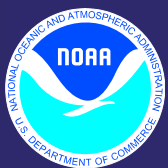


ET VOAD 2016 Spring Meeting

Anthony Cavallucci
Warning Coordination Meteorologist
National Weather Service – Morristown



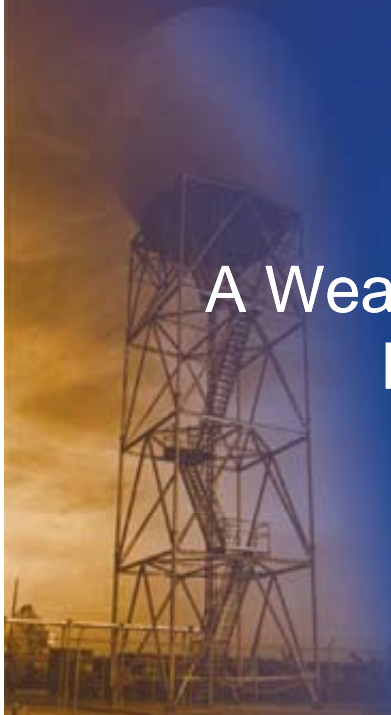


NWS Mission

- “...protection of life and property and enhancement of the national economy.”

Our Vision

A Weather-Ready Nation: Society is Prepared for and Responds to Weather-Dependent Events





