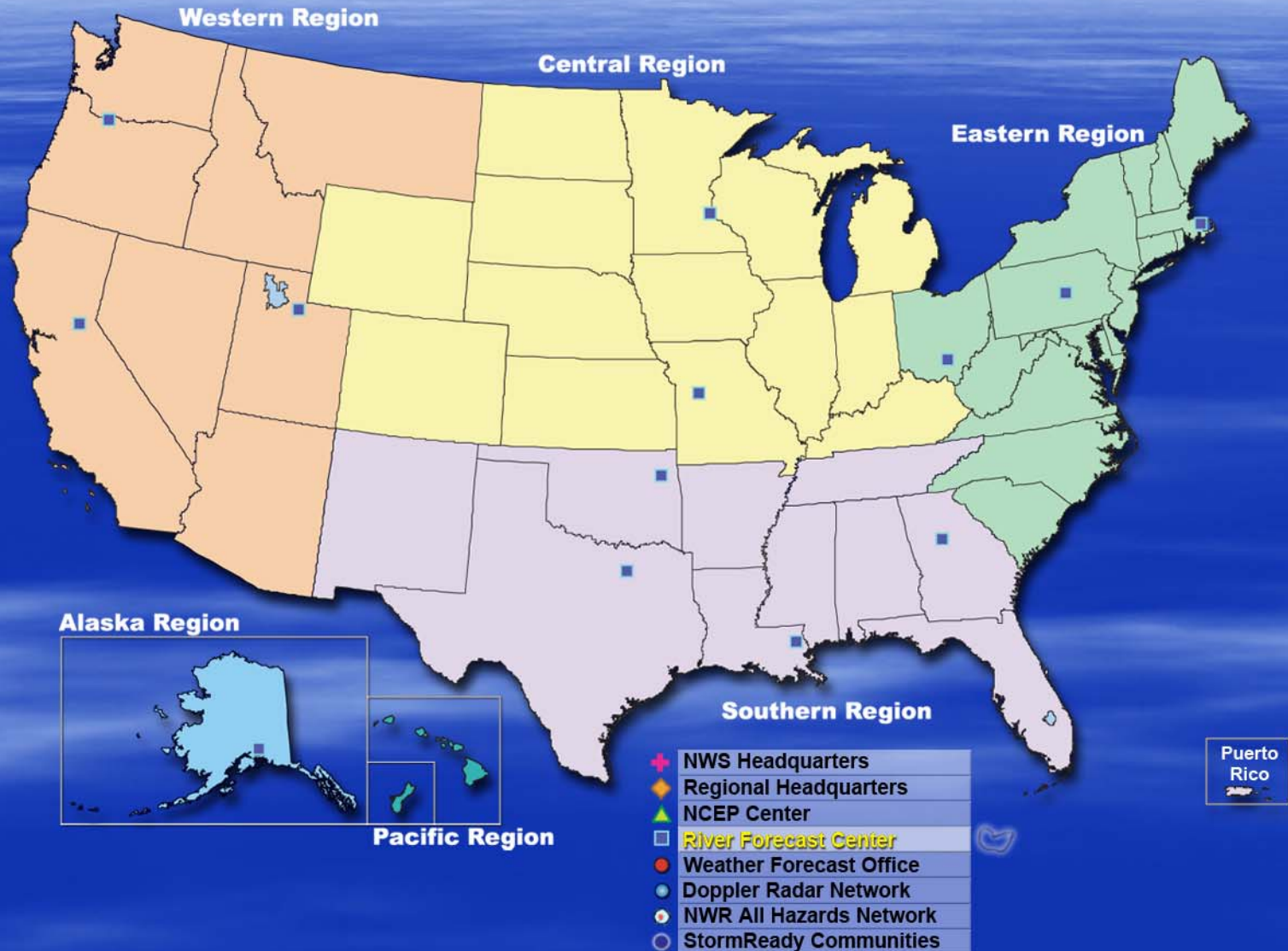
We're In Your Neighborhood

WFO, RFC, NCEP and Headquarters



We're In Your Neighborhood

River Forecast Centers



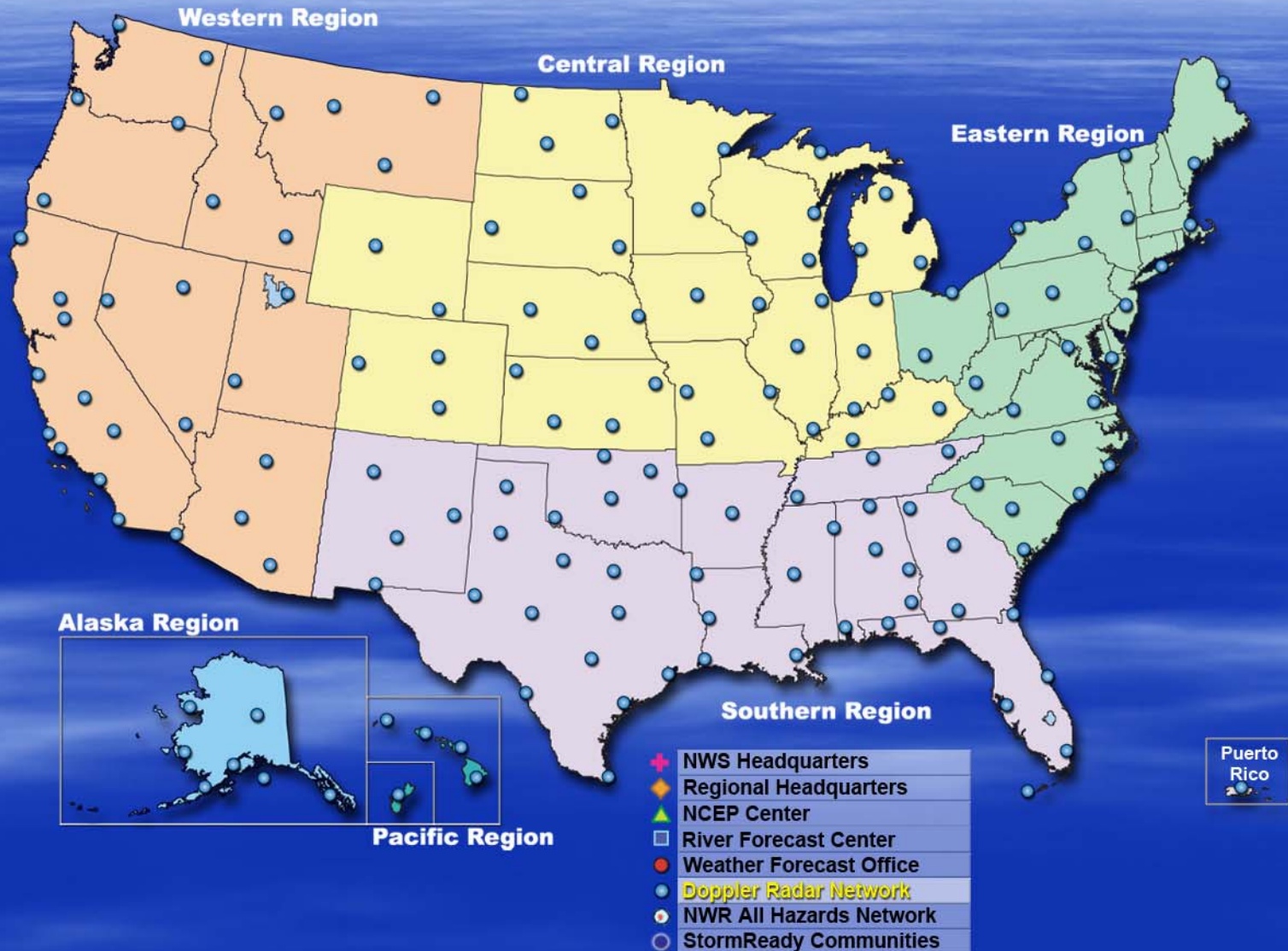
We're In Your Neighborhood

River Forecast Centers



We're In Your Neighborhood

Doppler Radar Network



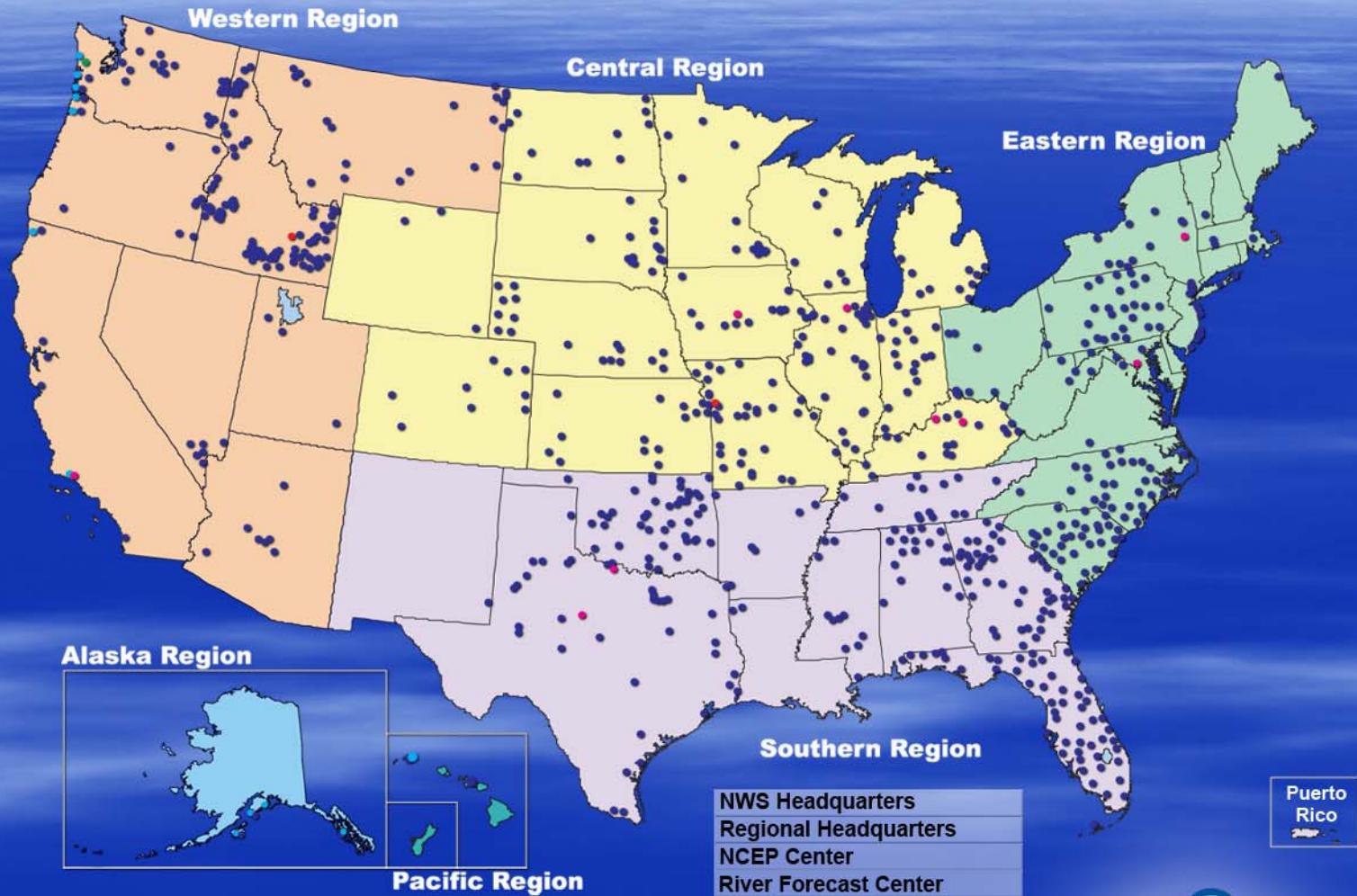
We're In Your Neighborhood

NOAA Weather Radio All Hazards



We're In Your Neighborhood

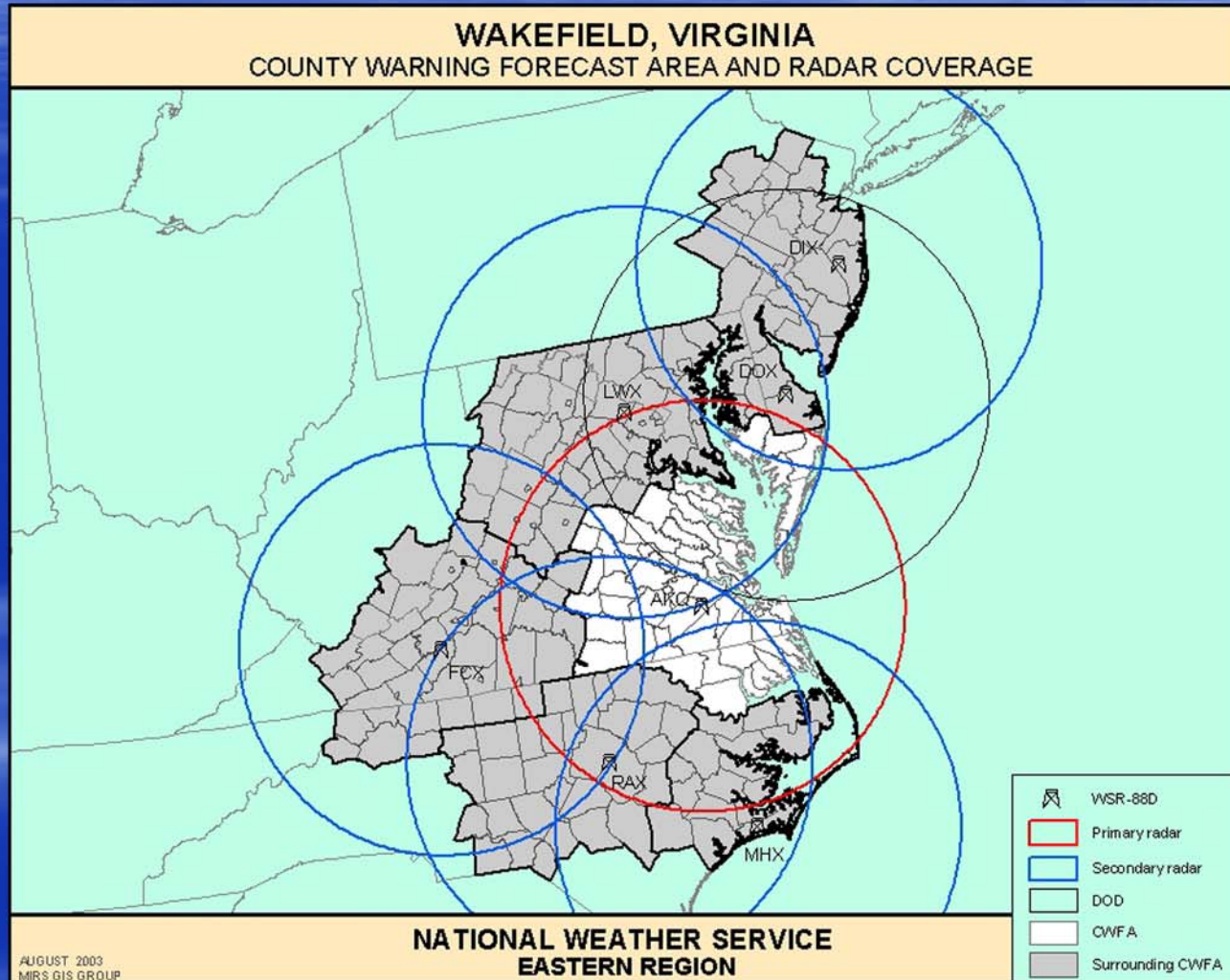
StormReady Communities



