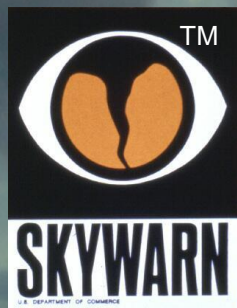




National Weather Service

Newport/Morehead City



Basic SKYWARN

Online Training

2021



By: Erik Heden
erik.heden@noaa.gov

Technical Information

Your mics have been muted.

You can enlarge the presentation by dragging the window up to enlarge it or swiping right or left on the app to make it full screen

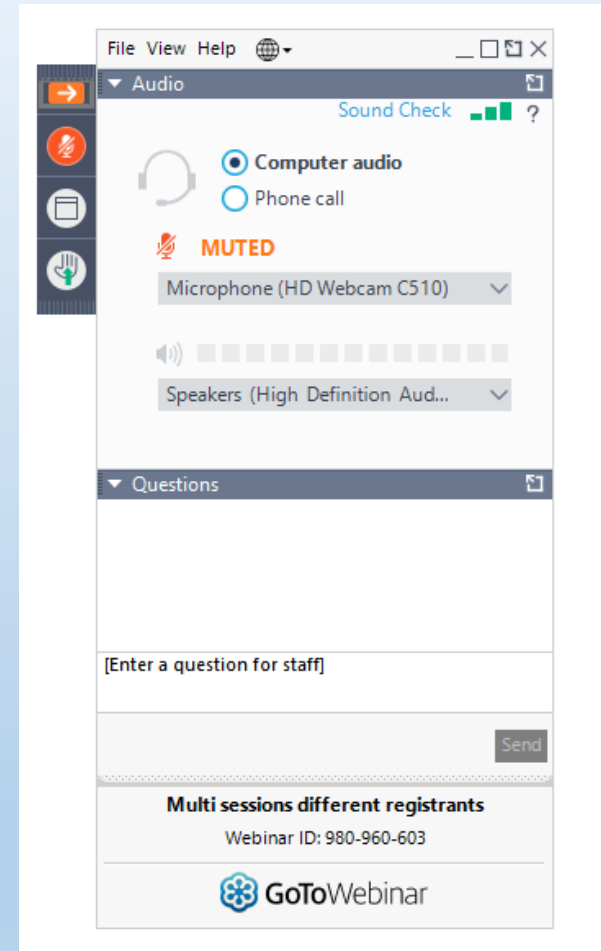
At the end we will take questions. Feel free to type in your question at anytime using the webinar feature.



If you raise your hand, we can call on you, unmute your mic, and take a question verbally.

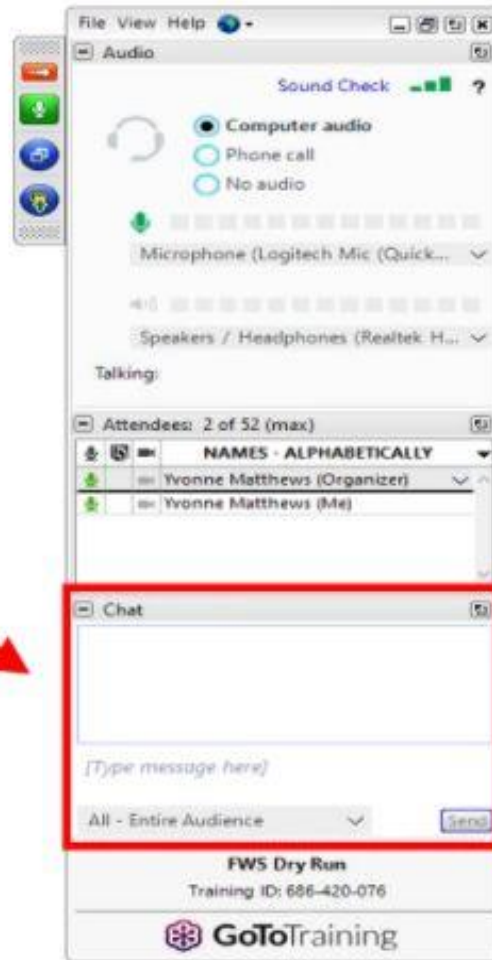
In the handouts section you can download this presentation and your spotter certificate!

This will be recorded and posted to YouTube shortly.



COMMUNICATING With the Presenters

1



Type your Question or Comment in the Chat box.
Select who you would like to send it to, i.e., All-Entire Audience or a specific attendee.
Click the **Send** Button

2



Don't see the question box?

3



Use the *Raise your Hand* button to respond to the presenter(s) when they ask for a show of hands.



Welcome To Our Third Year Of Online Classes



- Our hope is you will learn a bit more about who we are as the National Weather Service and severe weather, while learning how important it is to report severe weather to the National Weather Service
- You will now be in our spotter database, using the information you signed up with.
- Sit back and enjoy! The class will be about 50 minutes. The final 10 minutes will be questions from you, for a total of around an hour.



Topics

- National Weather Service Overview
- SKYWARN Facts
- Thunderstorms Ingredients
- Thunderstorm life cycle
- Single Cell Thunderstorms
 - *Downbursts/Microbursts*
- Supercell Thunderstorms and Tornadoes
- Squall Lines and Bow Echoes
- Flash Floods
- Keeping informed of severe weather
- Review of spotter procedures

Some things to keep in mind

- There is a lot of information that will be presented here. Do not expect to be able to absorb everything in one class.
- We want to give you a **bit of science** so that you understand why storms occur but our main goal is that you **report to us when severe weather happens**
- Enjoy the class but pay special attention to **what to report, how to report it, and when.**

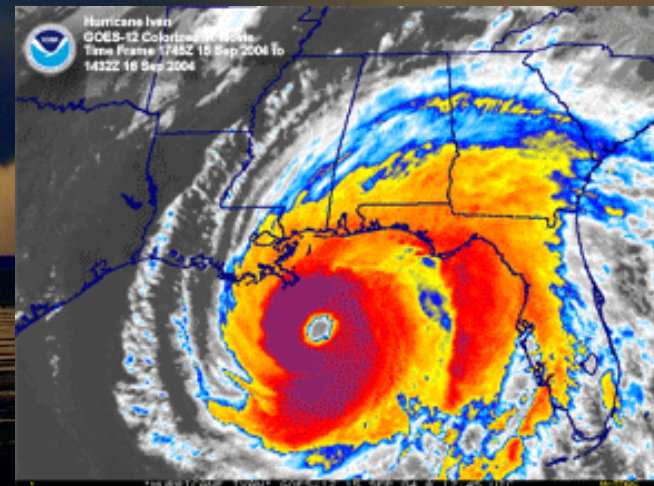
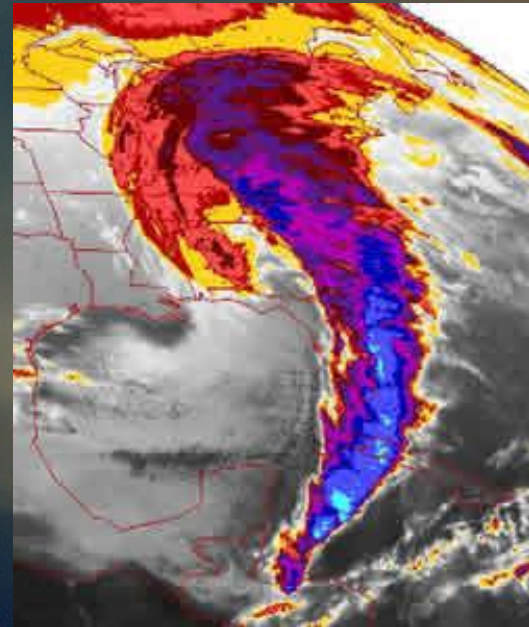
**Ask
Questions!!**





When The Weather Turns Severe...

- Mission = Protect Life and Property.
- Issue warnings to alert public of severe weather, floods, blizzards, ice storms, high winds, hurricanes and coastal storms.





Note: If you are not from Eastern North Carolina, we will forward your information to YOUR local office!





Our Local Office



Eastern part of North Carolina

Includes: Land areas, inland rivers, sounds, and adjacent ocean

Other parts of the state covered by other local offices (Raleigh, Wilmington, etc)





Open 24/7/365



Hurricane Florence

Staff here for 3 to 7 days



Our building is designed to withstand storms

We stay when the weather is bad



SKYWARN



- **SKYWARN** is a National volunteer program run by the National Weather Service
- **SKYWARN's** goal is to provide NWS with "Ground Truth Reports" of significant weather



Tree Damage
Warsaw, NC 2/24/16



How do Weather Spotters help the NWS?

- Real time reports **assist** the National Weather Service in our warning decisions.
- Helps forecasters **gauge** how severe a storm is.
- Your information may be the reason a warning is issued, and/or provides **credibility** to a warning.
- You could help provide the citizens of your community with potentially **life-saving** information.
- SKYWARN provides a backbone of emergency communications.
- **The trained eye of the storm spotter is still our greatest asset!**



Fundamental Definitions

Watch

Conditions are favorable for the weather event in/near the watch area. Issued by NWS Storm Prediction Center (SPC).

