



# ELSA BRIEFING

11:30 AM EDT  
Wednesday, July 7, 2021

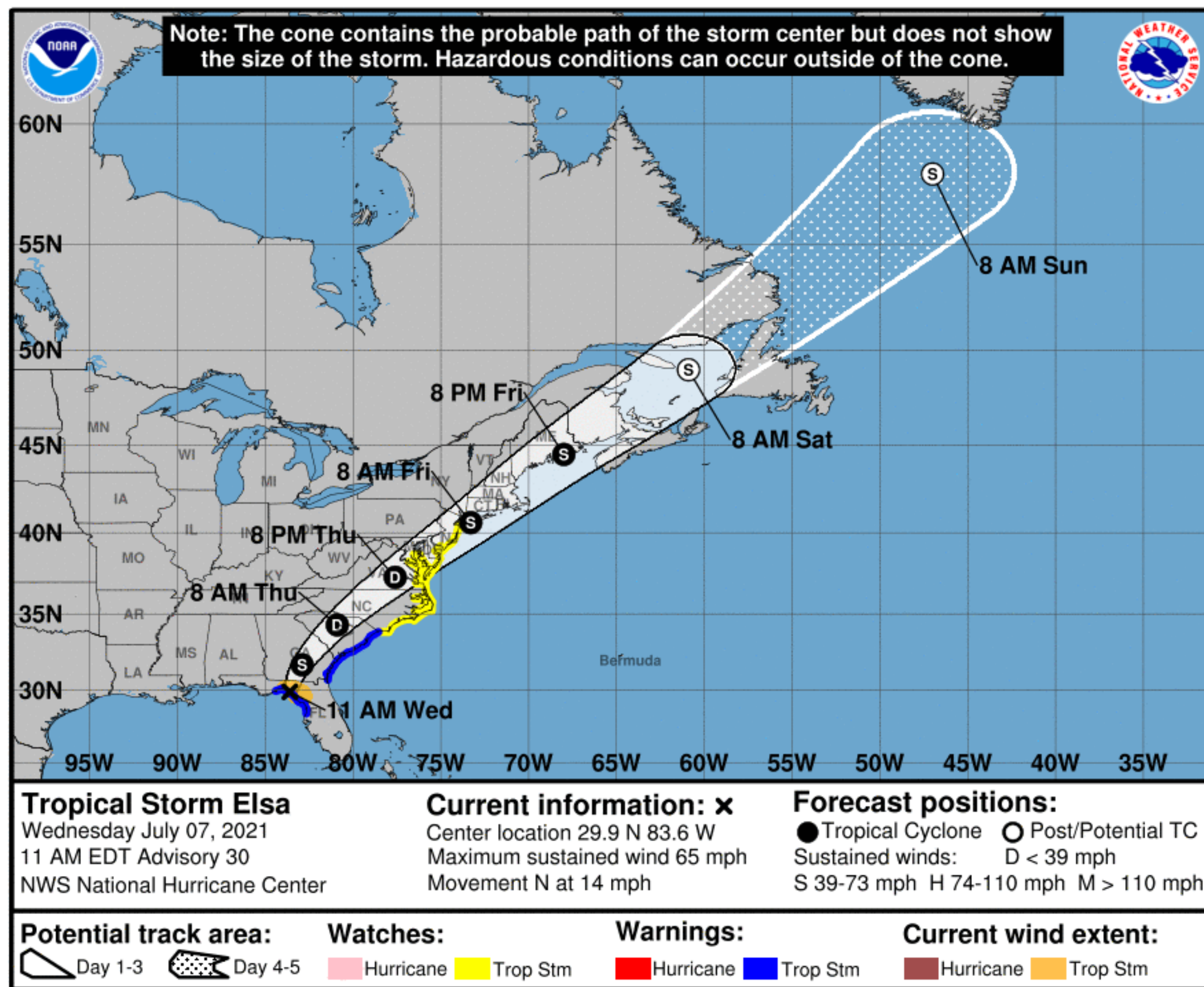
What has changed: swath of heavier rain shifting westward  
Next Briefing: Wednesday, July 7, at 5:00 PM EDT

*Disclaimer: The information contained within is time-sensitive. Do not use after 6:00 PM EDT Wednesday.*



# Situation Overview

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- Elsa is expected to be a weak tropical storm as it moves through North Carolina on Thursday.
- Given the weaker nature of Elsa by the time it reaches the Carolinas, limited impacts should be expected across central NC.




**NOTE:** Do not focus on the exact track.

Impacts can occur well outside the area enclosed by the cone.