- 805 Communities in 47 states
- 119 new communities since January 2004



We're in Your Neighborhood





We're In Your Neighborhood

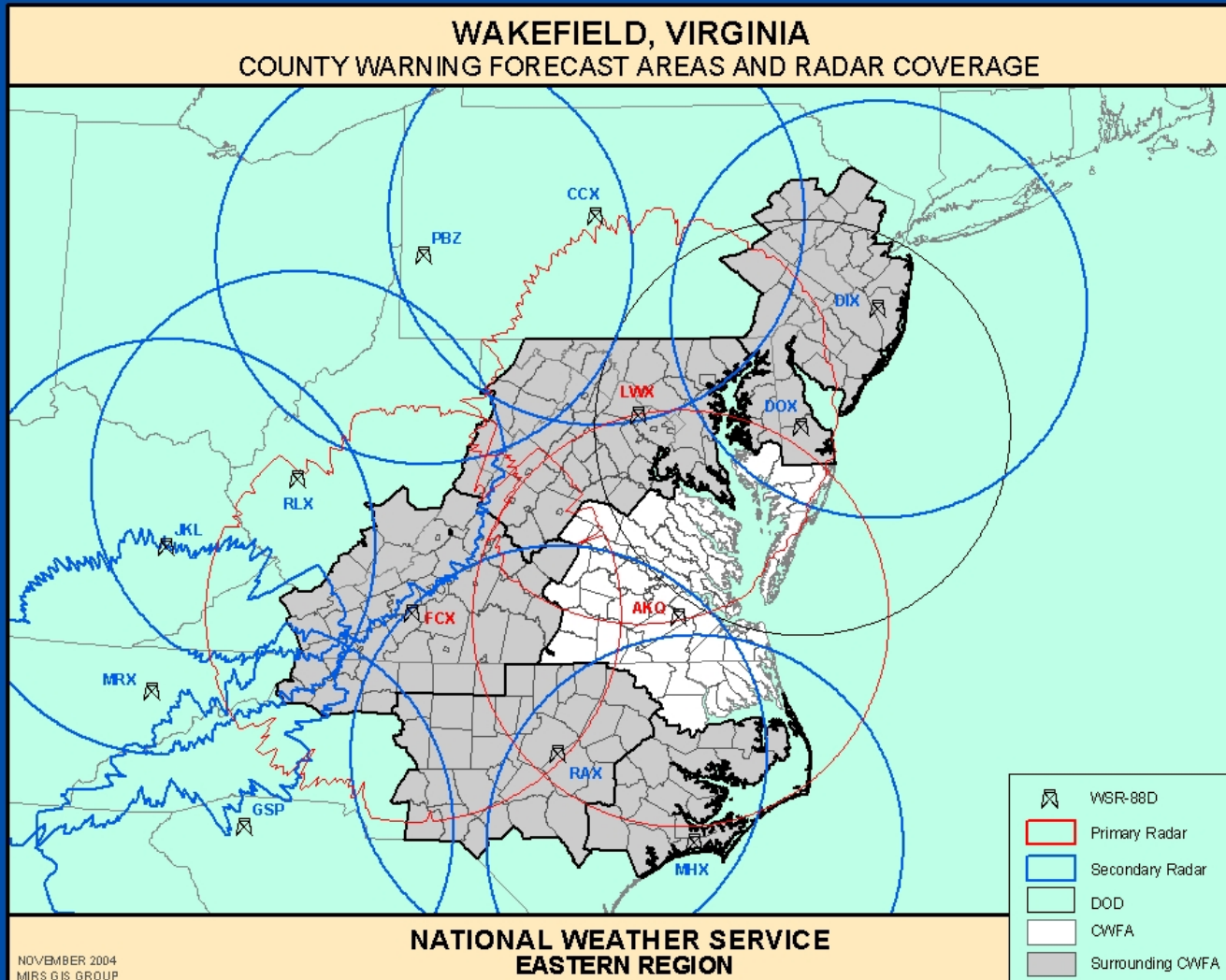
Wakefield VA

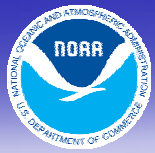




We're In Your Neighborhood

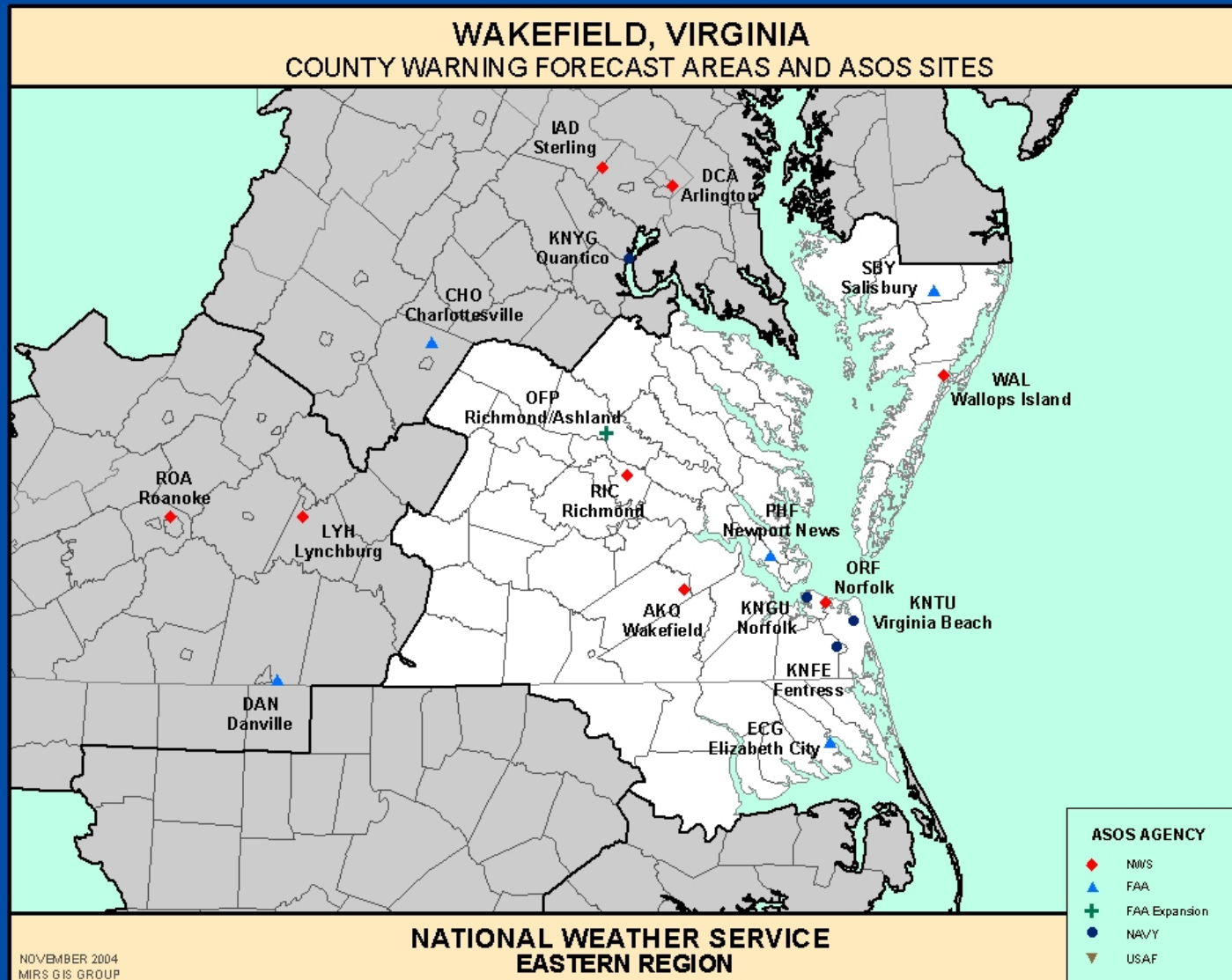
Local Area of Responsibility and Radars

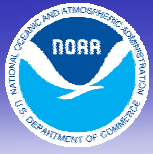




We're In Your Neighborhood

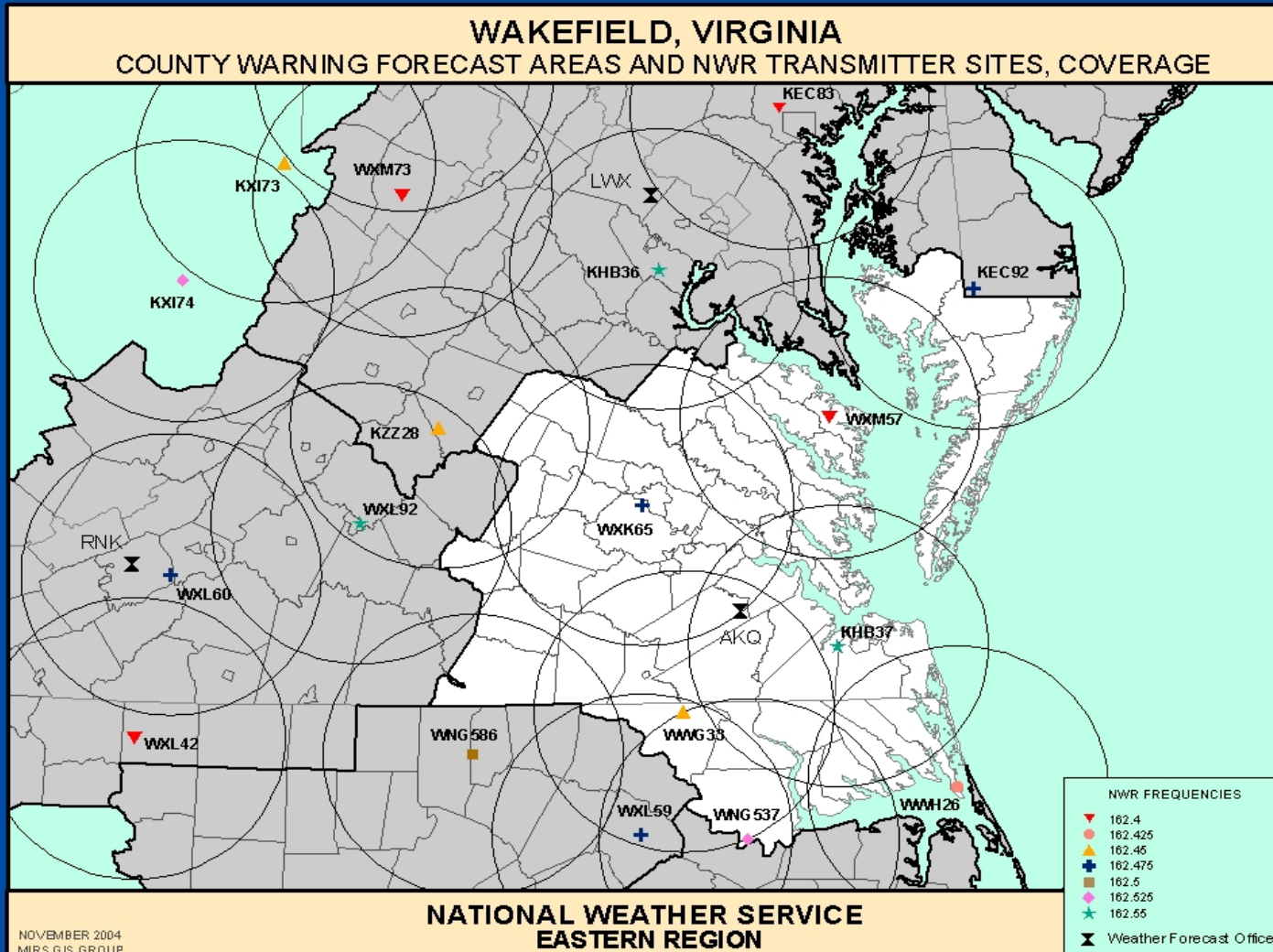
Automated Surface Observing Systems