Warning

The weather event is imminent or occurring in the warned area. Issued by NWS Newport.

Severe Thunderstorm

A storm which produces hail 1 inch diameter or larger and/or wind gusts 58 mph or stronger.



Fundamental Definitions

Tornado:

A violently **rotating** column of air pendant from a thunderstorm and **in contact** with the ground.



Funnel Cloud:

A **rotating**, funnel-shaped (typically) cloud extending from a thunderstorm base. A funnel cloud is attached to the cloud base and **does not reach the ground**. It exhibits rapid rotation and is most often smooth in appearance.





Our Website

weather.gov/newport



Weather
information from
past events,
current weather,
and forecast

Explore the website
and bookmark or
save what you like

Go in depth as
much as you need

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION


HOME FORECAST PAST WEATHER SAFETY INFORMATION EDUCATION NEWS SEARCH ABOUT

Local forecast by "City, St" or ZIP code
Enter location ...
[Location Help](#)


News Headlines


- [The Fall 2019 Edition Of Our Newsletter, Carolina Skywatcher, Is Now Online!](#)

MY FORECAST
Morehead City NC



Overcast
49°F
9°C [Get Detailed info](#)


Today

Partly Sunny
High: 55°F

Tonight

Mostly Cloudy
Low: 43°F
[change location](#)

NWS Forecast Office Newport/Morehead City, Newport/Morehead City, NC
Weather Forecast Office
[Weather.gov](#) > Newport/Morehead City, NC

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)


Click a location below for detailed forecast.





[Watches, Warnings & Advisories](#)

- [Coastal Flood Advisory](#)
- [High Surf Advisory](#)
- [Small Craft Advisory](#)
- [Hazardous Weather Outlook](#)

Last Map Update: Tue, Nov. 19, 2019 at 11:58:19 am EST

Tropical


Local Radar


Satellite

11/19/19 16:46Z GOES-East



7- Day Forecast

weather.gov/newport



Sky cover



High/low temperatures



Winds



Chance of precipitation

Detailed Forecast

Today	Mostly cloudy, with a high near 54. Light northwest wind.
Tonight	Mostly cloudy, with a low around 38. West wind 5 to 7 mph.
Wednesday	Sunny, with a high near 60. Northwest wind 7 to 9 mph.
Wednesday Night	Mostly clear, with a low around 38. Light north wind.
Thursday	Sunny, with a high near 60. Light and variable wind becoming northwest around 5 mph.
Thursday Night	Partly cloudy, with a low around 44.
Friday	Mostly sunny, with a high near 67.
Friday Night	Mostly cloudy, with a low around 48.
Saturday	A chance of showers. Mostly cloudy, with a high near 64. Chance of precipitation is 50%.
Saturday Night	A chance of showers. Mostly cloudy, with a low around 44. Chance of precipitation is 50%.
Sunday	Partly sunny, with a high near 58.
Sunday Night	Mostly clear, with a low around 39.
Monday	Sunny, with a high near 60.

Extended Forecast for

New Bern NC

Today



Mostly Cloudy

High: 54 °F

Tonight



Mostly Cloudy

Low: 38 °F

Wednesday



Sunny

High: 60 °F

Wednesday Night



Mostly Clear

Low: 38 °F

Thursday



Sunny

High: 60 °F

Thursday Night



Partly Cloudy

Low: 44 °F

Friday



Mostly Sunny

High: 67 °F

Friday Night



Mostly Cloudy

Low: 48 °F

Saturday



Chance Showers

High: 64 °F



Hourly Forecast

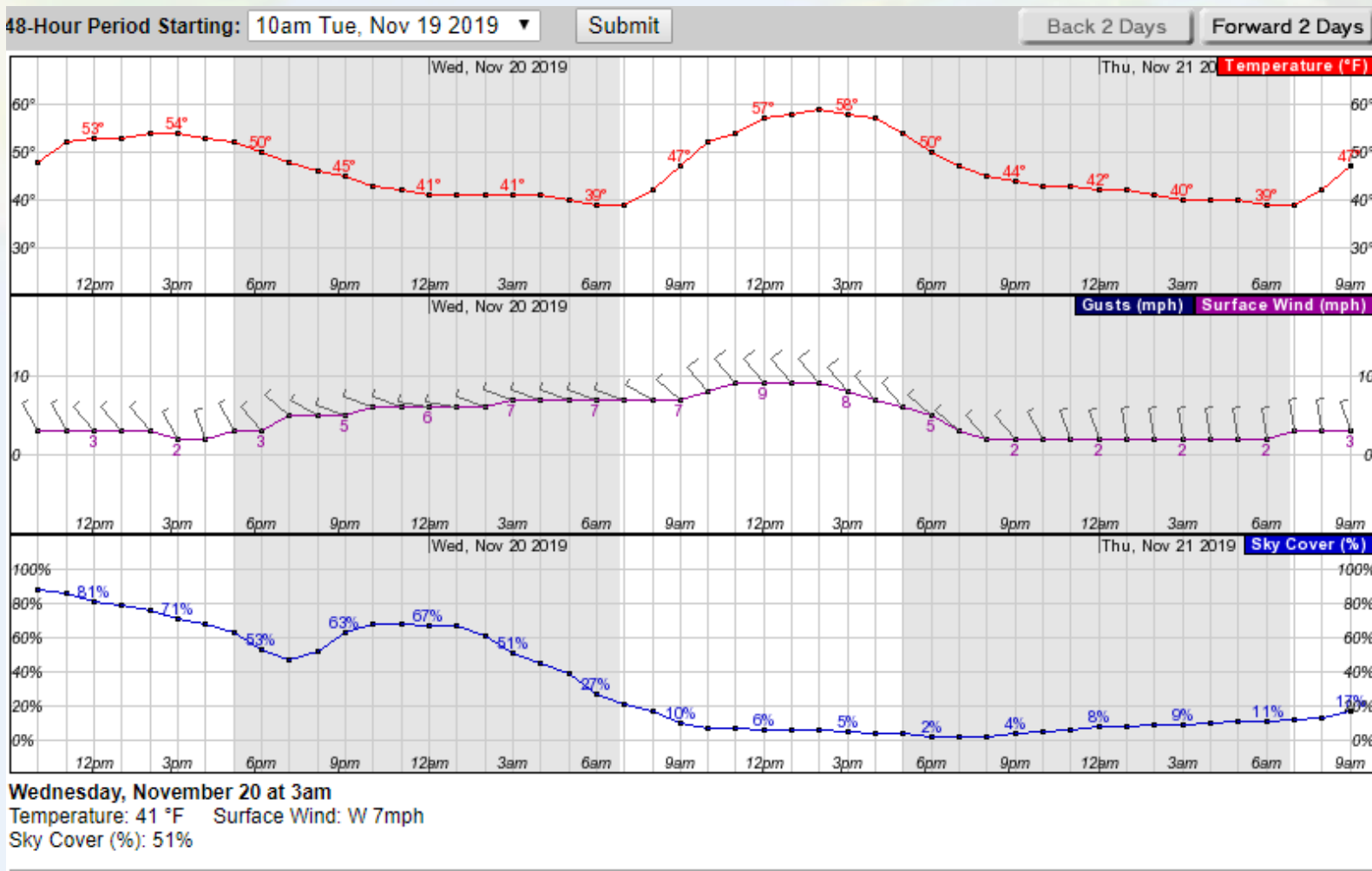
weather.gov/newport



Check on
and off any
weather
parameter
you want

See trends
in hourly
increments
out
through 7
day

Digital
readout
available





Weather Briefings

weather.gov/newport



HOME FORECAST PAST WEATHER SAFETY INFORMATION EDUCATION NEWS SEARCH ABOUT

Local forecast by "City, St" or ZIP code

Enter location ...

Go

[Location Help](#)

News Headlines

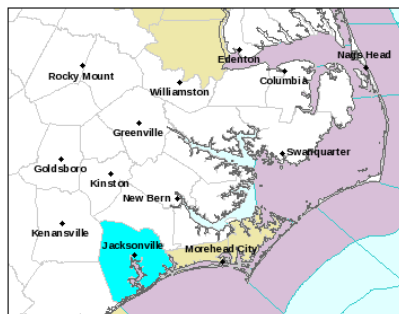
- [Here's the Updated Skywarn Training Schedule!](#)
- [Here's a Summary on the March 2-5, 2018 Wind/Coastal Flood/Low Water Event.](#)
- [Summary on the Minor Winter Weather Event, March 12-13, 2018](#)

NWS Forecast Office Newport/Morehead City, Newport/Morehead City, NC

[Weather.gov](#) > Newport/Morehead City, NC

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

Click a location below for detailed forecast.