# Situation Overview

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Hazard	Impacts	Location	Timing
 Wind	There is a minimal potential for damaging winds across parts of central NC. However, wind gusts up to 40 mph are possible.	Highest wind gusts along and east of US-1	Thursday
 Flooding Rain	1-3 inches of rain (with isolated higher amounts) could result in localized flash flooding.	Heaviest rain and flooding threat expected along and east of US-1. <b>However, models are trending westward with the western edge or western extent of the heavier rainfall.</b>	Thursday
 Tornado	There is a small risk (level 1 of 5) for isolated tornadoes.	Eastern NC (mainly east of US-1)	Thursday

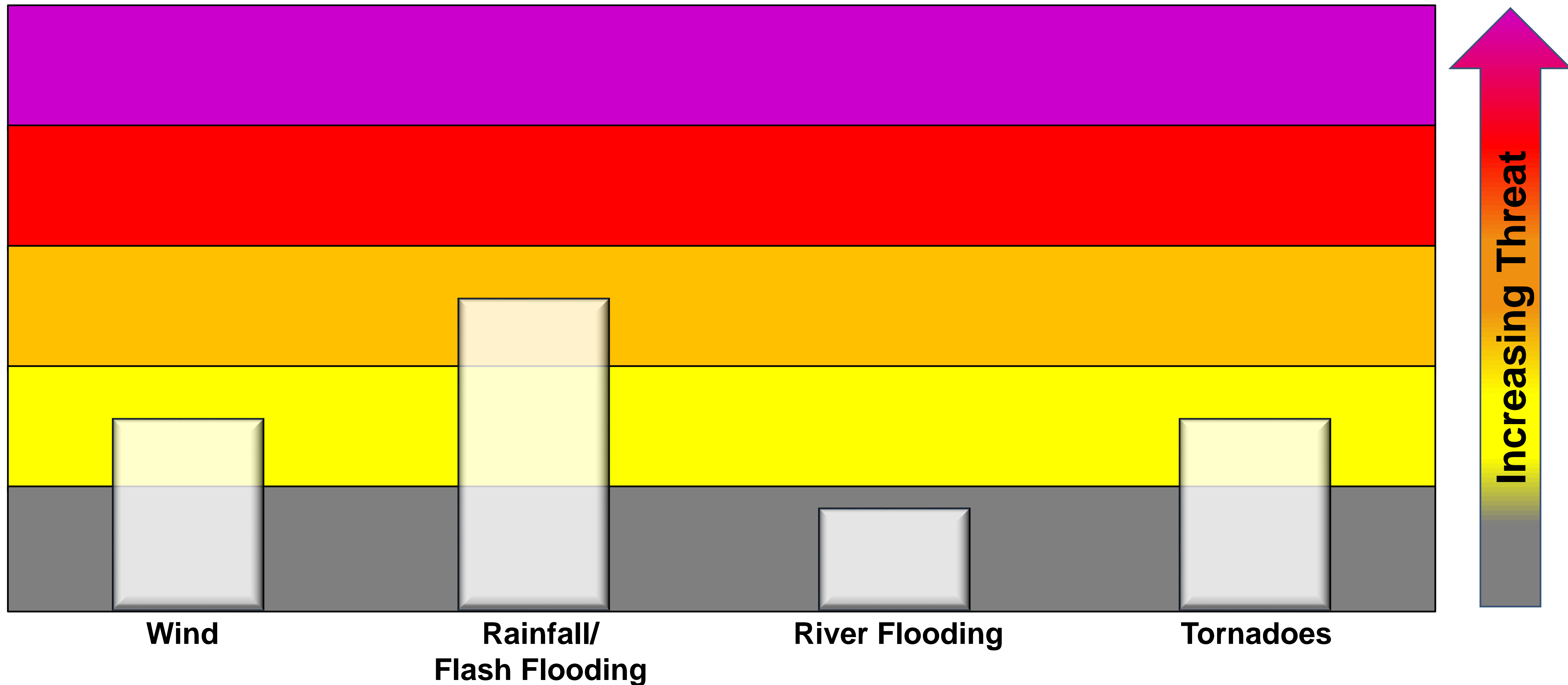




# Threat Levels

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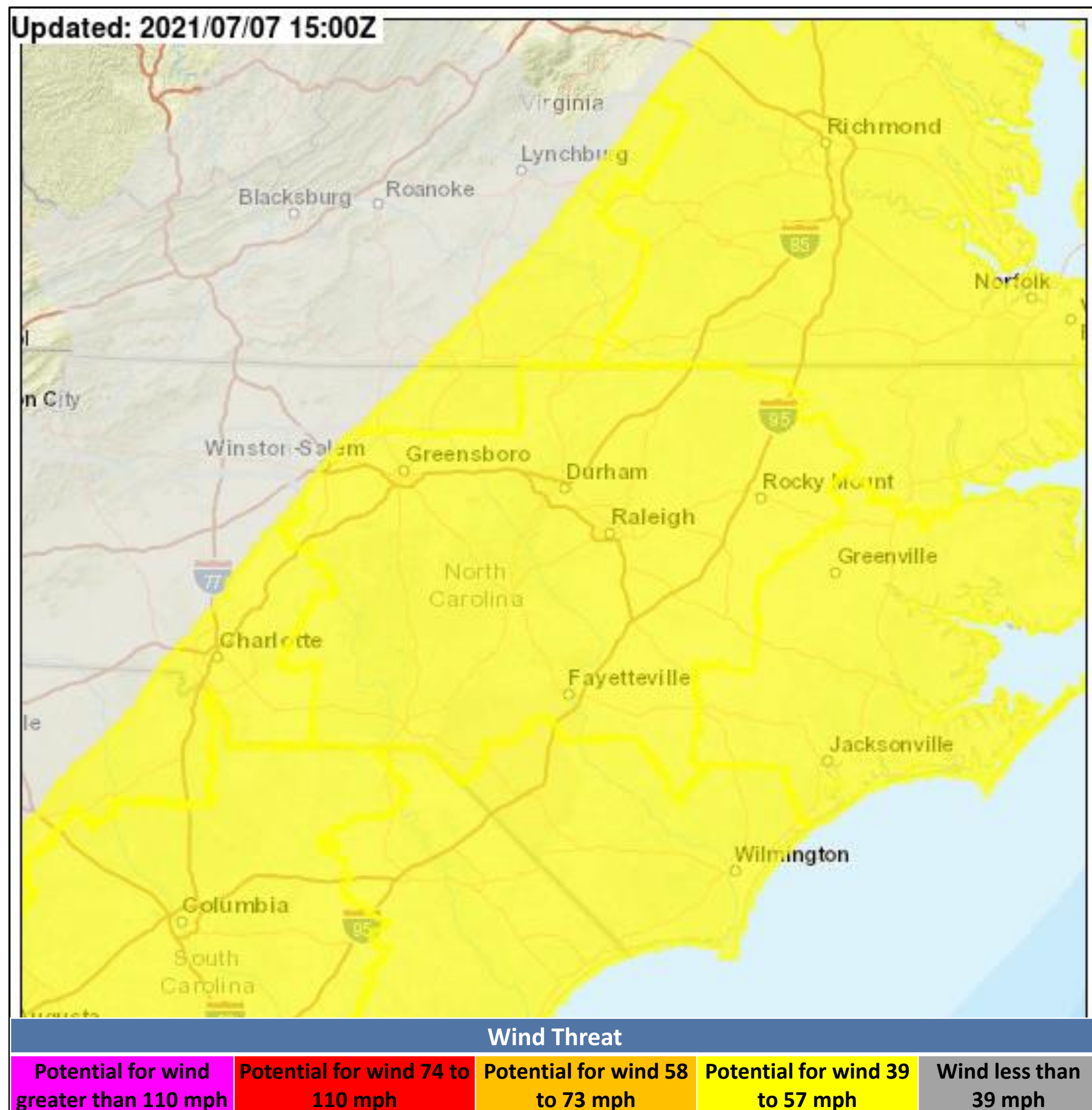
For information on specific hazards in this area, please go to <https://www.weather.gov/srh/tropical?office=rah>





# Wind Threat / Potential Impact

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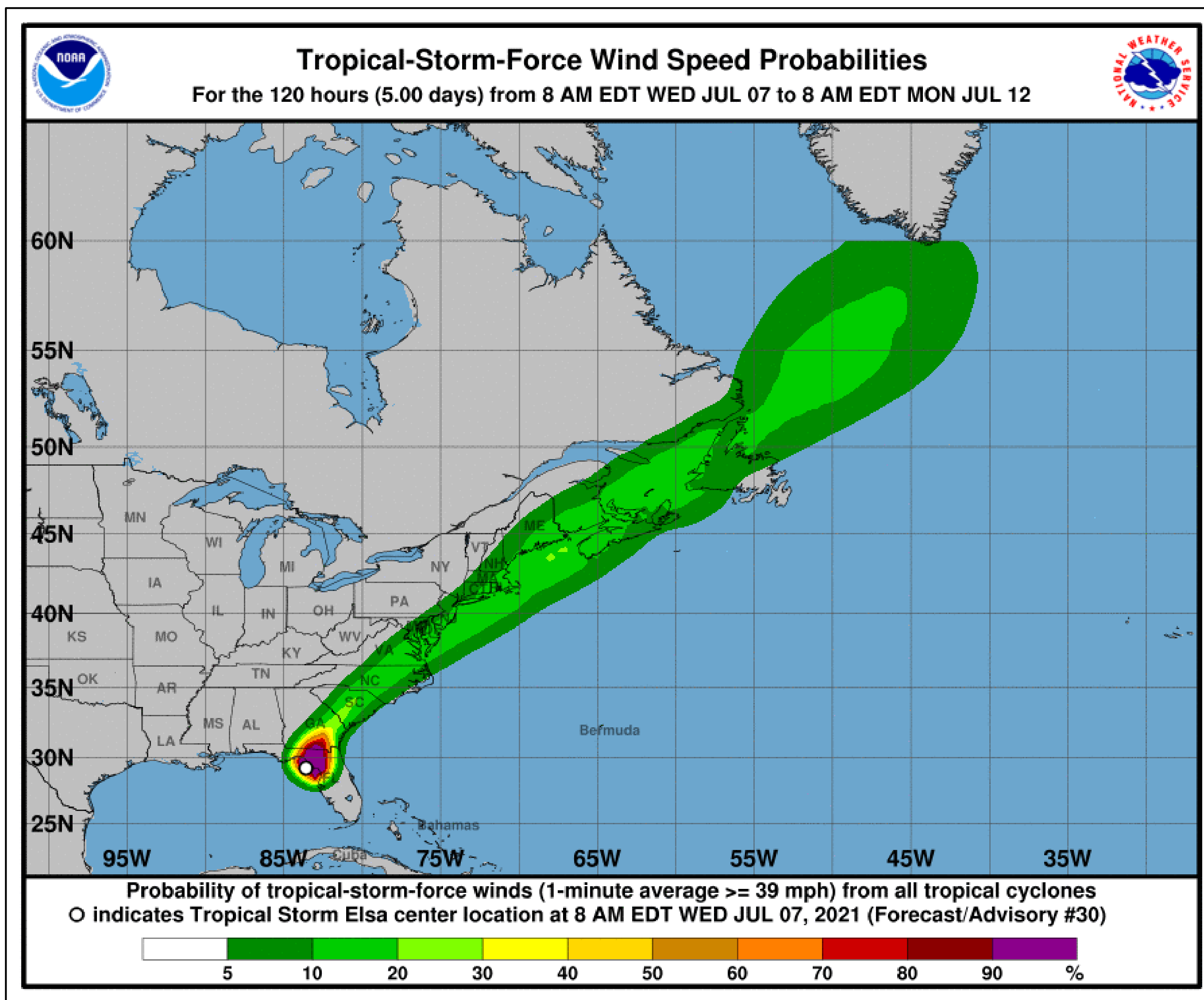
## Central NC Impacts:

- Wind impacts across central NC should be minimal.
- However, it will be briefly windy at times on Thursday, with gusts up to 40 mph.
- Highest wind gusts will be along the I-95 corridor counties.



# Tropical Storm Wind Speed Probabilities

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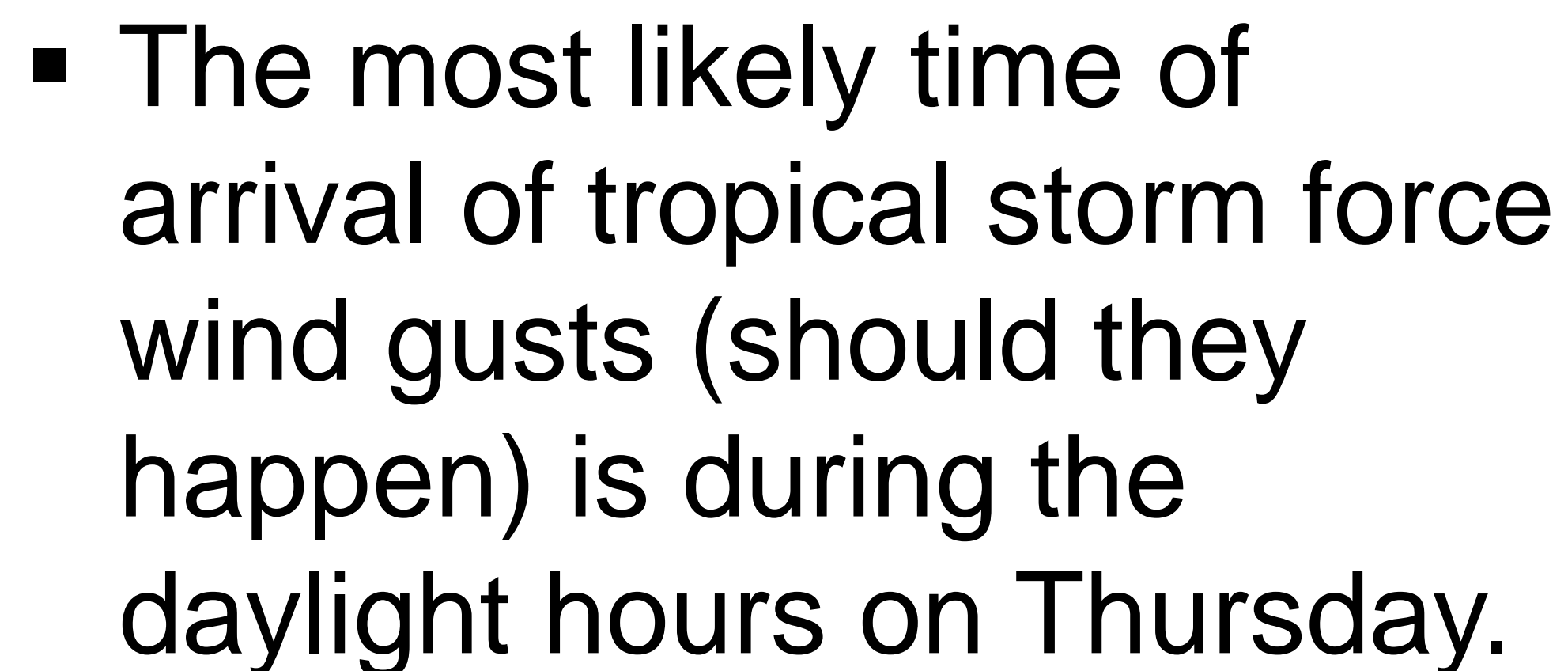