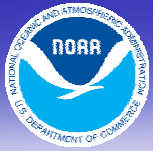




We're In Your Neighborhood

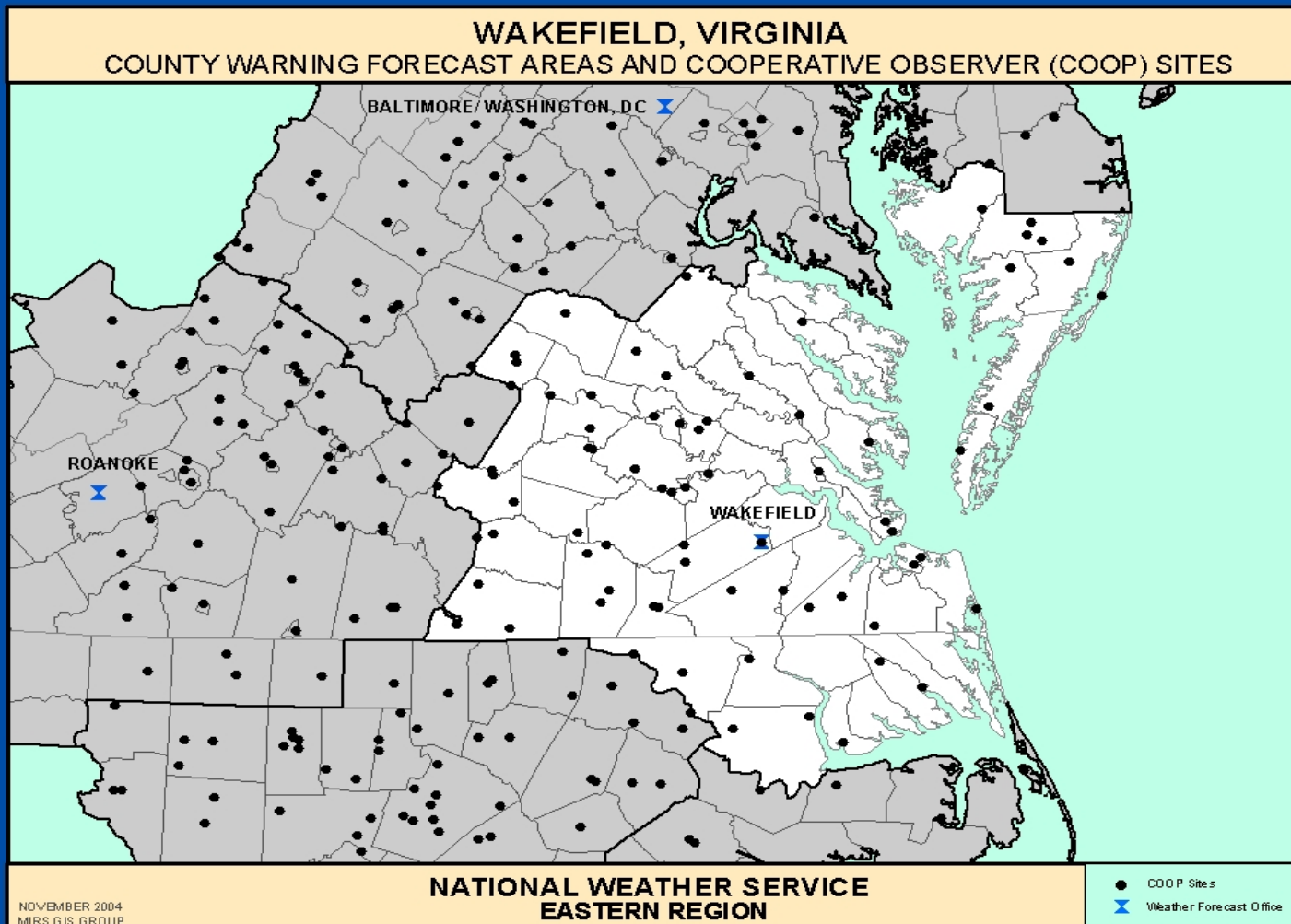
NOAA All-Hazards Weather Radio

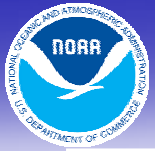




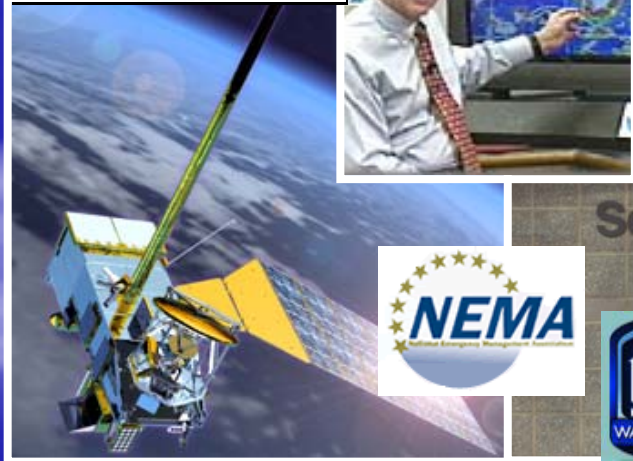
We're In Your Neighborhood

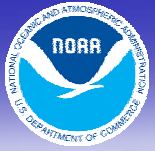
Cooperative Observer Locations





Teamwork



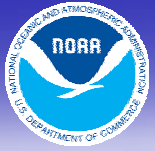


Teamwork

Our Community Partners

- ✓ Other NOAA Offices
- ✓ Local and State Government
- ✓ Emergency Managers
- ✓ Private Sector