Weather-Ready Nation Ambassador

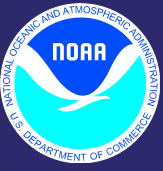


- Unifying effort
- Action-oriented
- Inclusive
- Force multiplier

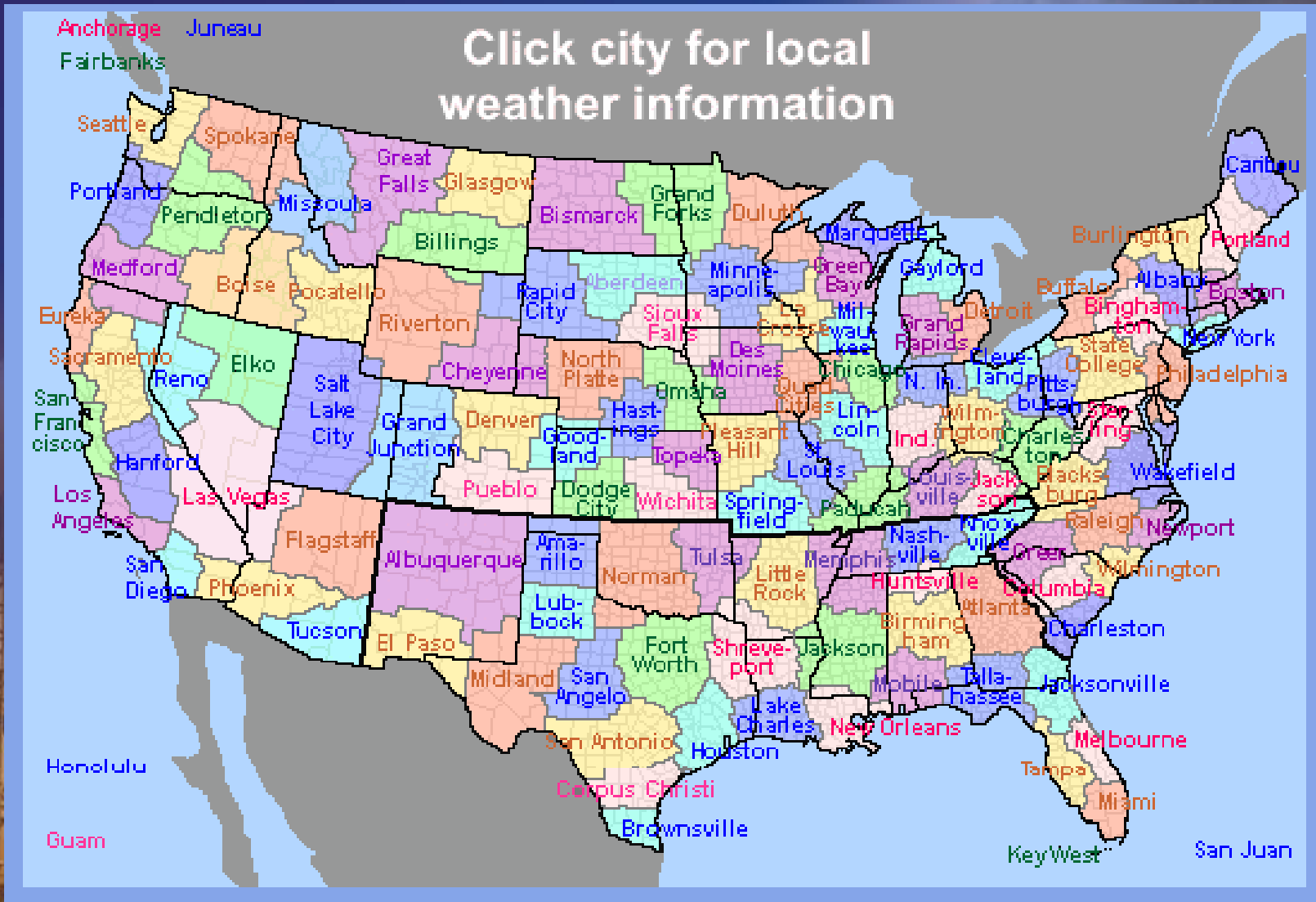


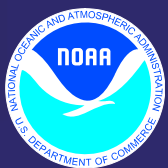
Provide outreach content and promote WRN messages to stakeholders