- There is a 1 in 3 chance that eastern NC could experience tropical storm force winds on Thursday.
- The most likely scenario is for any tropical storm force wind gusts to be along and east of the Interstate 95 corridor.





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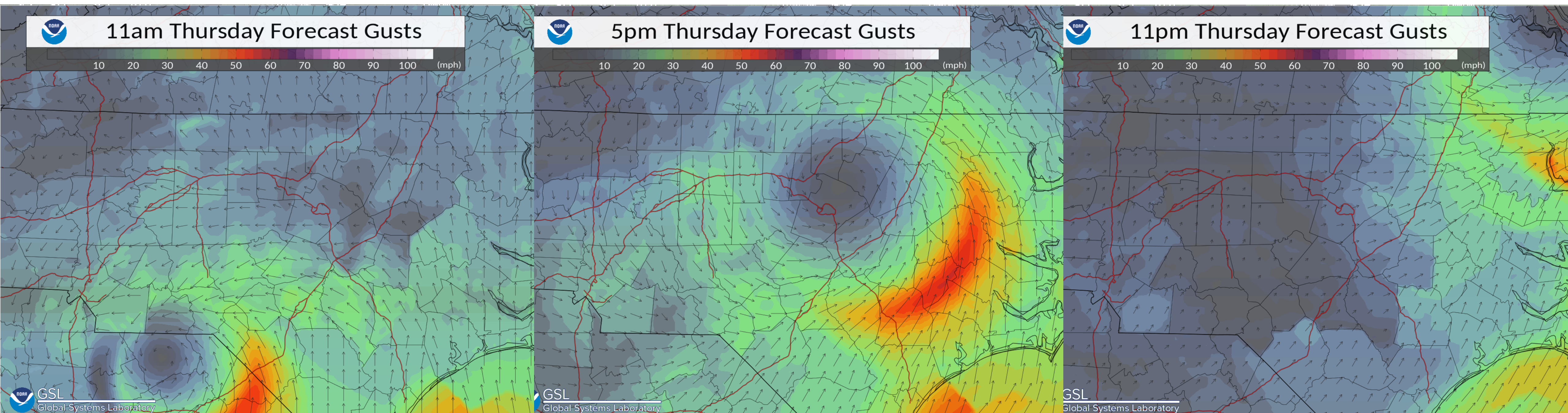