- ✓ Citizen Corps
- ✓ Volunteers
- ✓ Media
- ✓ Academia

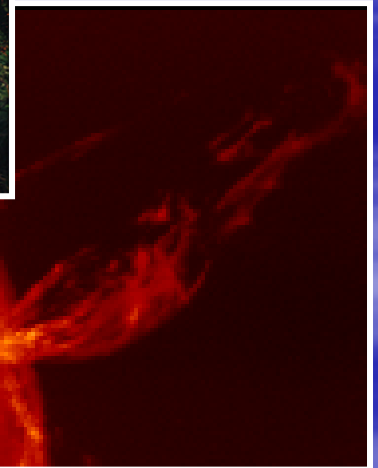




Teamwork

What NWS Provides to the Team

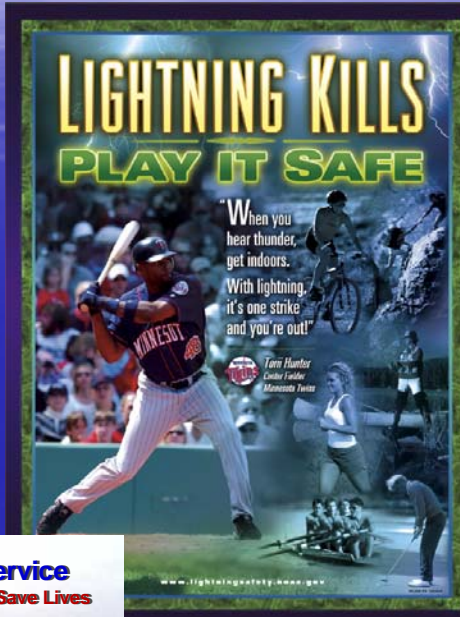
- ✓ Weather, Water, and Climate Warnings, Forecasts, and Outlooks
- ✓ Dissemination systems
- ✓ Cooperative Networks
- ✓ Homeland Security

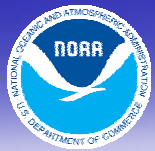




Teamwork

Awareness Campaigns





Teamwork

What is Our Goal?

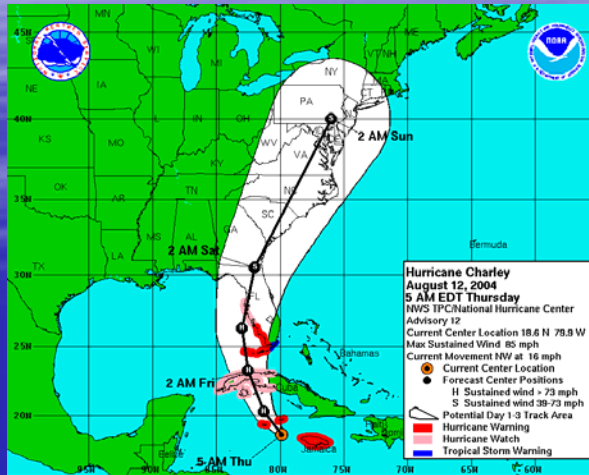


People take appropriate action.