<http://goo.gl/mSYU54>



About the NWS

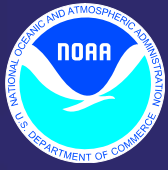




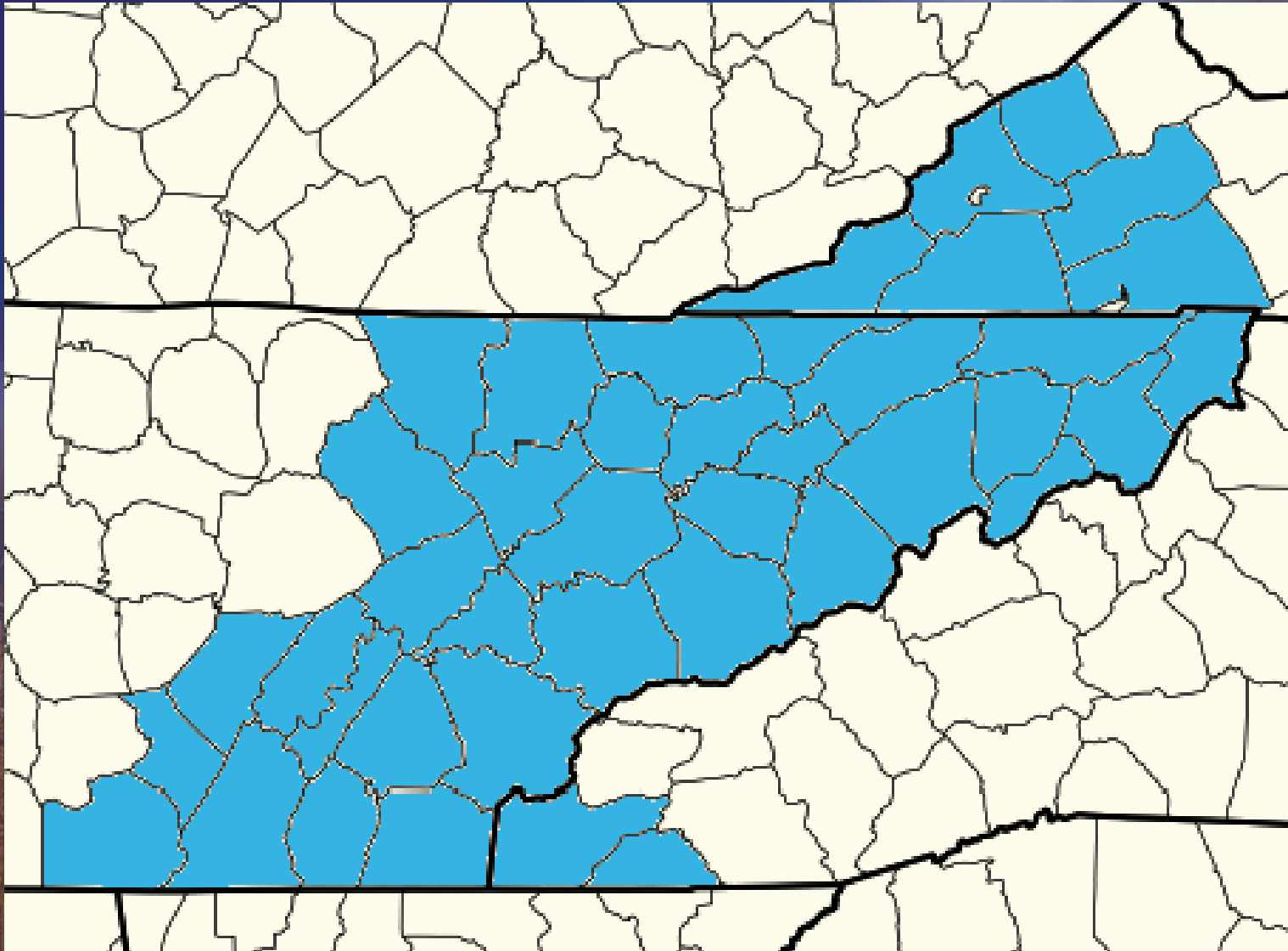
About the NWS

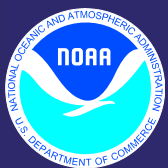


- **122 Forecast Offices**
- **9 National Centers**
- **\$1.2 B budget**
- **Approximately 4500 employees**
- **Responsible for *official* watches, warnings, advisories**



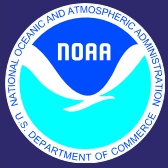
County Warning Area





Where Do You Look?

- **Where do you find detailed, accurate weather information?**
 - *Local TV / Radio*
 - *Smart Phone Weather App*
 - *Cable TV (Weather Channel or equivalent)*
 - *Social Media*



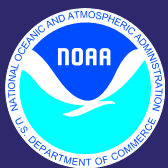
May I Suggest...?

weather.gov/knoxville

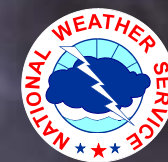
or

mobile.weather.gov

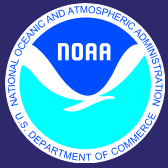




Basic Definitions



- **WATCH** – in winter: issued 24-36 hours in advance
in spring/summer: issued 3-6 hours for large area
- **ADVISORY** – conditions are not expected to be life threatening; be ready for travel inconveniences
- **WARNING** – take action! Winter: significant threat to life (4-6” snow or >1/4” ice accumulations)
spring/summer: 30-60 minutes; small area



Severe Thunderstorm

Produces at least one of the following:

Tornado

Wind gust at least 58 mph

Hail at least 1" in diameter





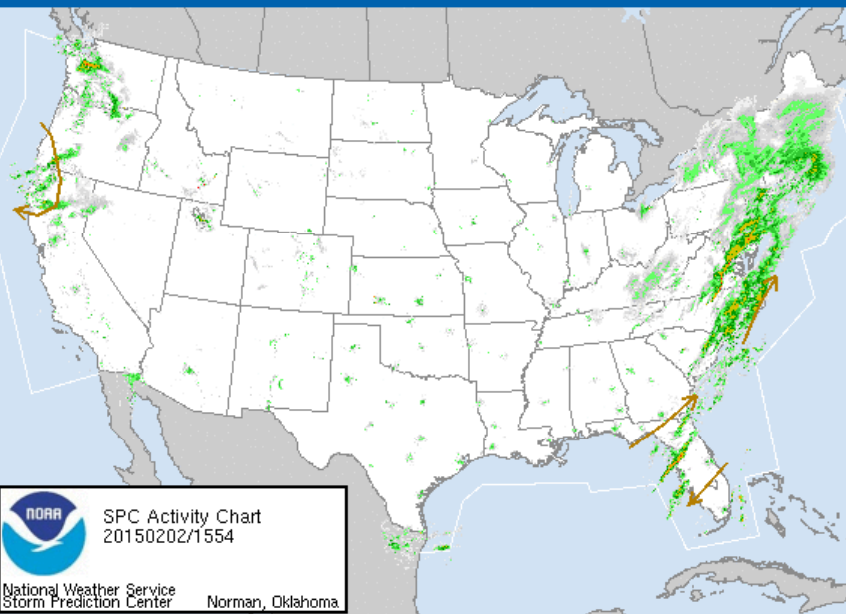
Storm Prediction Center

NOAA / National Weather Service



What's New...