# Forecast wind gust simulations for estimating timing

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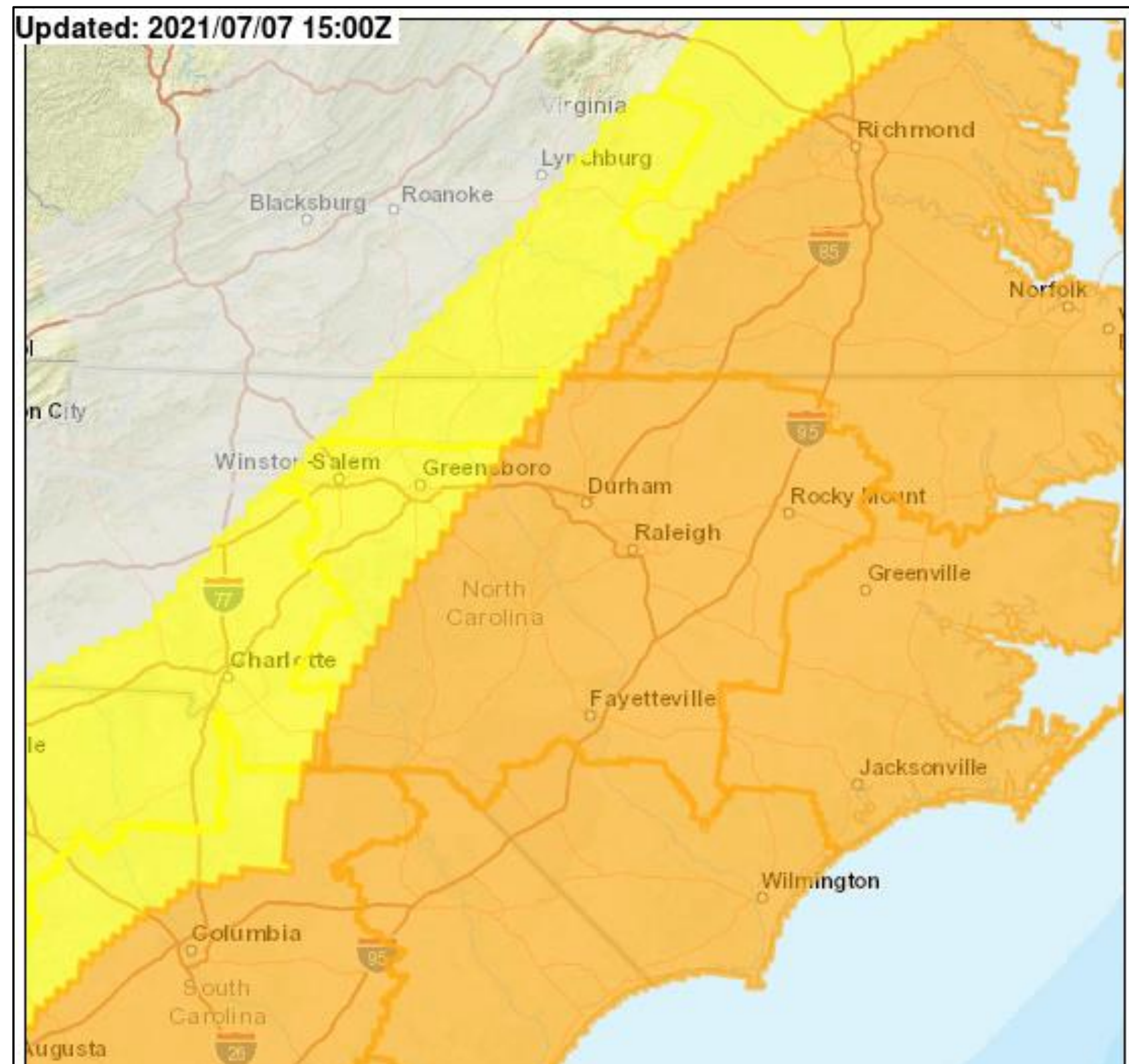
- Please note that the wind speeds shown above are forecast wind gusts, NOT sustained winds.
- Sustained winds are not expected to exceed 25 mph across central NC.
- Winds will begin to increase from south to north during the morning hours after sunrise.
- Wind gusts in excess of 30 mph (west of I-95) and in excess of 40 mph (east of I-95) are expected to peak during the afternoon hours.
- Winds will diminish over central NC, with the stronger winds exiting to our northeast, by 11 PM Thursday.





# Inland Flooding Impacts

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- The greatest potential for flash flooding is east of the Triad.

## Flooding Rain Threat

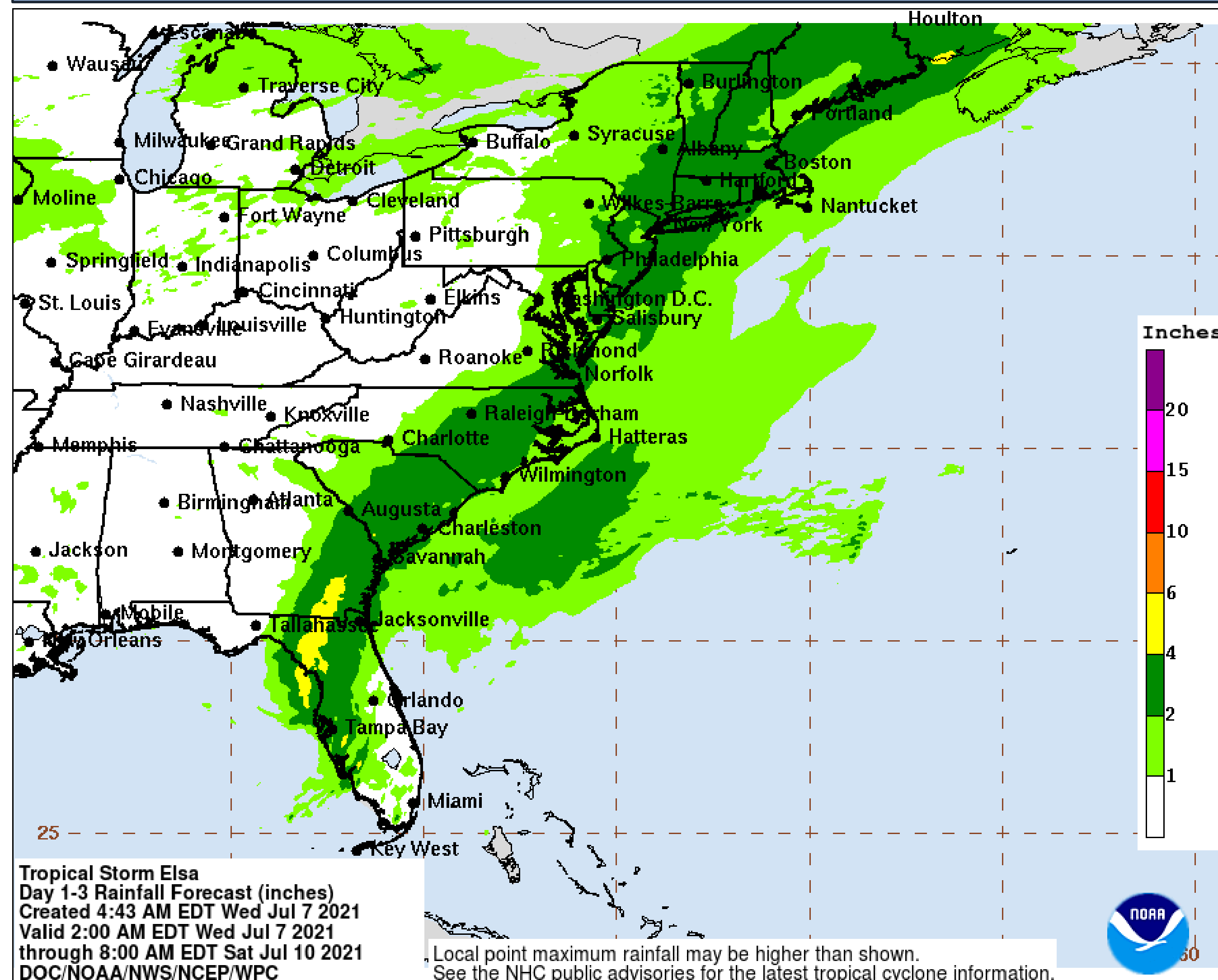
Potential for extreme flooding rain	Potential for major flooding rain	Potential for moderate flooding rain	Potential for localized flooding rain	Little to no potential for flooding rain
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# Expected Storm Total Rainfall