Last Map Update: Thu, Mar. 22, 2018 at 11:05:21 am EDT

[Watches, Warnings & Advisories](#)



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[Weather Information Display](#)



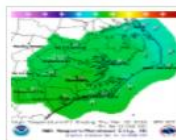
[Forecast Maps](#)



[Hour by Hour Forecast](#)



[Winter Weather](#)



[Map View](#)



[Surf Forecast/Rip Currents](#)



[Weather Hazard Briefing \(when applicable\)](#)



[Local Self-Briefing Pages](#)



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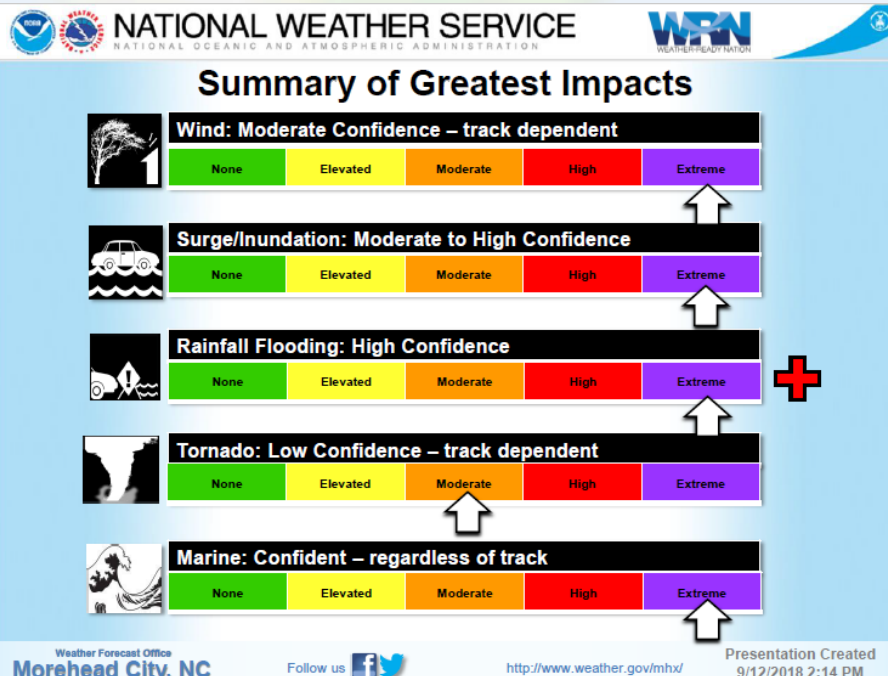
[MHX RSS Feed](#)

Created prior to bigger events of severe weather



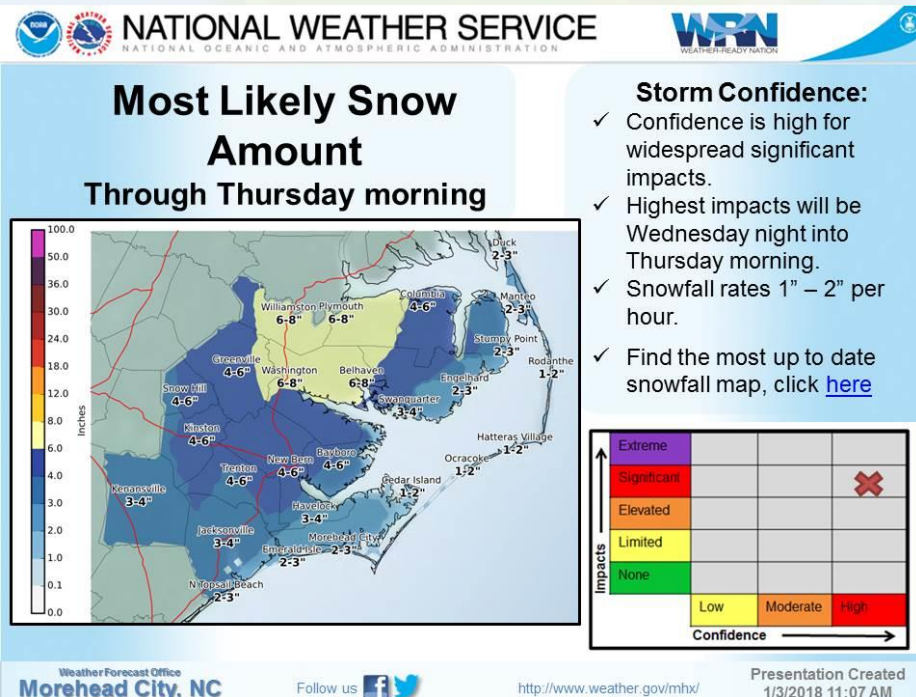
Weather Briefings

weather.gov/newport



Hurricane Florence Impacts

January 2018 Winter Storm





Social Media

Search NWS Morehead City



April 2020 Example

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Summary of Greatest Impacts

- Damaging Thunderstorm Wind Gusts: All of Eastern NC**
None Limited **Elevated** Significant Extreme
- Tornadoes: All of Eastern NC**
None Limited **Elevated** Significant Extreme
- Strong Sustained Winds: Coastal NC**
None Limited **Elevated** Significant Extreme
- Coastal Flooding: Coastal NC**
None Limited **Elevated** Significant Extreme
- Marine: All Marine Areas**
None Limited **Elevated** **Significant** Extreme

Weather Forecast Office
Morehead City, NC

Follow us on [Facebook](#) [Twitter](#) [YouTube](#)

<http://www.weather.gov/morehead>

Presentation Created: 4/12/2020 6:55 PM

Erik Heden | Warning Coordination Meteorologist

Severe Weather Expected Tomorrow

NWS Weather Forecast Office
Newport/Morehead City

Find the latest forecast at
Weather.gov/MoreheadCity

Follow us on social media
[Facebook](#) [Twitter](#) [YouTube](#)
[@NWSMoreheadCity](#)



Mobile Forecasts


mobile.weather.gov



Quickly access
hourly forecasts,
radar, and more
from your local
office,
ANYWHERE in
the country

Can work like a
weather “APP” by
adding it to home
screen


Also works on PCs

 **National Weather Service**

Morehead City NC




Current Conditions

Beaufort Smith Field
Updated: 19 Nov 09:58 am EST



 **48 °F**
Wind NE 3 MPH
Dew Point 46 °F
(93% RH)

Overcast



Forecast
19 Nov 09:58 am EST

Today	Tonight	Wednesday
 Partly Sunny Hi 55°F	 Mostly Cloudy Lo 45°F	 Sunny Hi 58°F





Verizon 3:42 PM 50%
mobile.weather.gov

 **Hourly Forecast** 

Topeka KS

 **Tonight** **Sunday Night** 

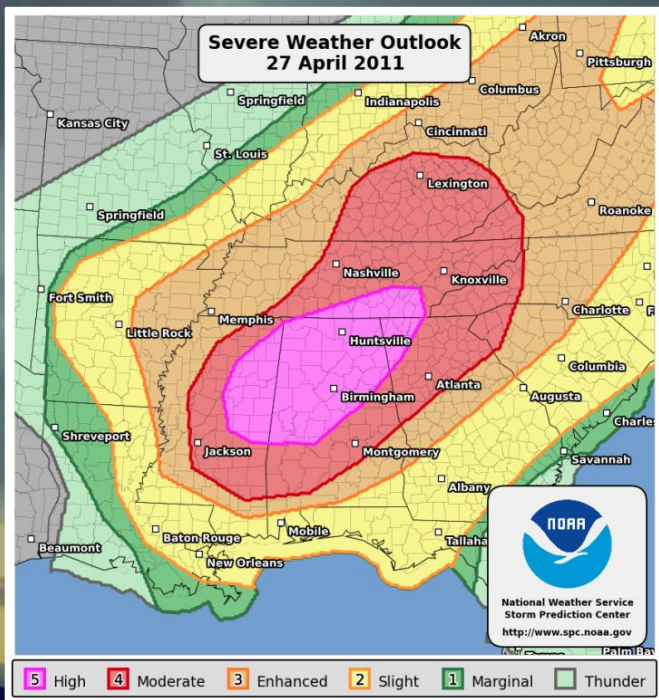
SUN, FEB 26

6 am  30%	Chance Snow Temp: 34°F Wind: SSW @ 6 mph
7 am  30%	Chance Rain And Snow Temp: 35°F Wind: SSW @ 5 mph
8 am  30%	Chance Rain And Snow Temp: 36°F Wind: S @ 5 mph
9 am  30%	Chance Rain Temp: 37°F Wind: S @ 5 mph