- » December 19, 2014: Check out the multimedia briefing on the Day 4-8 Severe Weather Outlook changes started on December 16, 2014: http://www.spc.noaa.gov/misc/2014_D48_OutlookChanges.mp4.
- » December 19, 2014: Click [here](#) to view a video clip on [How is a Forecast Made?](#)
- » December 16, 2014: On Tuesday, December 16, 2014, at 1500 Coordinated Universal Time (UTC), the SPC [Day 4-8 Severe Weather Outlooks more](#)
- » December 1, 2014: The SPC has developed a sounding climatology web browser for the CONUS. It can be accessed at: <http://www.spc.noaa.gov/exper/soundingclimo/>.
- » November 6, 2014: Check out the multimedia briefing on the 5-tier Categorical Day 1-3 Convection Outlooks started on October 22, 2014: <http://www.spc.noaa.gov/misc/2014OutlookChanges.mp4>. More news [here](#)



NOAA SPC Activity Chart
20150202/1554

National Weather Service
Storm Prediction Center
Norman, Oklahoma

Hazard	Mon (02/02)	Tue (02/03)	Wed (02/04)	Thu (02/05)	Fri (02/06)	Sat (02/07)	Sun (02/08)	Mon (02/09)
Severe	No Severe	No Severe	No Severe	No Area	No Area	No Area	No Area	No Area
Fire	No Critical	No Critical	No Area	No Area	No Area	No Area	No Area	No Area

Day 1 Fire Weather Outlook
- Categorical Risk: **No Critical**
- Issued: 6 minutes ago

Day 2 Fire Weather Outlook
- Categorical Risk: **No Critical**
- Issued: 6 minutes ago

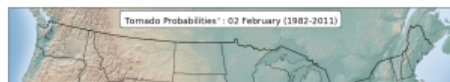
Mesoscale Discussion 0055
- Concerning: HEAVY SNOW
- Issued: 02/02/2015 at 1348Z

Day 1 Convective Outlook
- Categorical Risk: **No Severe**
- Issued: 02/02/2015 at 1254Z

Enhanced Thunderstorm Outlook
- Issued: 02/02/2015 at 1244Z

Mesoscale Discussion 0054

Severe Weather Climatology (1982-2011)



2015 Tornado Watch Summary

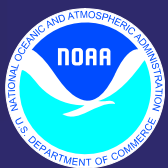


Did You Know?