2004 Highlights

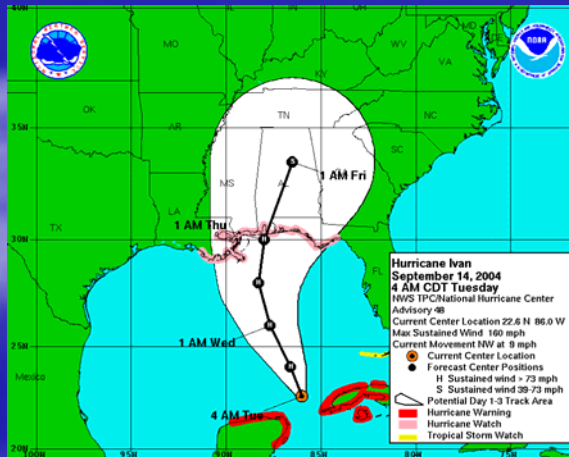
Land Falling Hurricanes



Charley



Frances



Ivan

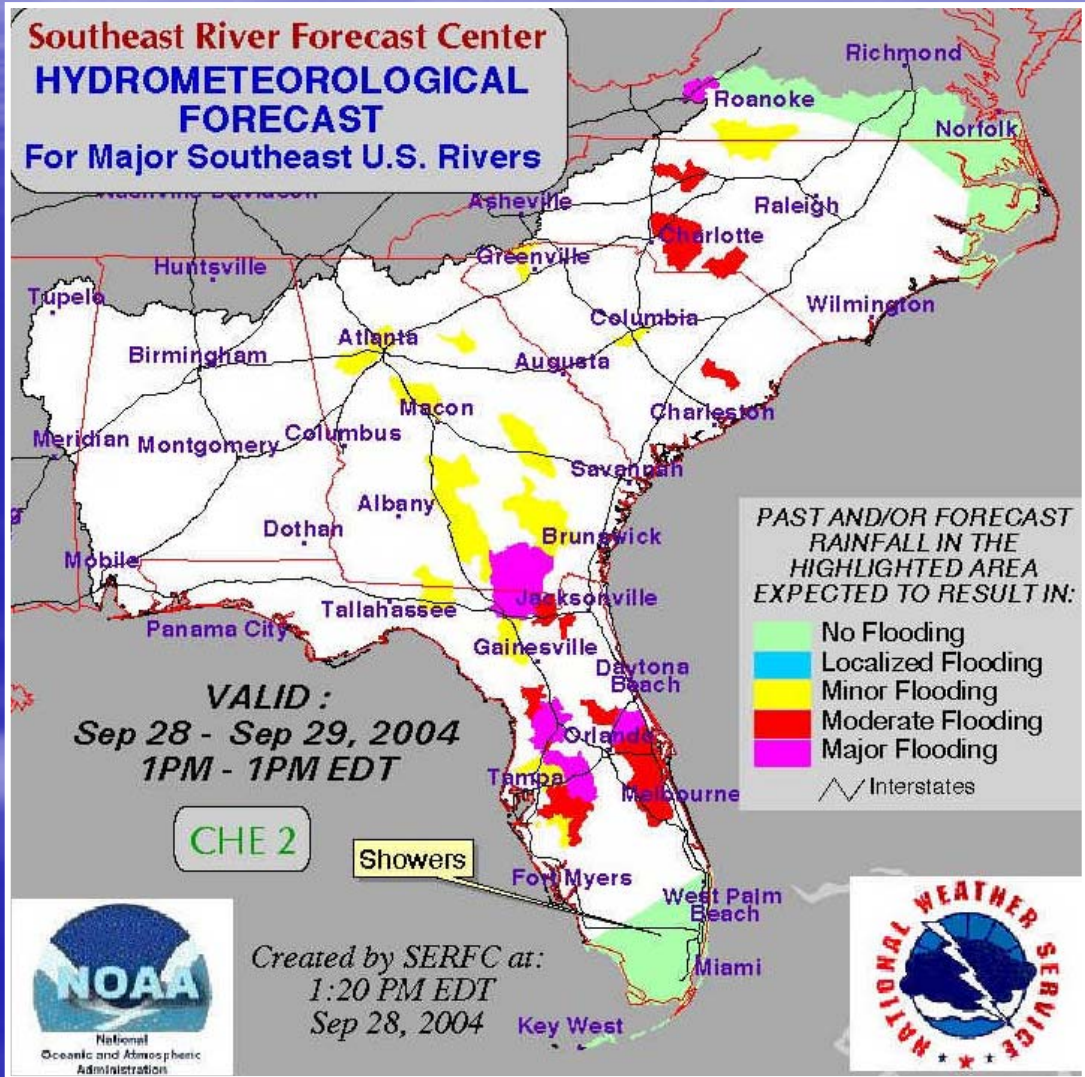


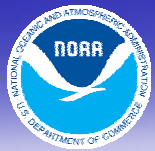
Jeanne



2004 Highlights

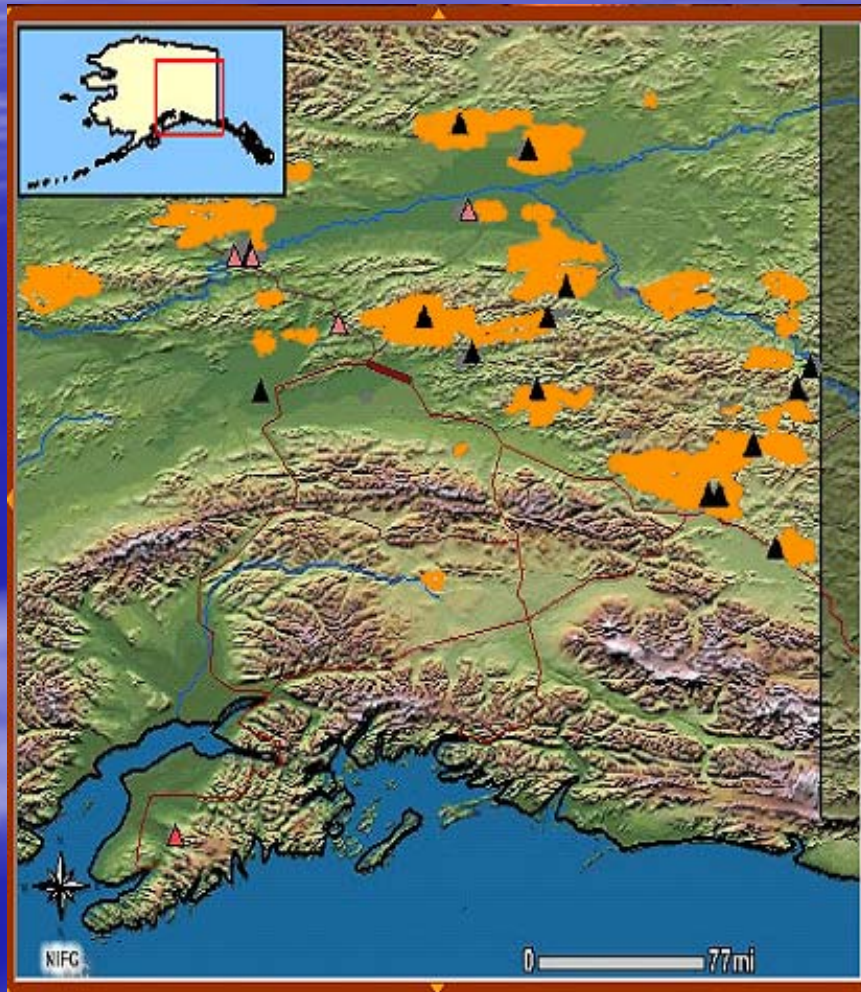
Inland Flooding from Hurricanes



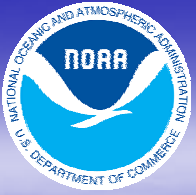


2004 Highlights

Alaska Wildfires and Incident Meteorologists



- ✓ 6.4 Million Acres Burned
- ✓ Record number of acres burned in Alaska
- ✓ 11 IMETs Dispatched
- ✓ All Hazard Meteorological Units used successfully



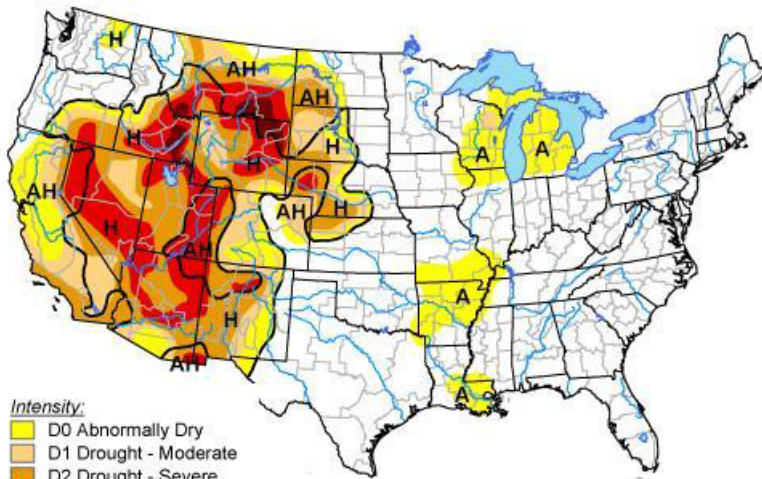
2004 Highlights

Drought

Severe drought in West

- ✓ In some areas, more than 5 years
- ✓ Many reservoirs seriously depleted
- ✓ 2004-2005 snow season critical
- ✓ NOAA-Western Governors Association
- ✓ National Integrated Drought Information System

U.S. Drought Monitor



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional



Released Thursday, September 30, 2004
Author: Brad Rippey, U.S. Department of Agriculture



2004 Highlights

Northeast Air Quality Forecasts

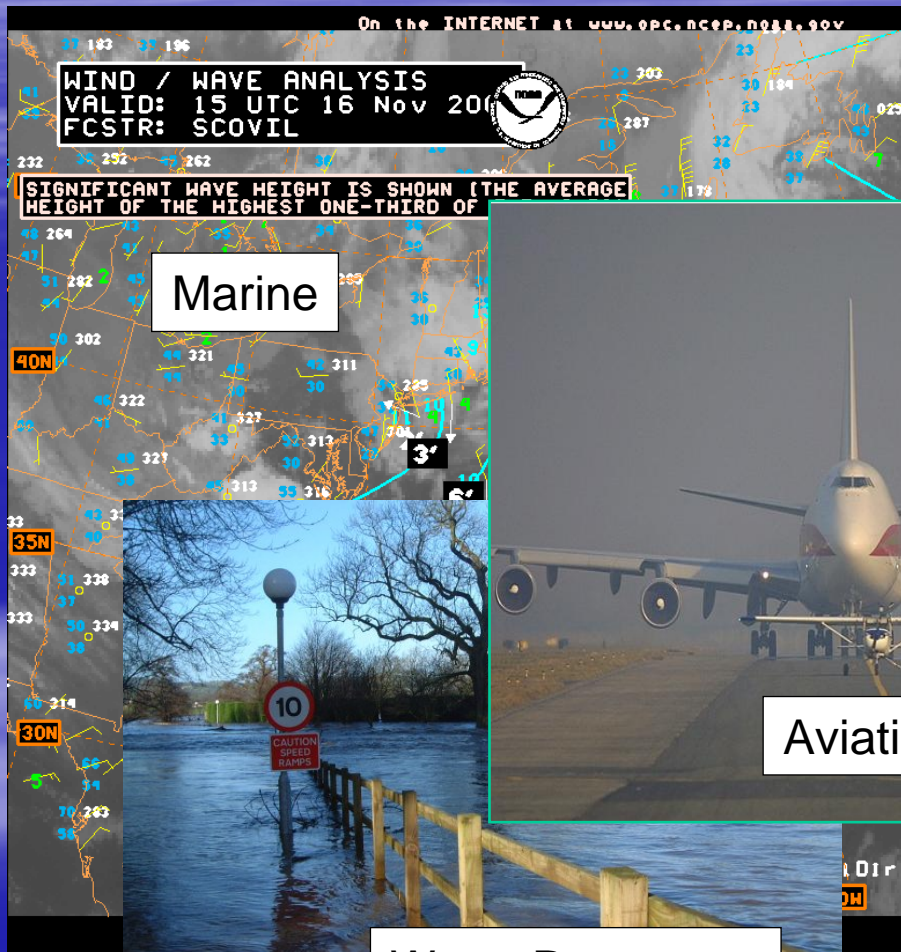
- ✓ Lives and property at risk from poor AQ
- ✓ AQ forecast guidance produced 2 times daily