Severe Weather Risk Categories

www.spc.noaa.gov



Outlines Where Severe Weather is
Possible

Planning for Next 1 to 8 Days

General Thunderstorms or Marginal Risk

Isolated Severe Weather Possible

Slight Risk or Enhanced Risk

Some Severe Weather Expected
Severe Thunderstorm or Tornado Watch Likely

Moderate Risk

Severe Weather Likely - Big Outbreak Possible

High Risk

Major Outbreak Likely

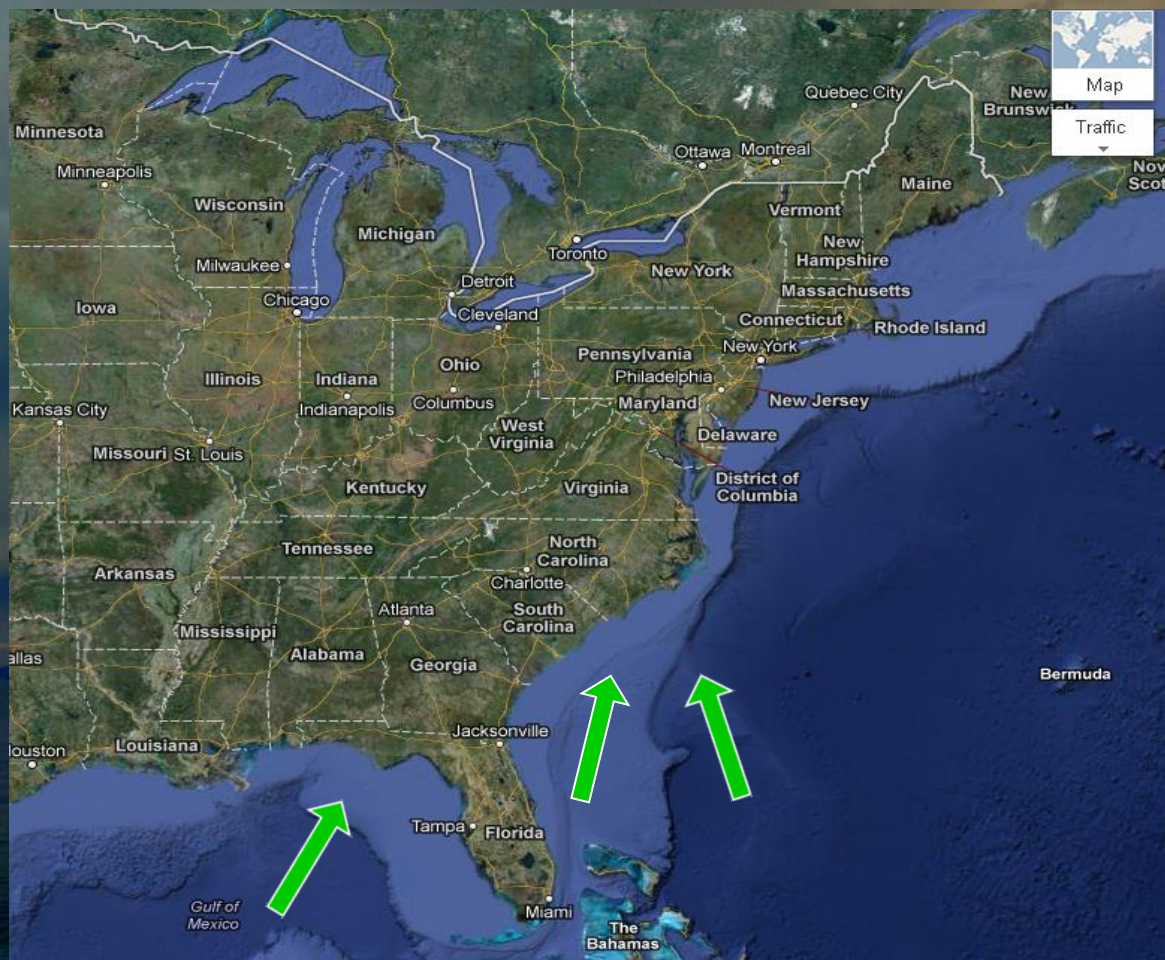


What causes Thunderstorms?

- Moisture
- Instability
- Lift
- Think of it like a recipe. You need all three of these to be complete.

What causes Thunderstorms- Moisture

- Sources of moisture can include the Atlantic Ocean or Gulf of Mexico

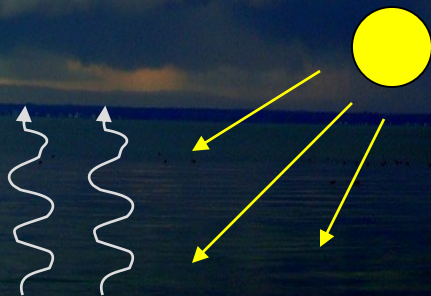




What causes Thunderstorms- Instability

Cold air versus Warm air

- Warm air is lighter than cold air. If air is warmer than its surroundings, it will rise.
- The greater the difference between the surface (very warm) and aloft (very cold), the greater the instability.



Daytime heating is one way to warm up the lowest layer of the atmosphere.

Sun heats ground. Ground heats the air above.



What causes Thunderstorms- Instability

Soda Bottle Example



The coke is the moisture.

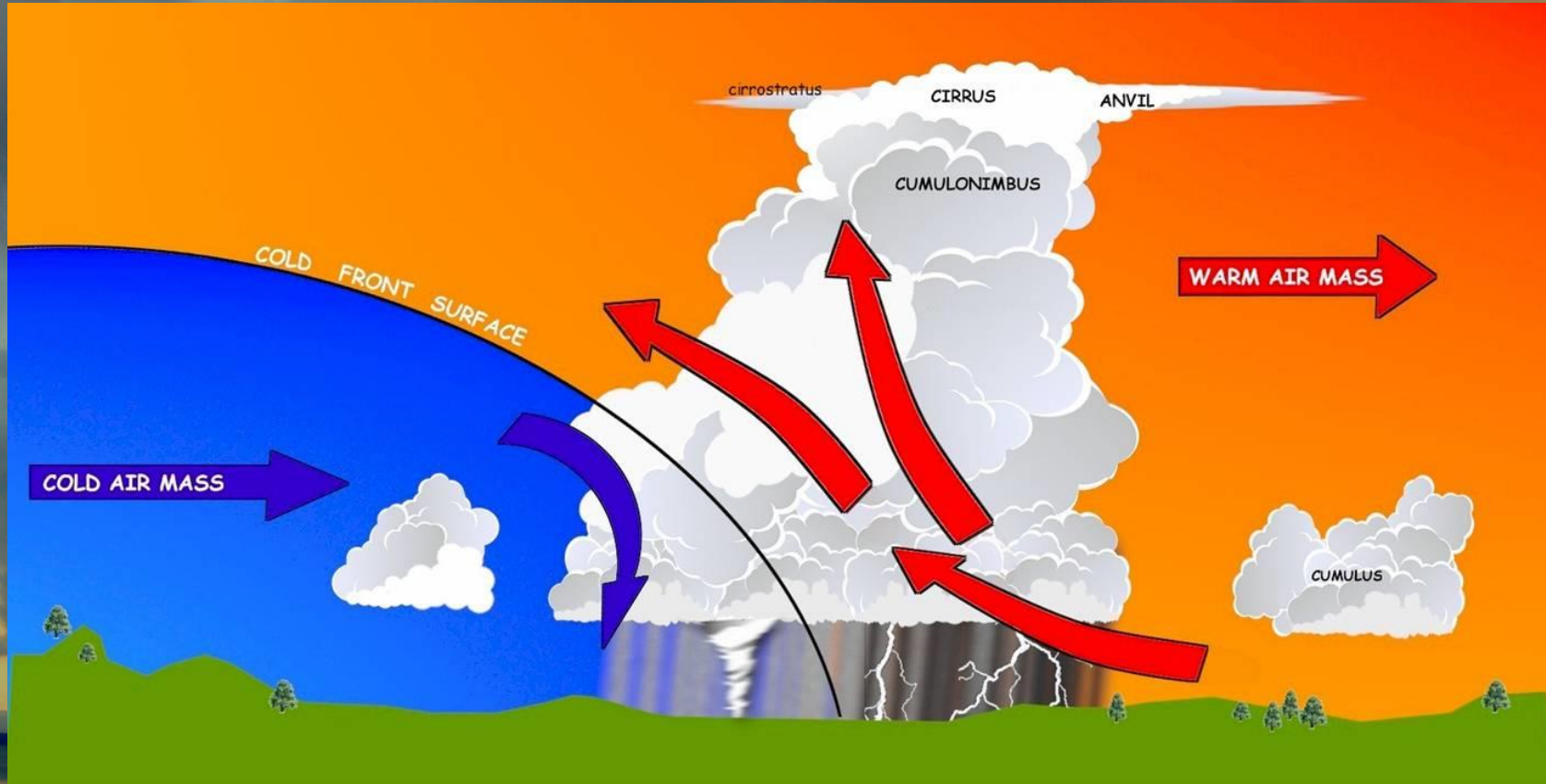
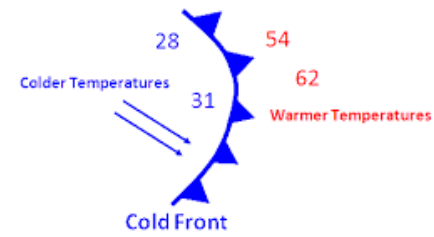
The bubbles are the instability.

Nothing happens at this point,
because you are lacking the last ingredient.