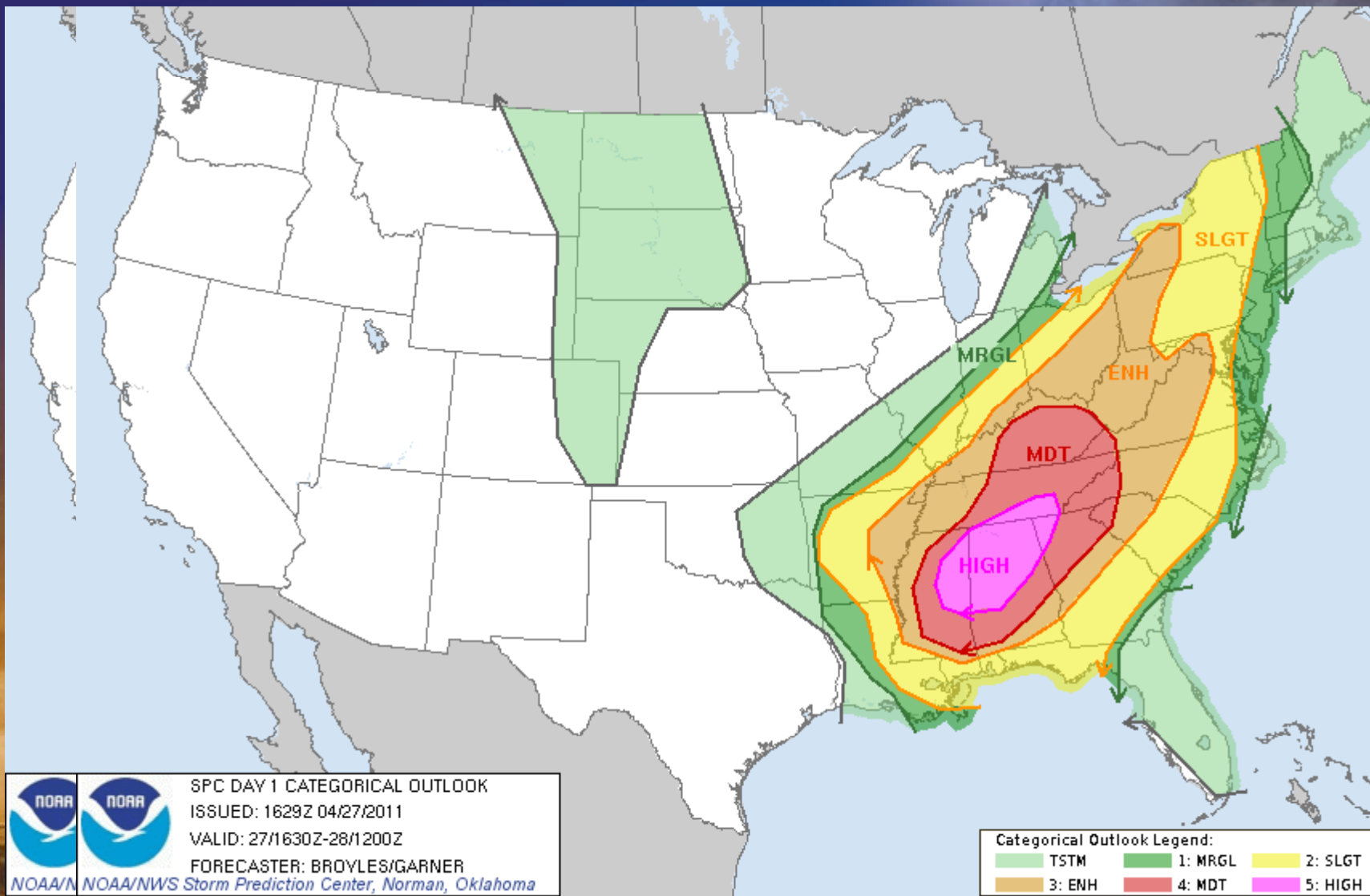


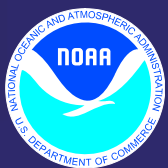
- Social Media Dashboard
- Local forecast by City
- "City, St" or Zip Code
- City, St
- XML RSS Feeds
- Current Hazards
- Local
- Nationwide
- Outlooks
- Severe Weather Advisory & Warning Criteria
- Forecasts
- Local
- Forecast Discussion
- Activity Planner
- Graphical
- Tropical Weather
- Fire Weather
- Aviation Weather
- Local WRF Model
- Audio Forecasts
- Current Observations
- Satellite Images
- Rivers/Lakes
- Precip Estimate
- Hydrology
- Audio Wx Conditions
- Radar Imagery
- Nationwide
- Morristown TN
- Huntsville AL
- Other Radars
- Climate
- Local
- National
- More...
- Sunrise & Sunset
- Weather Safety
- Get Prepared
- Weather Radio
- SKYWARN
- Submit Storm Report
- Tornado Database
- Severe Weather Safety Guide
- Additional Info
- Coop Program
- Local Research
- YouTube Videos
- Education





Outlooks – Days 1-3





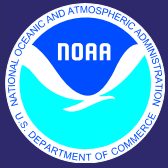
Dangerous Storms



- **Supercell Thunderstorms**

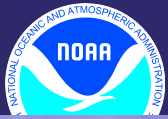
- *Tornadoes*
- *Large Hail*
- *58+ mph wind gusts*
- *Flooding*