Putting It All Together

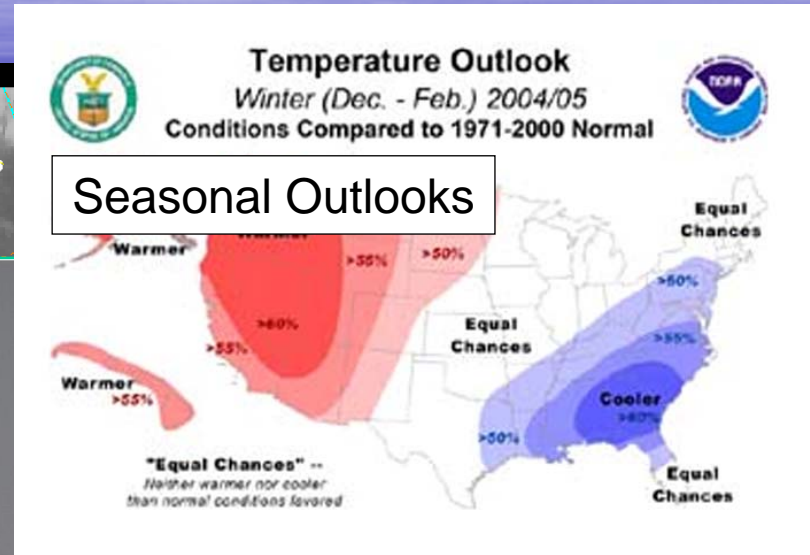
NWS Services



Water Resources



Aviation



Forecasts and Warnings





Putting It All Together

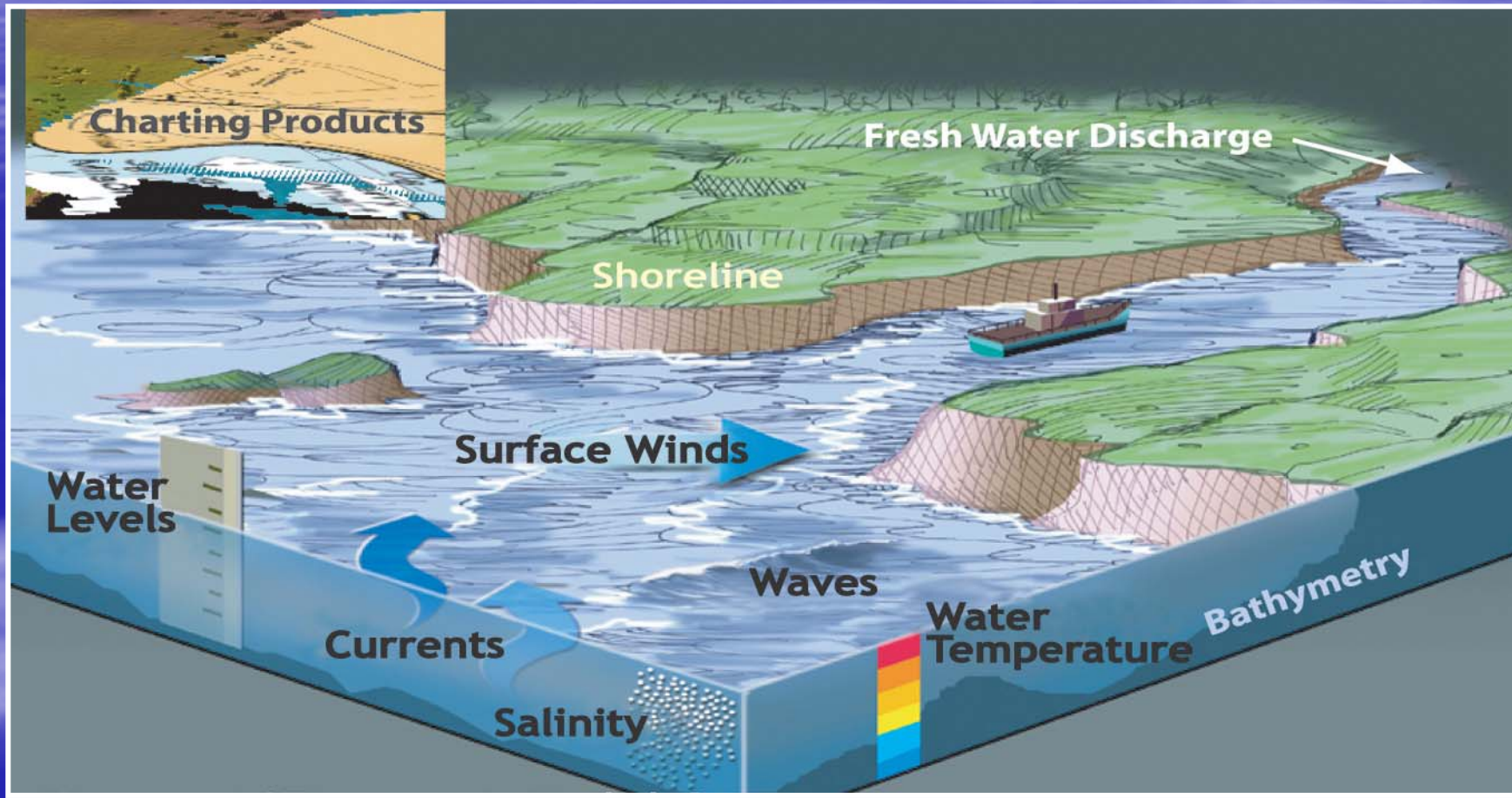
Increasing Global Pressures

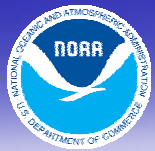




Putting It All Together

Weather, Water and Climate



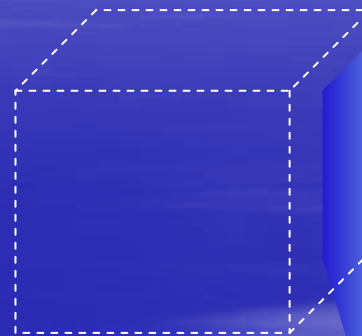


Putting it All Together

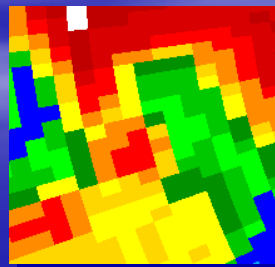
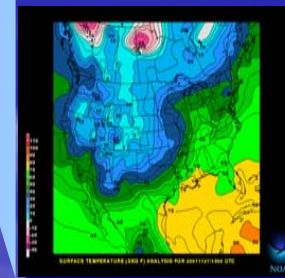
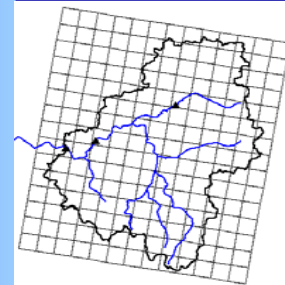
New Initiatives

Know and Anticipate Customer Needs

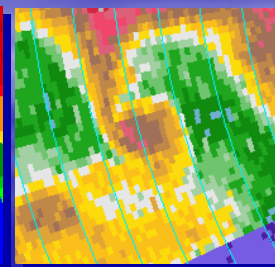
- ✓ Infuse proven science and technology
- ✓ Better radar resolution
- ✓ Digital products
- ✓ Watch by County



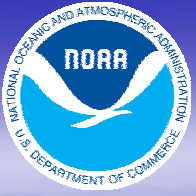
TODAY...RAIN
LIKELY. SNOW
LIKELY ABOVE
2500 FEET. SNOW
ACCUMULATION
BY LATE



**Current
Radar**



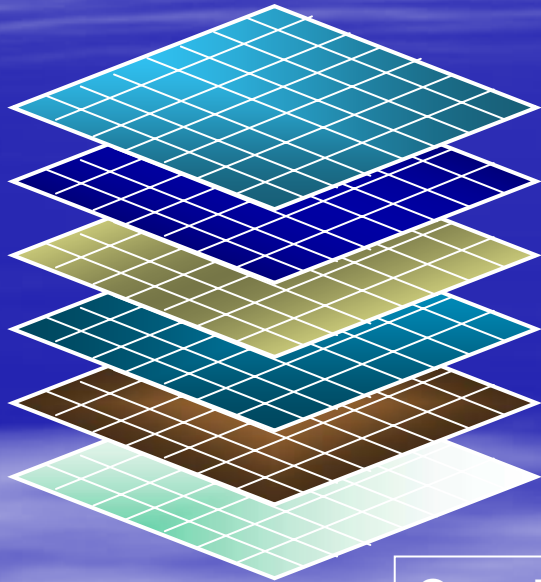
**Upgraded
Radar**



Putting it All Together

Debris Flow Watches and Warnings

NWS/USGS Partnership



- Terrain
- Land use/cover
- Soil type
- Precipitation Analyses
- Precipitation Forecasts
- Mudslide Analyses

Capability:

NWS

USGS

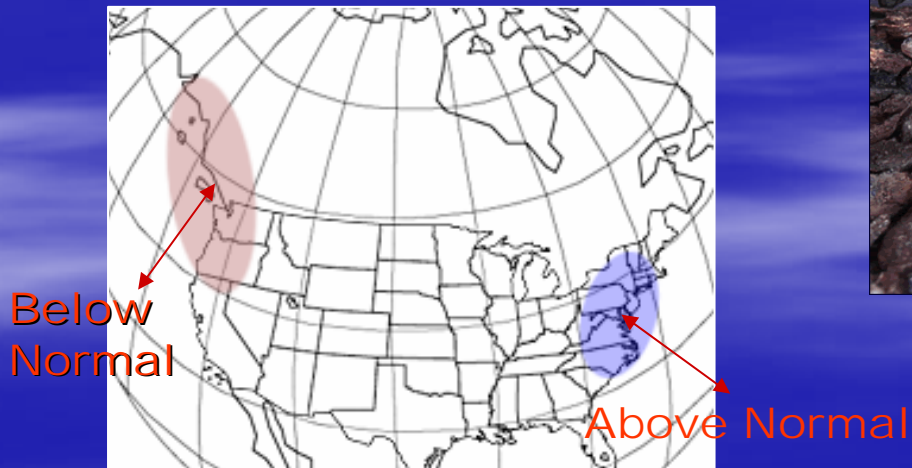




Putting It All Together

- ✓ What is the impact of a Climate Prediction Center Forecast of above normal precipitation on an oyster catch on the Chesapeake Bay?