Lifting Mechanisms

Cold Front

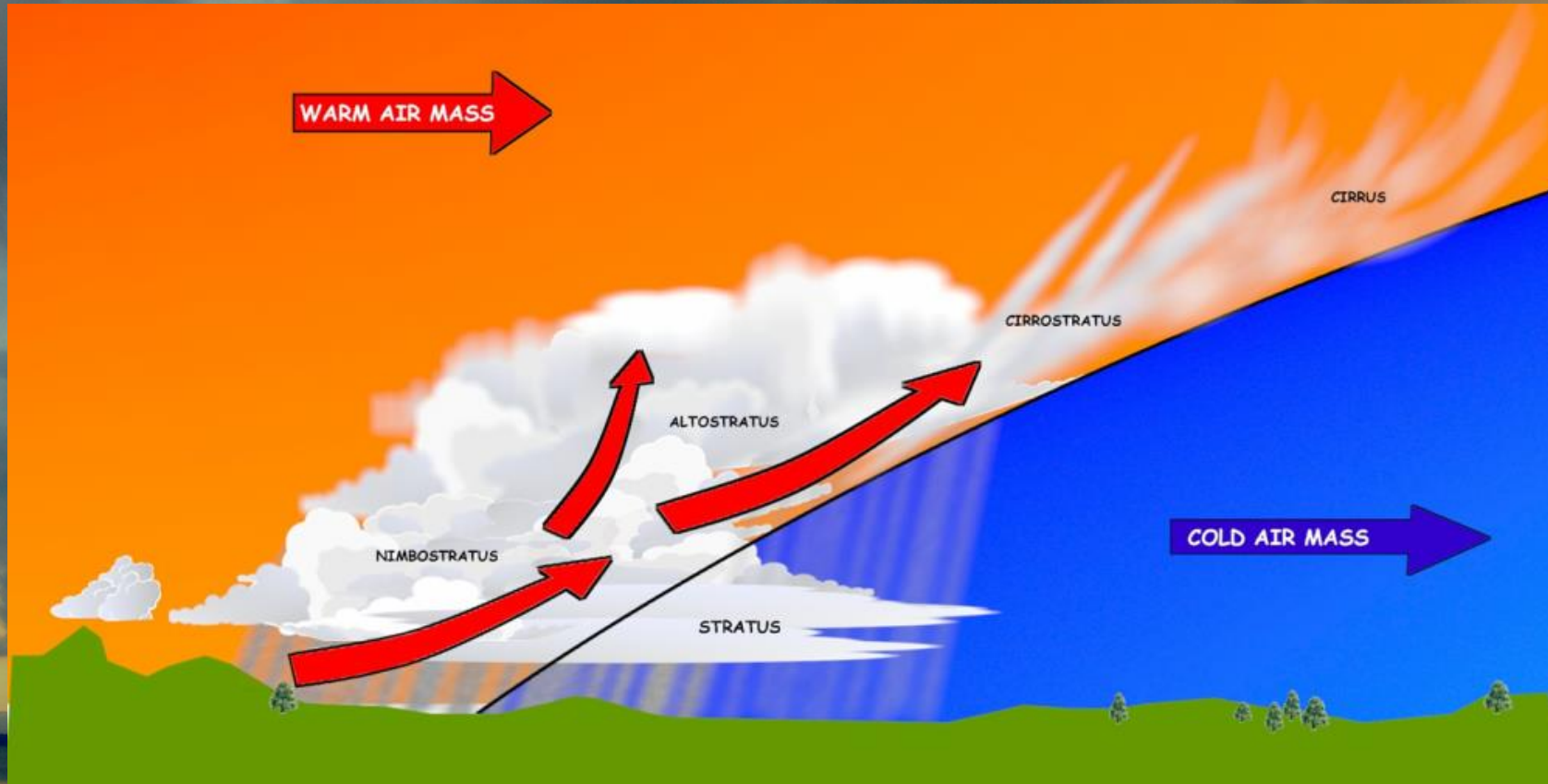
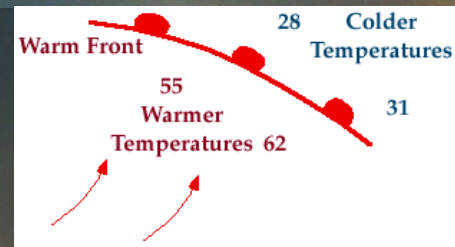


Colder air is denser than the warm air ahead of the front. The warmer air is forced to rise up. If the air is unstable, it will keep rising. Cold fronts often initiate lines of showers and thunderstorms.



Lifting Mechanisms

Warm Front



Again, the colder air is denser than the warm air. As the warm air encounters the cold air, it is forced to rise up and over. If the air is unstable, showers and thunderstorms can form.

How do I make my report?

Call the Spotter Hotline:

**REPORTS
ONLY!**

1-800-889-6889

**REPORTS
ONLY!**

Note: This is specific to Eastern NC. Outside the area follow future info sent to you!

This is a special number only for
spotters and rings directly to us!

1. Who you are: Trained Skywarn Spotter
2. What you saw (funnel cloud etc.)
3. Where you saw it (Newport).
4. When you saw it (6:45 P.M.) or 5 minutes ago, etc.

REMEMBER... Spotters can help save lives by... Making their reports!

**REPORTS
ONLY!**

Email US!!!

**REPORTS
ONLY!**

Wxobs.mhx@noaa.gov

Note: This is specific to Eastern NC. Outside the area follow future info sent to you!

1. Who you are: Trained Skywarn Spotter.
2. What you saw (large trees down. More than a few. 70 mph winds estimated)
3. Where you saw it (1 mile east of Beaufort)
4. When you Saw it (2:35 PM)



Types of Thunderstorms

Single
Cell

Multicell
Cluster

Multicell
Line
"Squall Line"

Supercell

Weak updraft
(non-severe
or severe)

Moderate
updraft (non-
severe
or severe)

Moderate
updraft (non-
severe
or severe)

Intense updraft
(Always severe)

**Mesocyclone -
Rotating updraft**

Slight threat

*Moderate
threat*

*Moderate
threat*

High threat





SINGLE CELL STORM

- Notice the cloud is towering and shows a bubbly nature (we have some instability).
- Also notice the cloud is in the vertical (straight up and down), and does not tilt.
- Being straight in the vertical will reduce the storm's chance of lasting a long time

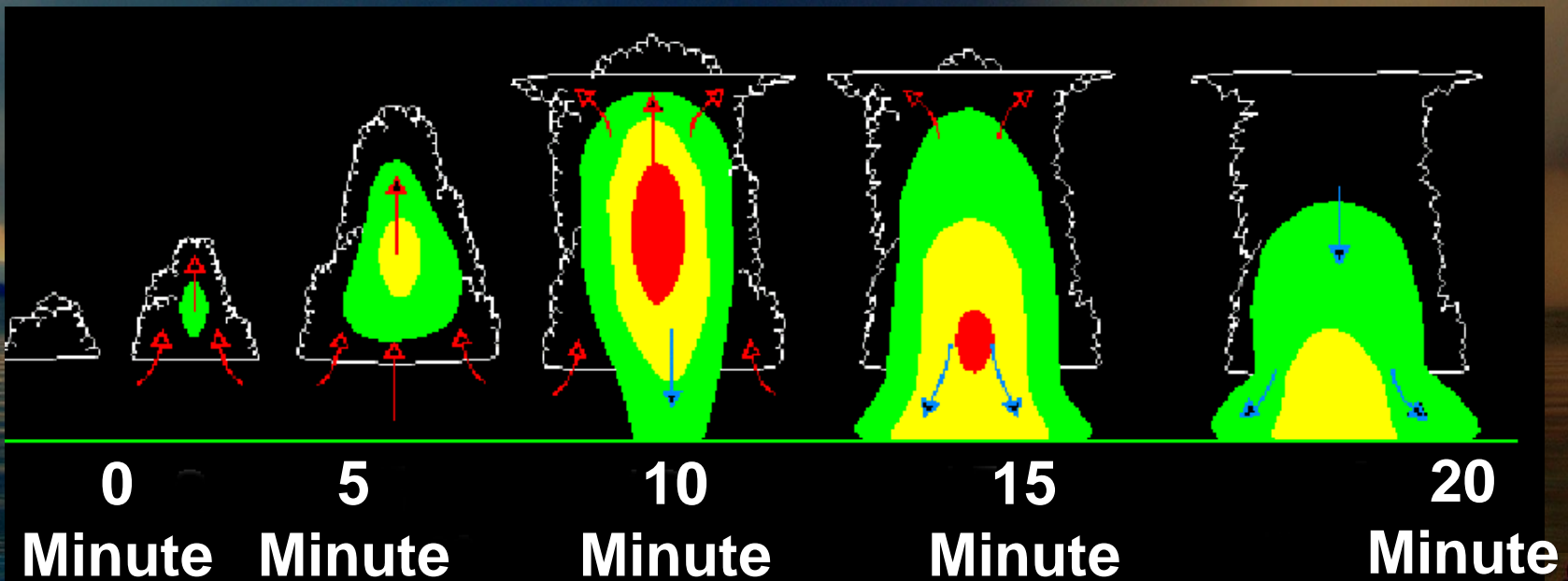




Single Cell Summary...The most elusive of thunderstorms!



- The norm is ...isolated downbursts...small hail...and heavy rain.
- Storm is generally disorganized in nature.
- Low degree or predictability of severe events. (Pulse storms)
- Tornado potential is low. Possible intersection of boundaries or cell mergers.





Report Any Size Hail!!