Tornado



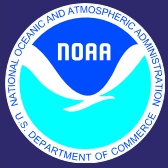


Wall Cloud



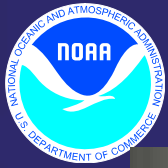
© 1997 Roger Edwards



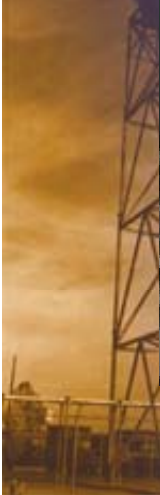


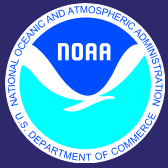
Large Hail





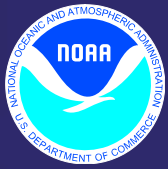
Shelf Cloud





Damaging Wind





Flooding

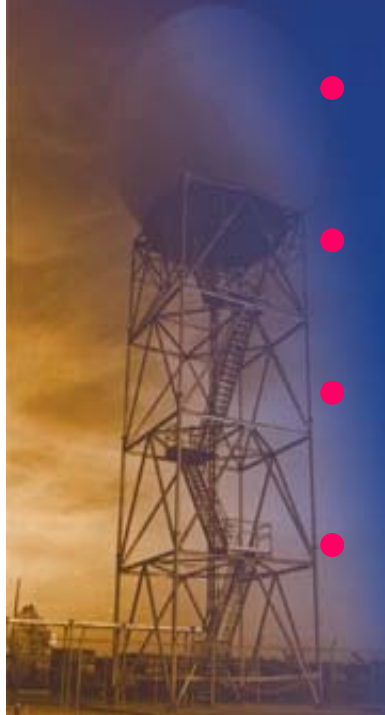


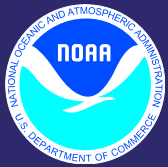


Spotter Training



- 2 hour class
- Thunderstorm ingredients
- Types of thunderstorms
- Cloud formations and storm clues
- How/what to report to the NWS
- Safety





Home Site Map News Organization Search for:

Local Storm Report

Issued by NWS Knoxville/Tri Cities, TN

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 Versions: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#)

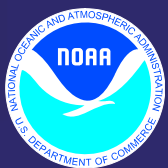
000
 NWUS54 KMRX 271941
 LSRMRX

PRELIMINARY LOCAL STORM REPORT
 NATIONAL WEATHER SERVICE MORRISTOWN TN
 241 PM EST TUE JAN 27 2015

..TIME...	...EVENT...	...CITY LOCATION...	...LAT..LON...
..DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE...
..REMARKS..			
0700 AM	SNOW	6 SE GATLINBURG	35.66N 83.42W
01/27/2015	M4.0 INCH	SEVIER TN	CO-OP OBSERVER
MEASURED AT MT LECONTE AT APPROX 6400 FT ELEV.			
0700 AM	SNOW	2 W NEWFOUND GAP	35.61N 83.46W
01/27/2015	M1.2 INCH	SEVIER TN	CO-OP OBSERVER
MEASURED AT APPROX 5000 FT ELEV.			
0700 AM	SNOW	KNOXVILLE	35.97N 83.95W
01/27/2015	M1.0 INCH	KNOX TN	ASOS
MEASURED AT TYS			
0700 AM	SNOW	5 N LENOIR CITY	35.87N 84.27W
01/27/2015	M0.7 INCH	LOUDON TN	TRAINED SPOTTER
NEAR MELTON HILL DAM			
0700 AM	SNOW	5 S TOWNSEND	35.60N 83.75W
01/27/2015	M1.0 INCH	BLOUNT TN	CO-OP OBSERVER
MEASURED IN CADES COVE AT APPROX 1900 FT ELEV.			
0700 AM	SNOW	2 SW GATLINBURG	35.70N 83.52W
01/27/2015	M0.5 INCH	SEVIER TN	CO-OP OBSERVER
MEASURED AT SUGARLAND CENTER AT APPROX 1600 FT ELEV.			