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**Note: There will likely be locally higher amounts**



## Central NC Impacts:

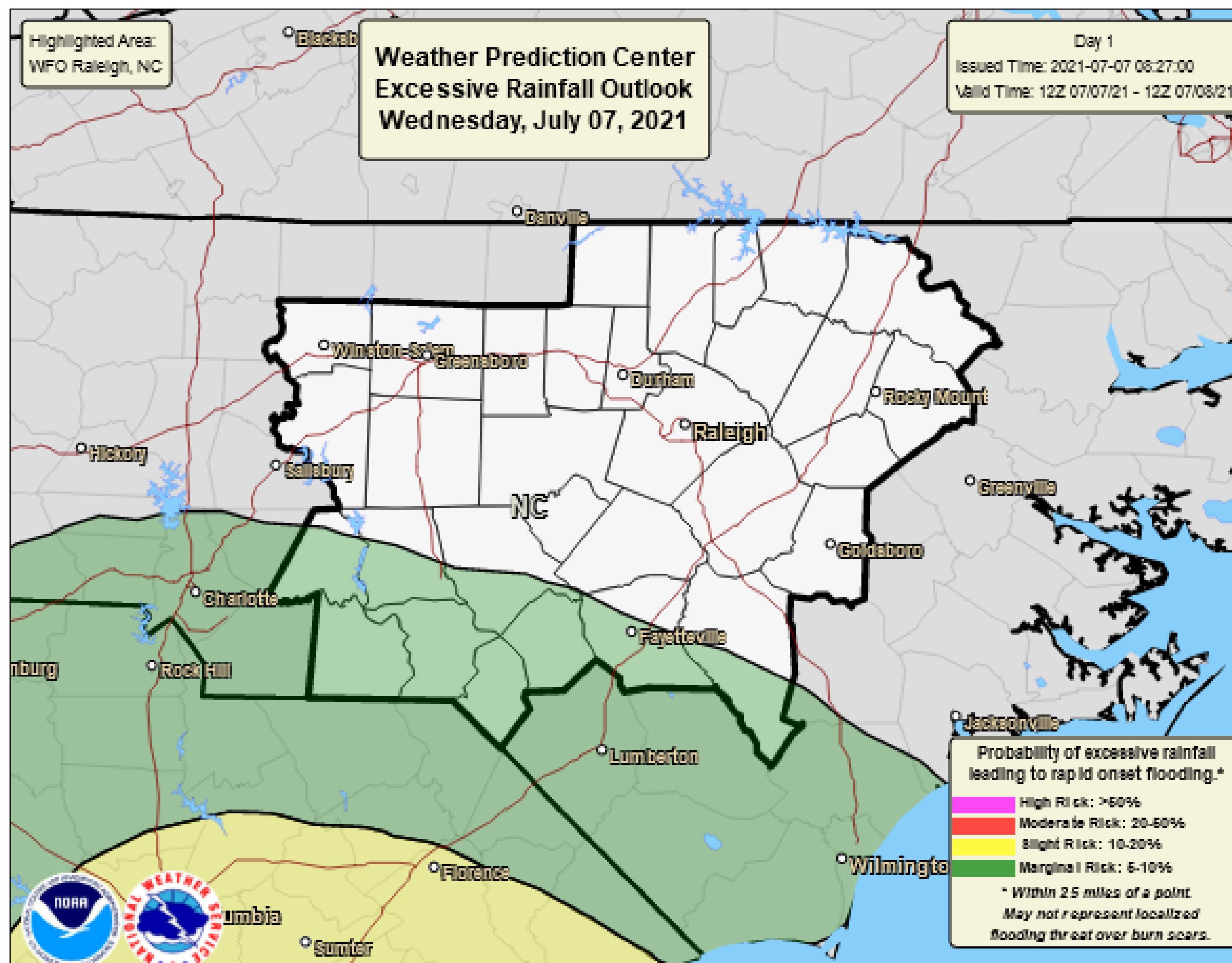
- Rainfall amounts have increased across NC.
- **However, models are trending westward with the western edge or western extent of the heavier rainfall.**
- Still expect 1-3 inches of rain across central NC from this evening through Thursday.