● Actual Size of the Hail is ALWAYS Recommended. However, storm spotters use these common terms for conveying hail reports to the NWS. Following is a list of the most common terms and the accompanying conversion to hail sizes:

● Pea	$\frac{1}{4}$ inch	Egg	2 inches
● Penny	$\frac{3}{4}$ inch	Tennis Ball	2 $\frac{1}{2}$ inches
● Quarter	1 inch	Baseball	2 $\frac{3}{4}$ inches
● Half Dollar	1 $\frac{1}{4}$ inches	Grapefruit	4 inches
● Walnut	1 $\frac{1}{2}$ inches	Softball	4 $\frac{1}{2}$ inches
● Golf ball	1 $\frac{3}{4}$ inches		

Nickel sized hail is considered 0.88 of an inch.



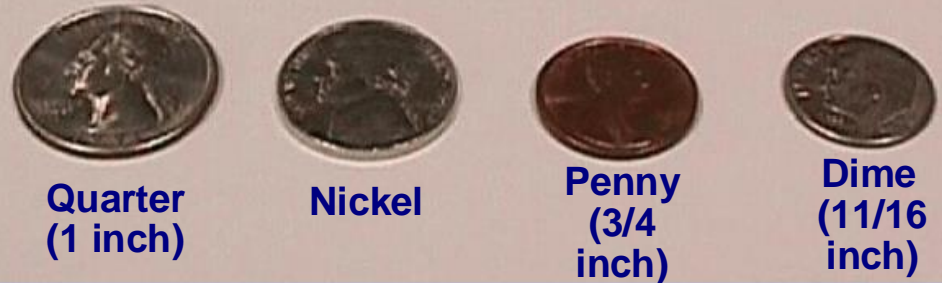
**Please do NOT report
hail as marble size!!**

I've got hail
the size of
quarters!



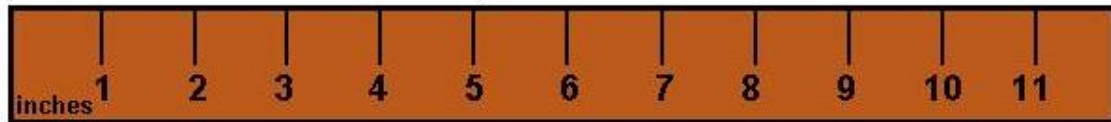
Katherine Thomasson

Reference hail size in inches or relate it to the
size of a coin.



The diameter of this enormous
hailstone is measured to be over 5
inches!

Use hail estimation
cards, rulers, calipers
or loose change to
measure hail.





Hail Summary

- Report any size hail
- Make sure to give the size of the largest stone
- An example would be, we are getting nickel size hail but a few are as large as a quarter
- Don't use marbles to report size!



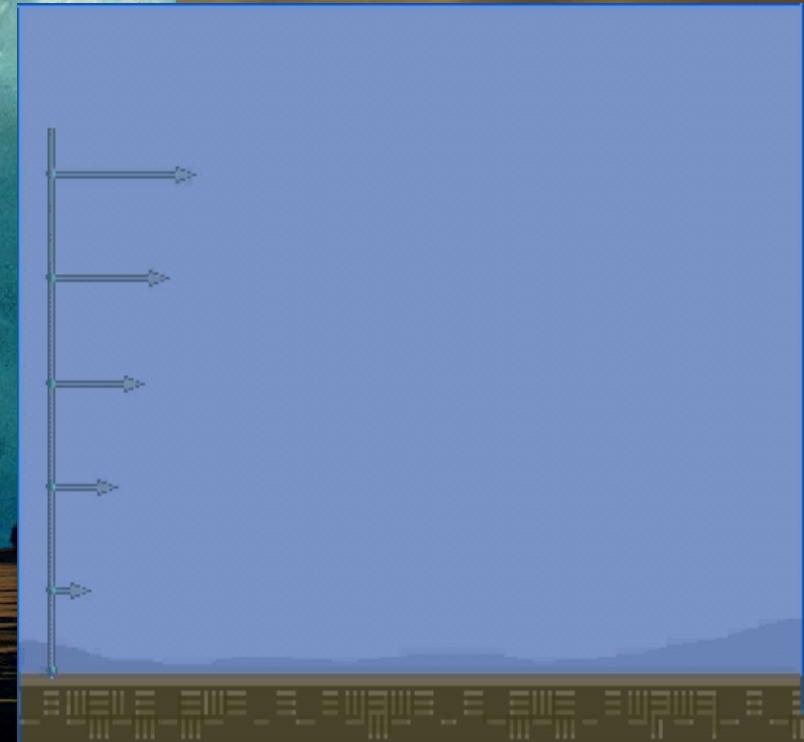
Multi-cell Storm Clusters & Lines



If there is moderate wind shear the storms tilt and can organize into multi-cell clusters or lines



Stronger shear means a greater risk for severe storms





FLASH FLOODING

- Multi-cells can “train” over an area producing flash flooding





Flash Flooding...

- Significant = something never or rarely seen
- Ideally, we want to know “before” it gets really bad.
- Example, roads are becoming covered with water, my stream is rising fast and approaching bankfull.
- We want to know, how deep is the water? Compare it to a car, up to the tires, up to the doors, the roof, etc.
- Are roads washed out, impassable ?



Have A Rain Gauge?

Rainfall Reports extremely useful

- Rainfall reports help us confirm how the radar is doing with estimation.
- Knowing how much rain has fallen, gives us a good idea of the potential for flooding.
- Rainfall amounts of **2" or greater in 24 hours** or rainfall amounts of **2" in an hour or less** are MOST important.
- Think about CoCoRaHS.



HOW CAN I JOIN THE NETWORK?



Five easy steps

*Simply sign-up on the
CoCoRaHS web page:
www.cocorahs.org*

Obtain a 4" plastic rain gauge

*View the on-line "training slide show"
or attend a training session*

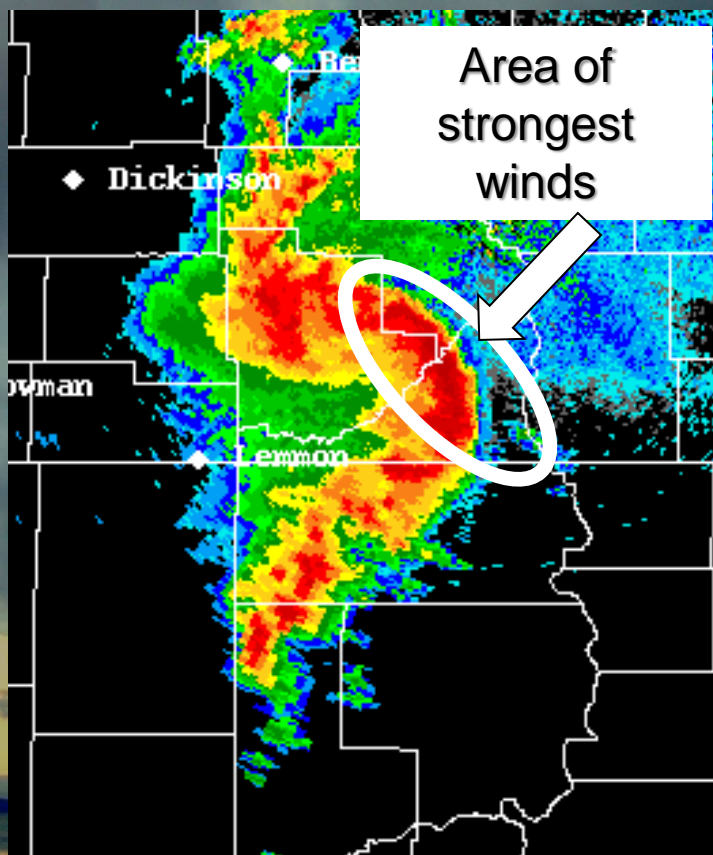
*Set-up the gauge in a "good"
location in your yard*

*Start observing precipitation
and report on-line daily*





Squall lines and multicell storms occasionally develop the appearance of a "bow echo".



Bow echoes are usually associated with an axis of enhanced winds that create straight-line wind damage at the surface.



Shelf Cloud

Leading edge of gust front



Harkers Island, NC May 30, 2017

This storm produced wind gusts as high as 82 MPH at Fort Macon



Microburst in Canada





Wind Damage...

- Damage? Trees, power lines, etc.
- How many trees down?
- How big are the branches?
- Was the tree dead already?
- If it was a very strong wind, do you have any damage to buildings (ie windows blown out, roofs blown off, etc.)
- Can you estimate the wind speed?



How do I make my report?

<http://www.facebook.com/NWSMoreheadCity>

The Facebook logo, consisting of the word "facebook" in white lowercase letters on a blue rectangular background.

Be sure to identify yourself as a
trained spotter!

Post a picture to our wall!