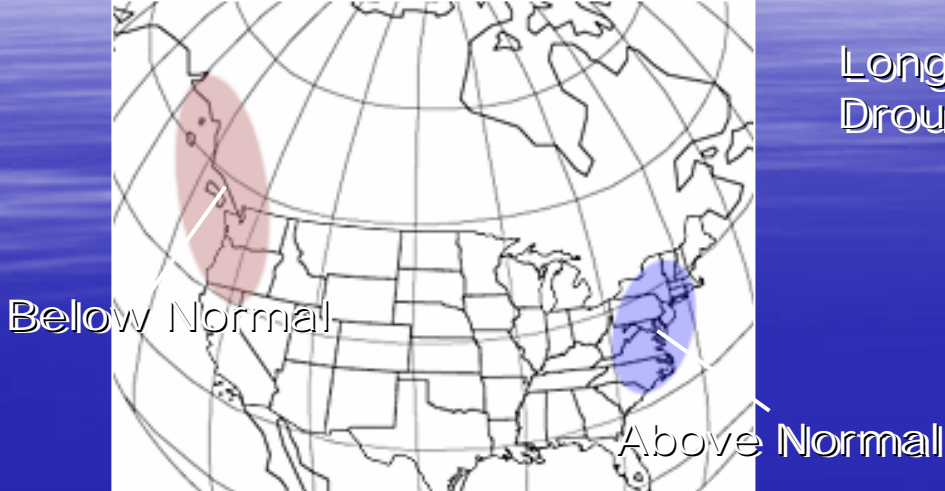
Seasonal Precipitation





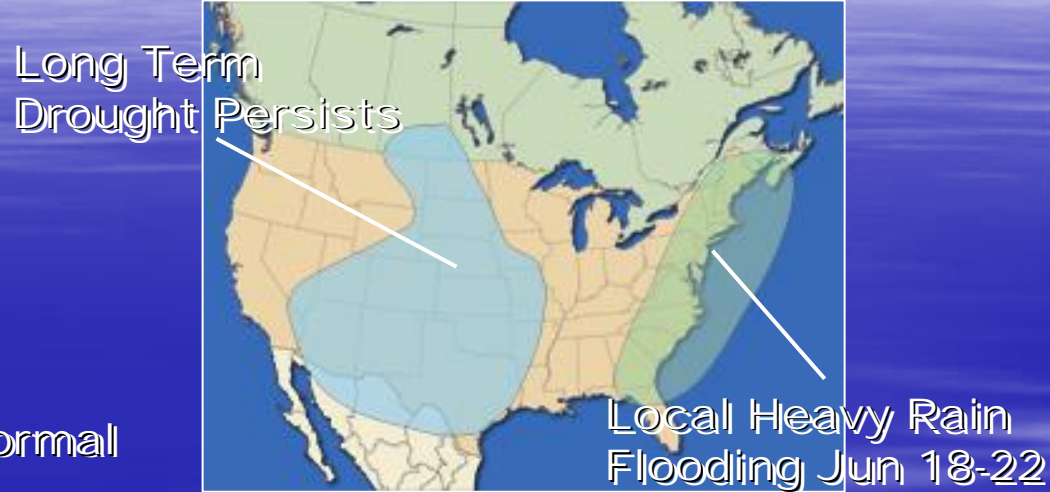
Event Scenario

Seasonal Precipitation



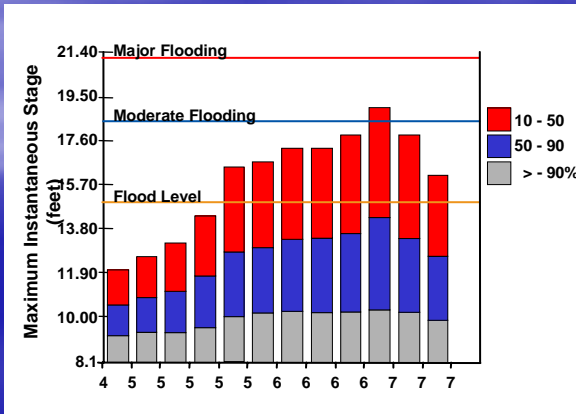
Precipitation Outlook
 Made Mar 17 200x
 Valid AMJ 200x

US Hazard Assessment

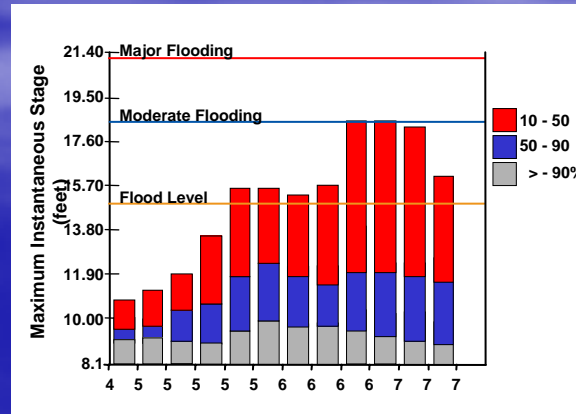


NWS Hazard Assessment
 Made Jun 10 200x
 Valid Jun 13-24 200x

Potomac Stage



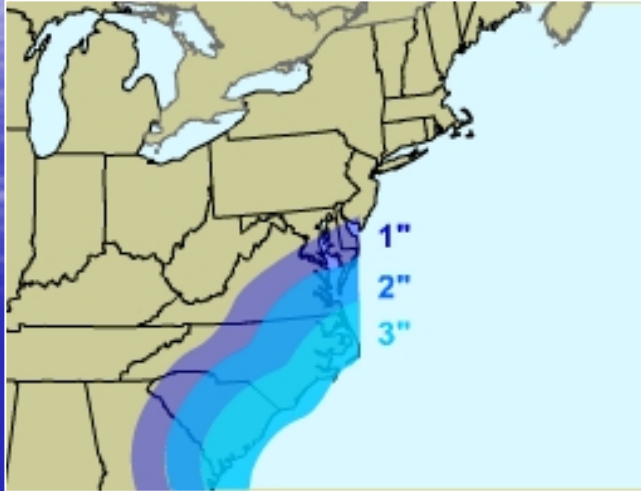
Susquehanna Stage





Event Scenario

Seasonal Precipitation



Total Precipitation May 2-5 19xx

US Hazard Assessment

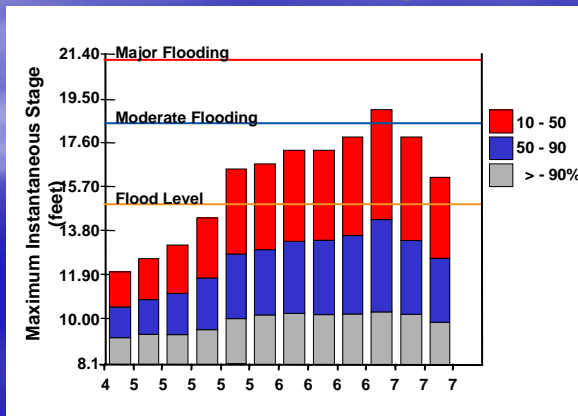
Long Term Drought Persists



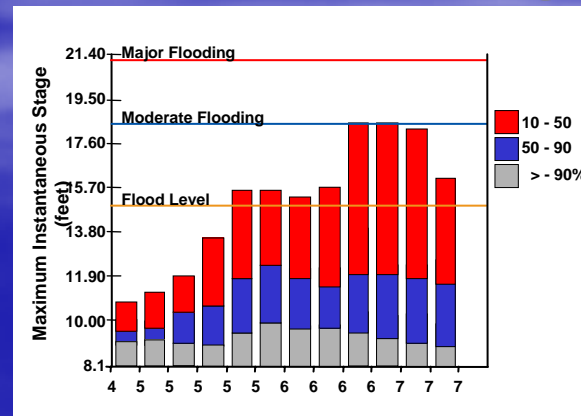
Local Heavy Rain Flooding Jun 18-22

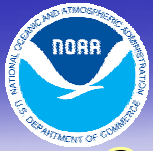
NWS Hazard Assessment
Made Jun 10 200x
Valid Jun 13-24 200x