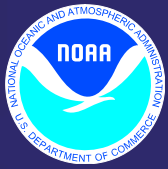
@@



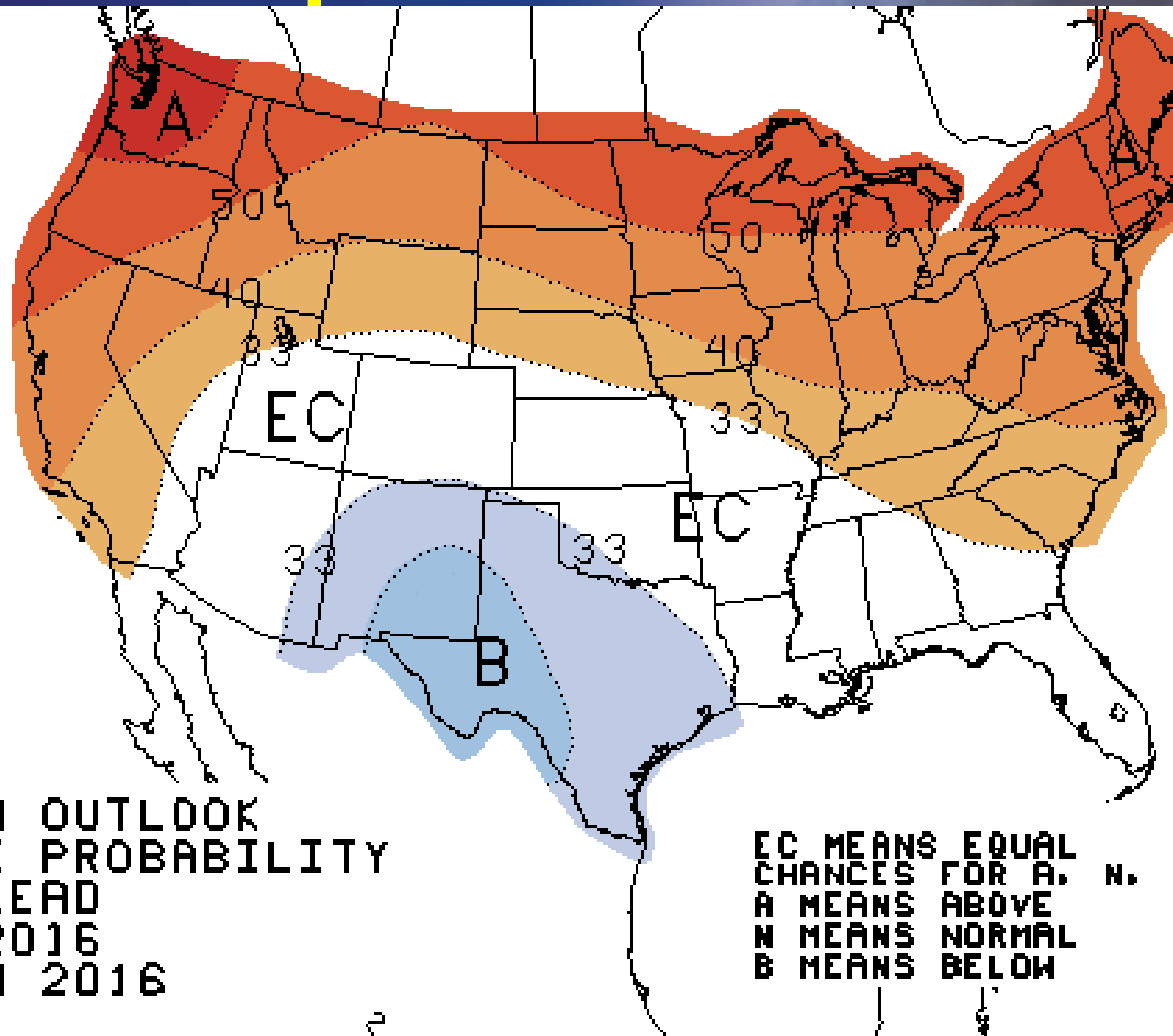


Safety Review

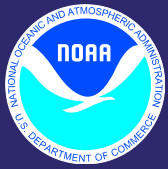
- **Nowhere outside is safe – Lightning**
- **Structure/Lowest level, away from windows and outside walls ; Mobile homes are not safe; Autos not safe– Tornado/Severe Thunderstorm**
- **Seek higher ground; don't drive into flooded roadways - Flooding**