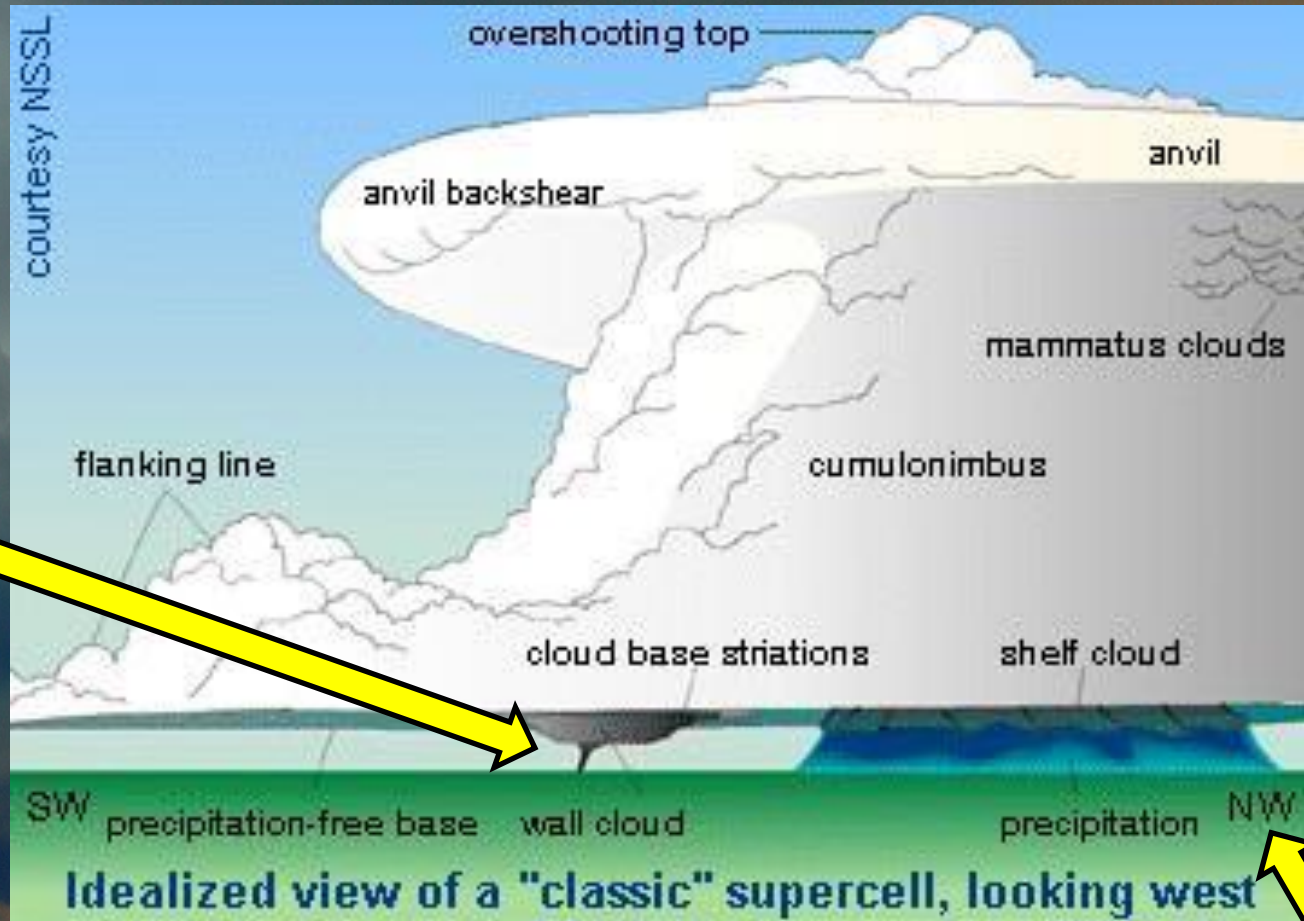
1. Who you are: Trained Skywarn Spotter
2. What you saw (quarter size hail. Hail lasted 5 minutes)
3. Where you saw it (North Towanda)
4. When you saw it (12:45 PM.)



Supercells



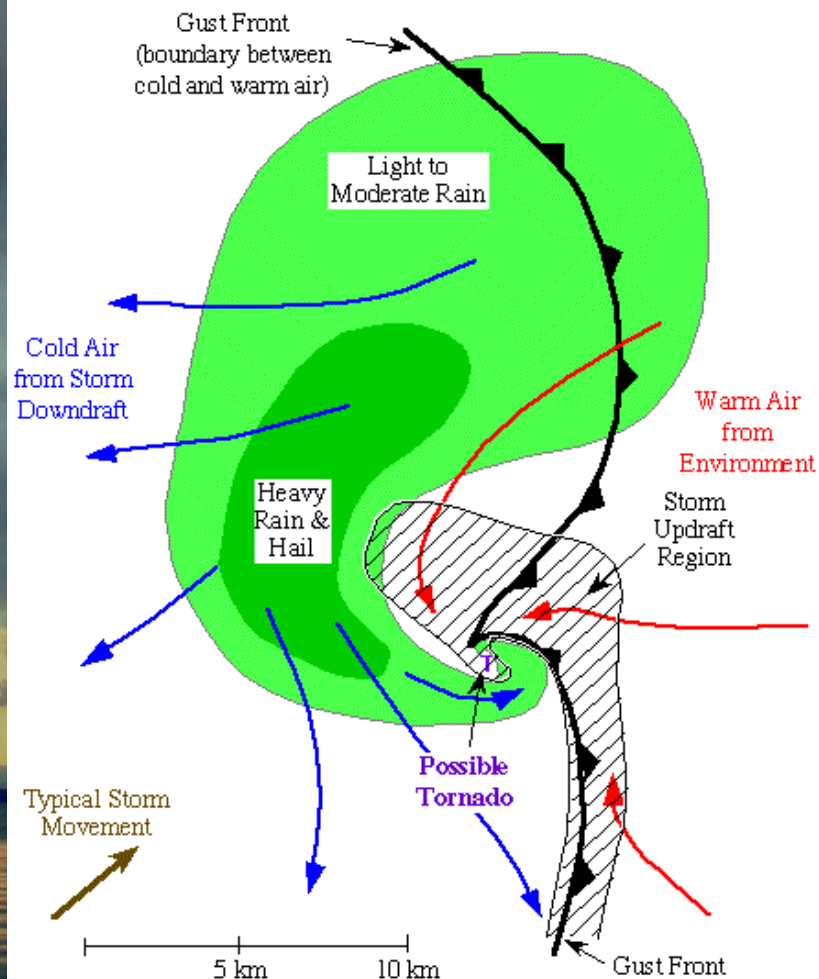
Most likely area for tornadoes and very strong updrafts (back side of storm).



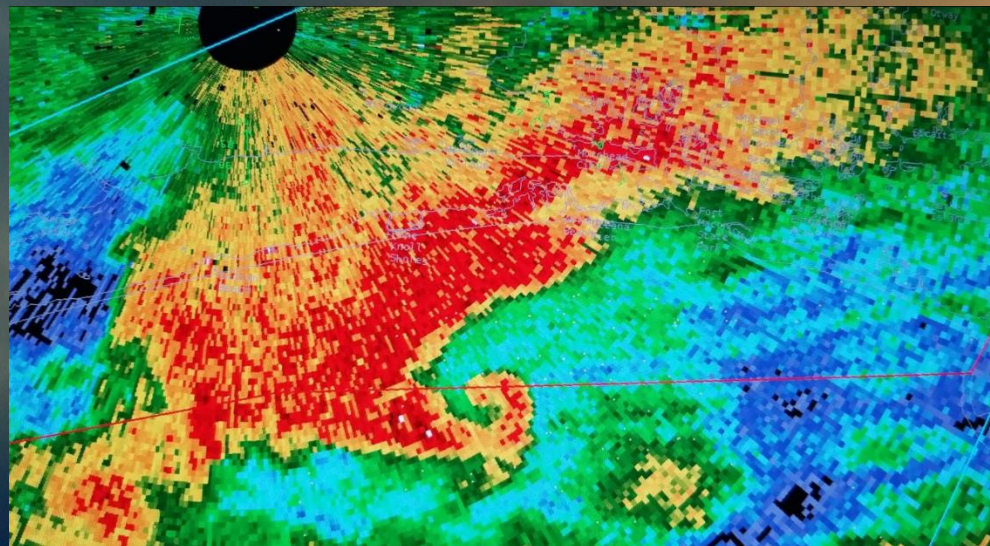
Most likely area for stronger winds, rain, and hail (front side of storm).

Supercell from above, and on radar

Schematic of Surface Conditions Common with a Supercell Thunderstorm



©1997 Oklahoma Climatological Survey. All rights reserved.



Atlantic Beach EF-1 Tornado, November 13, 2018

“Hook Echo”



Tropical Tornadoes

- Landfalling or remnant systems
- Right front quadrant
- Leads to increase in fatalities and damage
- Majority are EF-0 or EF-1
- Often associated with rainbands
- Can occur day or night
- Often short lead time

Waterspouts

- Most common on summer mornings
- Can form from developing cumulus or thunderstorms
- Wind can reach 100 mph
- Difficult to detect on radar/difficult to warn for



Outer Banks
waterspouts, August
2005



Tornadoes or Funnel Clouds...

- Do you have rotation?
- Does it extend to the ground?
- What is the damage like?
- Be clear about whether it is happening now or was it recently? Give a time.
- Is it over the water? Waterspout.