Potomac Stage



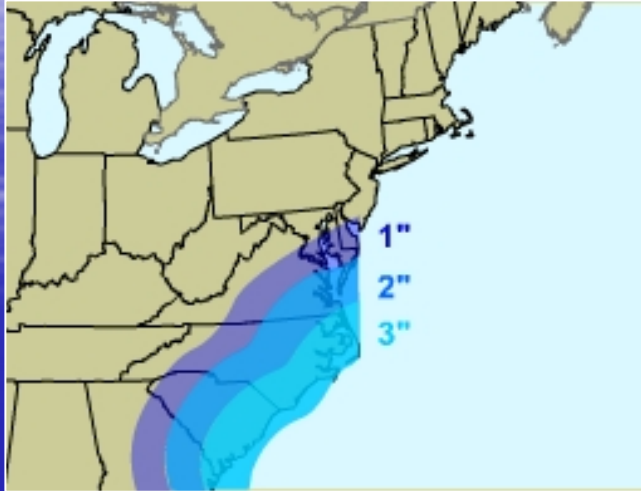
Susquehanna Stage





Event Scenario

Seasonal Precipitation



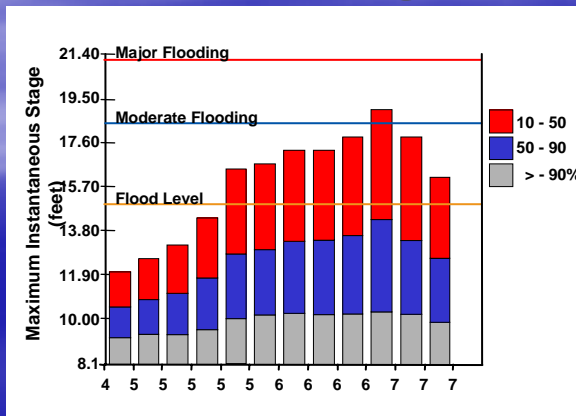
Total Precipitation May 2-5 19xx

US Hazard Assessment

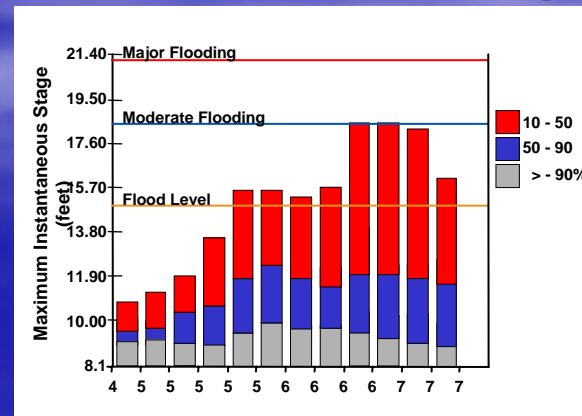


Storm Track
Jun 18-22
70% Probability

Potomac Stage



Susquehanna Stage





Putting It All Together

Our Forecasts Impact Other Disciplines

Nutrient Loading



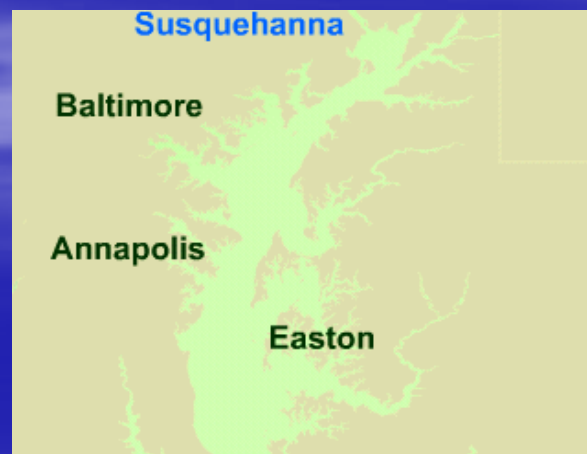
Turbidity



Salinity



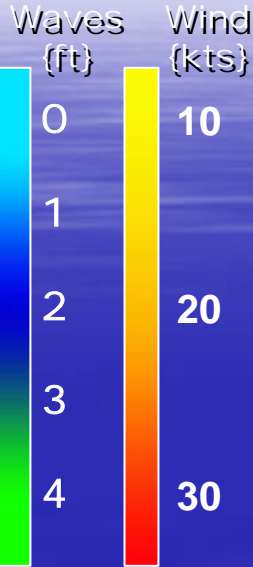
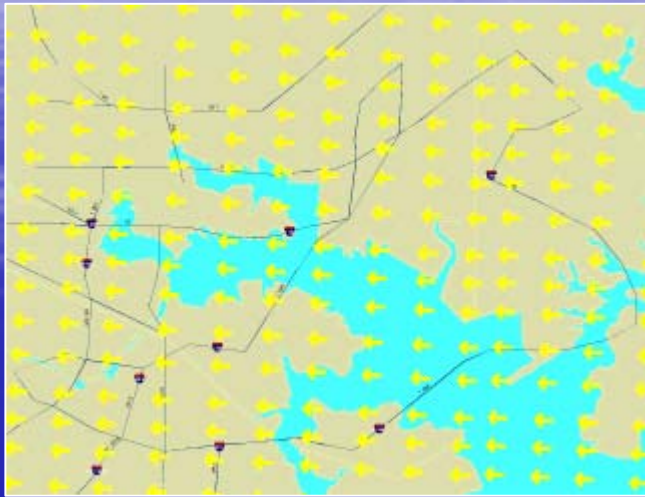
Oyster Mortality





Baltimore Port Predictions

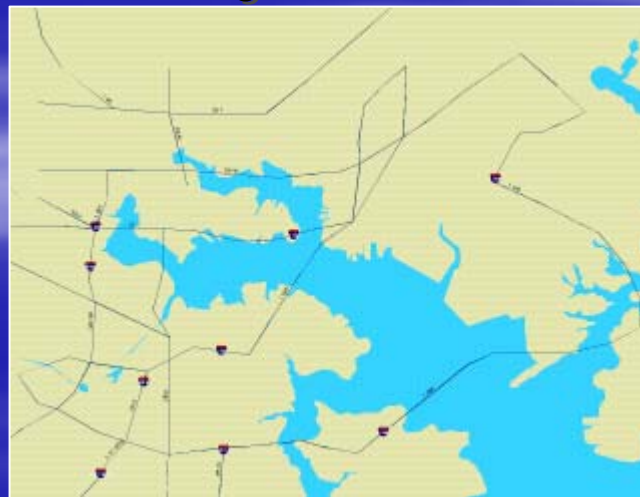
Wind and Waves



Water Level & Currents



Visibility





Coastal Impacts Old Town Alexandria

Inundation Areas



ABV
MLLW
{ft}

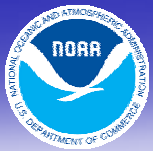
2
3
4
5
6

Excessive Rainfall



-
R
A
I
N
F
A
L
L
+

3 hourly rain rate

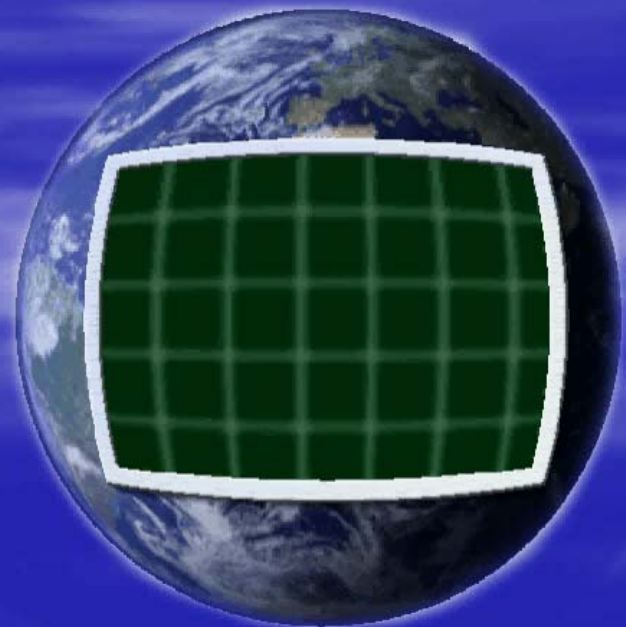


Putting It All Together

Taking the “Pulse of the Planet”

A fully implemented global observing system... will give us the tools we need to take the “pulse of the planet.” The full and open sharing of data between nations is an essential part of this effort — including making the data available within sufficient time to be of operational use.

Vice Adm. Conrad C. Lautenbacher,
Jr. USN (Ret.), NOAA Administrator,
August 2002





Putting It All Together

Finding New Solutions with Existing Systems





Summary

- ✓ NOAA Information Agents
- ✓ StormReady communities
- ✓ Partnership with Nauticus





Visit Us Online

<http://www.weather.gov>

National Weather Service Forecast Office
Wakefield, VA

www.nws.noaa.gov

Site Map News Organization Search Go

Local forecast by "City, St or Zip"
 Go

Top News of the Day

Coming Winter Outlook

HAZARDOUS WEATHER National Digital Forecast Database

- PAST TOP NEWS EVENTS ARCHIVE
- Needing Past Weather Data???

SKYWARN

Hear NOAA Weather Radio on the Web

Spotters should activate based on display Map below showing severe weather Outlooks, Watches and Warnings.

Quick Glimpse at the Weather
Wakefield, VA

Click Here to see all color definitions

Click on the map below for the latest forecast.

Read watches, warnings & advisories.

There are no watches, warnings, or advisories at this time.

(TUE) 11/16/2004 8:30:04 AM (EST)

Choose from the options below for other ways to view your NWS forecast

Current Hazards
Virginia
North Carolina
Maryland
National Warnings
Day 1 TSTM Outlook
Hazardous Weather
Day 2 TSTM Outlook
Send a Storm Report

Current Conditions
Observations
Satellite Images
Rivers
Rivers & Lakes AHPS

Radar Imagery
Wakefield VA Radar
Nationwide

Forecasts
Public Forecasts
Graphic Forecasts
PDA Users
Tropical Weather
Winter Weather
Severe Weather
Aviation
Marine & Tides
Rip Current
Fire Weather

Climate
Local Data
Climate Prediction

Hydrology
River Data
River Forecast

weather.gov

National Oceanic and Atmospheric Administration
National Weather Service
WORKING TOGETHER TO SAVE LIVES

Site Map News Organization Search Go

Local forecast by "City, St"
 Go

Comment on Strategic Plan for NOAA's National Weather Service

A draft of the National Weather Service's Strategic Plan for 2005-2010 is available for public comment. This Strategic Plan lays out the path that NOAA's NWS will take to accomplish its mission, advance its vision, and integrate its core values throughout the organization. The theme of this plan "Working Together to Save Lives" reflects NWS's commitment to work with all of its partners to provide the services America needs. We are interested in your comments.

Details...

Warnings & Forecasts Graphical Forecasts National Maps Radar Rivers Air Quality Satellite

Warnings By State Click On Map Below To Zoom In.

American Samoa - Guam - Puerto Rico/Virgin Islands

- Heavy Snow Warning
- Coastal Flood Warning
- Freeze Warning
- High Surf Advisory
- Dense Fog Advisory
- Air Stagnation Advisory
- Flood Statement
- Hazardous Weather Outlook
- Winter Storm Warning
- Flood Warning
- Gale Warning
- Heavy Freezing Spray Warning
- Marine Weather Statement
- Coastal Flood Watch
- Special Weather Statement
- Storm Warning
- High Wind Warning
- Snow Advisory
- Small Craft Advisory
- Wind Advisory
- Flood Watch
- Short Term Forecast

(MON) 11/15/2004 8:46:13 AM (EST)

24 Hour Loop | 12 hour Loop

Headquarters
For NWS Employees
Mission Statement
Strategic Plan

Headline Archive
International
Legislative Affairs

National Centers
Local Offices
Products and Services

Warnings
Current
By State...
Observations
Radar
Satellite
Snow Cover
Surface Weather...
Forecasts
Local
Graphical
Aviation
Marine
Hurricanes
Severe Weather
Fire Weather
Climate...
Forecast Models
Numerical Models
Statistical Models...
Weather Safety
Weather Radio
Hazard Assmt...
Education/Outreach
Information Center
Past Weather
Glossary
Publications...
Careers
Contact Us
FAQ
Comments...

Your local office:
<http://www.erh.noaa.gov/er/akq>