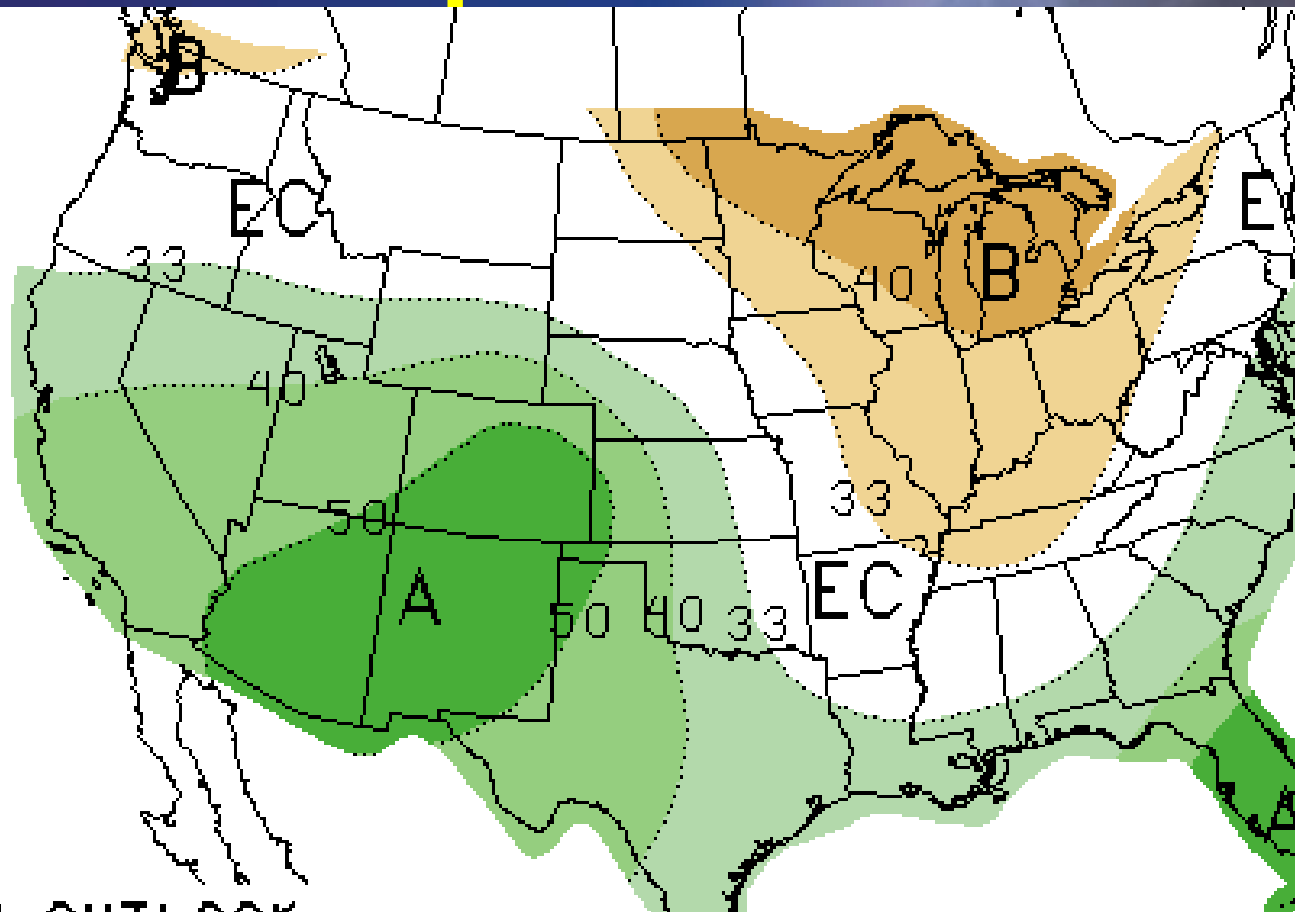
Spring Outlook Temperature



THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
1.5 MONTH LEAD
VALID MAM 2016
MADE 21 JAN 2016

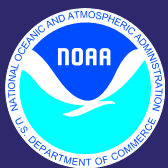


Spring Outlook Precipitation



THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
1.5 MONTH LEAD
VALID MAM 2016
MADE 21 JAN 2016

EC MEANS EQUAL
CHANCES FOR A, N
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW



Questions?

Thank you for your time!

Anthony Cavallucci
Warning Coordination Meteorologist

<https://www.facebook.com/NWSMorristown>

<https://twitter.com/NWSMorristown>