More Ways To Report Twitter

Follow us
@NWSMoreheadCity

NWS Newport/Morehead
@NWSMoreheadCity

Official Twitter Account for National Weather Service, Newport/Morehead City, NC. Details: weather.gov/twitter

Newport, NC
<http://weather.gov/mhx>
Joined September 2012

Tweets 9,704 Following 278 Followers 7,367 Likes 2,149 Lists 9

Tweets Tweets & replies Media

NWS Newport/Morehead @NWSMoreheadCity · 13h
Drought conditions are returning to North Carolina with Abnormally Dry conditions over the Coastal Plains and Moderate Drought conditions over the Piedmont.

NATIONAL WEATHER SERVICE
Drought Conditions Developing

Who to follow · Refresh · View all

- NWS Columbia** @NWS... Follow
- NWS GSP** @NWSGSP Follow
- NWS Jackson KY** @nwsj... Follow

Example: **@NWSMoreheadCity** 1 Inch diameter hail
in Cape Carteret at 4:25 pm



Funnel clouds?

Hint: They are not rotating...



Copyright Brad Temeyer



These are **NOT** funnel clouds. Don't be fooled by these non-rotating low hanging clouds (scud clouds)!!

The Enhanced Fujita Scale

Tornadoes are classified according to the intensity of damage they cause to objects



<u>SCALE</u>	<u>MPH</u>	<u>EXPECTED DAMAGE</u>
EF0	65-85	LIGHT
EF1	86 -109	MODERATE
EF2	110-137	CONSIDERABLE
EF3	138-167	SEVERE
EF4	168-199	DEVASTATING
EF5	200-234	INCREDIBLE

How We Determine a Tornado

What Do We Do On These Storm Surveys?

The pattern of damage determines if it was a tornado NOT how much damage was caused.



Large Uprooted Trees In A Convergent Pattern (crossing each other)

Tornado damage often has a chaotic appearance, with larger uprooted trees often crossing each other.

We often look at larger uproots of trees to get a true idea of where the wind was blowing from. Smaller branches/snapped trees are not as helpful, as they may fail based on the tree itself and not where the wind was coming from.

Especially in our area, tornadoes AND microbursts can cause the same amount of damage.

We conduct surveys to find out exactly what happened. This helps us to improve our warnings for the future. This is also important for historical reference.

How We Determine a Microburst

What Do We Do On These Storm Surveys?

The pattern of damage determines if it was a tornado NOT how much damage was caused.

Microburst damage often looks laid or flattened out. Larger uprooted trees point in the same direction, or a fan shaped (divergent pattern).



Large Uprooted Trees Flattened In A Similar Direction)



We use a compass, lined up with the trunk of an uprooted tree, to determine the wind direction.

Microbursts can have wind speeds as high as 100 MPH!

We conduct surveys to find out exactly what happened. This helps us to improve our warnings for the future. This is also important for historical reference.



spotter quiz!





Tornado or funnel cloud?





Tornado or funnel cloud?

Debris at the ground indicates that the circulation aloft has reached the ground... making this a **TORNADO!**





mPING



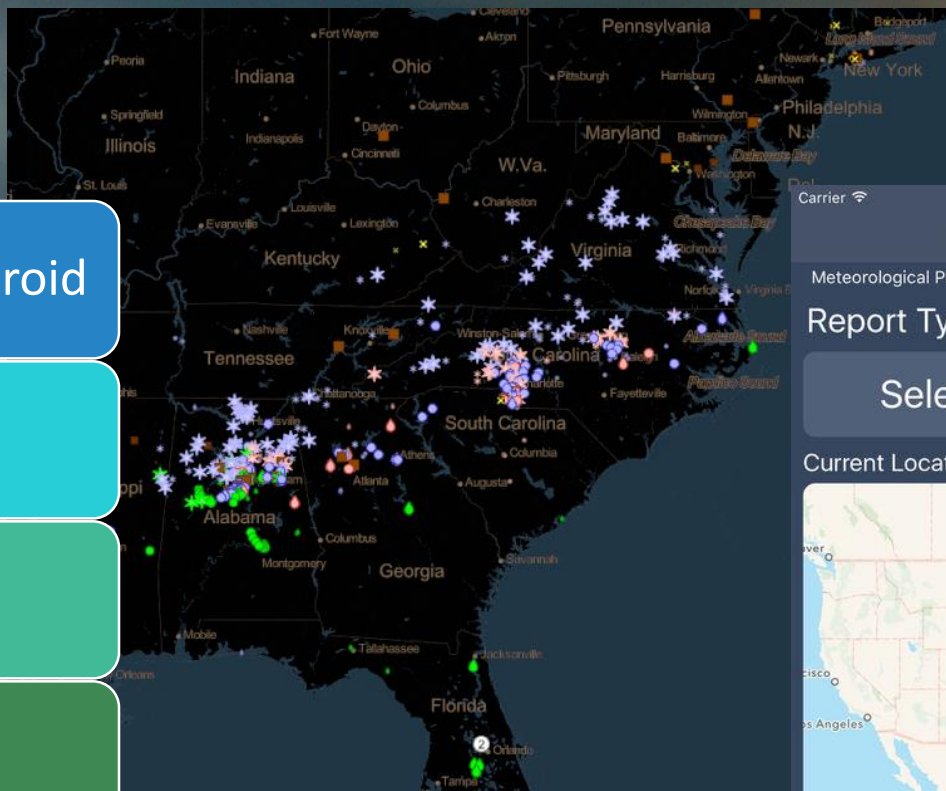
Available on iOS and Android

Reports sent to NWS

Reports are anonymous

Very easy to use

Website:
<https://mping.nssl.noaa.gov>



Carrier 9:56 AM

The mPING Project

Meteorological Phenomena Identification Near the Ground

Report Type Definitions

Select Report Type

Current Location

Legal

Submit Report *i*

View Reports



REMEMBER - Your reports are critical
so that the NWS can issue *life saving* warnings!



Our Warning Objectives:

- Issue warnings *before* severe weather occurs.
- *Don't* issue warnings for *non*-severe events.



**MORE REPORTS = CLEARER PICTURE OF HOW WELL
WE ARE DOING WITH OUR WARNINGS.**

**Real time reports are *crucial*, but even reports received the
next day are *extremely* helpful.**

CALL US WITH YOUR REPORTS: 1-800-889-6889



MYTH:

The NWS is already aware of the ongoing severe weather, so why should I report it?



Greene County

4/25/14

Credit: WNCT

THE TRUTH:

DON'T ASSUME that the NWS knows for certain that severe weather is occurring! (especially at night!)

MAKE THOSE REPORTS!

CALL: 1-800-889-6889



When Should You Contact Us?



Review

- Tornado or Funnel cloud (confirm rotation)
- Hail (any size)
- Wind damage- trees down, structural
- Flooding (closed roads, streams close to bankfull)
- Heavy rainfall (amounts of 2 inch or more in 24 hours or 2 inches in less than an hour).



Reporting Procedures Summary



1. Toll Free Number: **1-800-889-6889**
2. E-mail: **wxobs.mhx@noaa.gov**
3. Facebook 
4. Twitter or send them directly to us **@NWSMoreheadCity** 
5. CoCoRaHS



When Should You Not Call Us?

- **Non severe report**
(remember you should have wind damage if you are reporting strong winds)
- **Non specific report**
(heavy rain without a measurement, it's really windy, etc).
- **To report lightning.**



What Else To Report?

Year Round Spotter



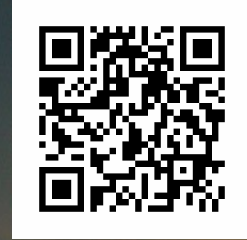
- Snowfall – take a few measurements in an area away from tall objects and does not drift to get an average. **Report snowfall to us in the nearest tenth of an inch.**

7.1”, 2.2”, etc

- Any accumulation of ice. What is it sticking to? Only the cars, only the sidewalks, etc. You can measure the thickness of the ice on branches (if you want). Just knowing the conditions though is the most important.



Future Classes



- We hold 4 SKYWARN classes throughout the year. **Basic Spring, Basic Winter, Flood/Tropical SKYWARN, Advanced SKYWARN.**
- We will **always** post future class information on our website **weather.gov/newport** at the top of the page. Also, we will post it on Facebook.
- Our goal is that you report to us year round (snow, hail, high winds, etc).



Keep Current



- **Bookmark**
weather.gov/mhx/MHXSkywarn
- You can find
YouTube training
for both winter and
spring skywarn
- You can also
refresh yourself on
when and how to
report along with
the current
schedule

Current Schedule When To Report How To Report **YouTube Training**

YouTube Training

Basic SKYWARN (Parts 1 through 7)
Watch all 7 videos and instructions on how to receive your certificate.

Single Cell	Multicell Cluster	Multicell Line	Supercell
Weak updraft (non-severe or severe)	Moderate updraft (non-severe or severe)	Intense updraft (non-severe or severe)	Intense updraft (Always severe)
Slight threat	Moderate threat	Moderate threat	High threat

Thanks for Your Interest!



erik.heden@noaa.gov

www.weather.gov/newport