# Excessive Rainfall Outlook

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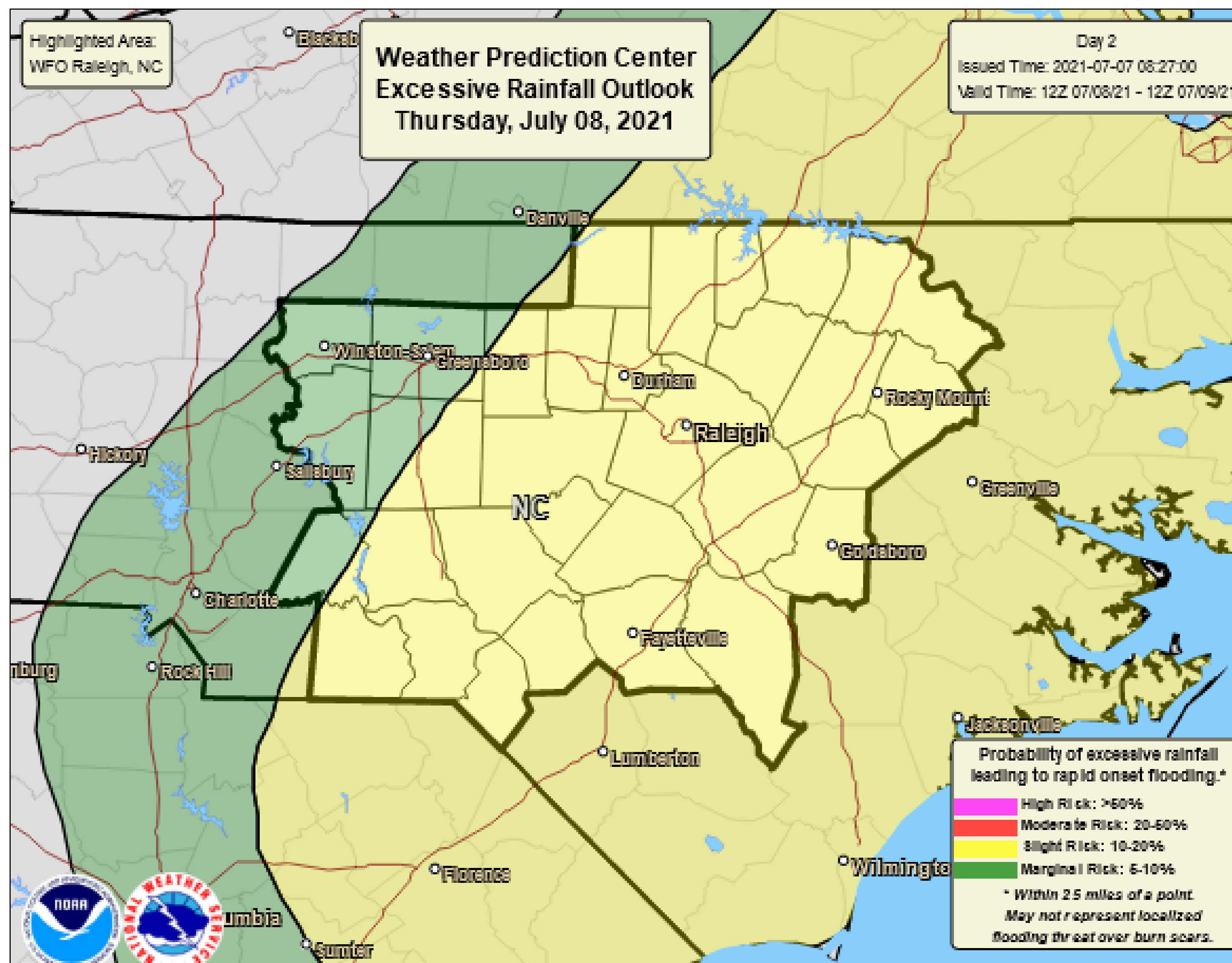
## Central NC Impacts:

- This graphic highlights the risk for flash flooding.
- Areas outlined in yellow will have the greatest potential for flash flooding tonight and Thursday.



# Excessive Rainfall Outlook

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## Central NC Impacts:

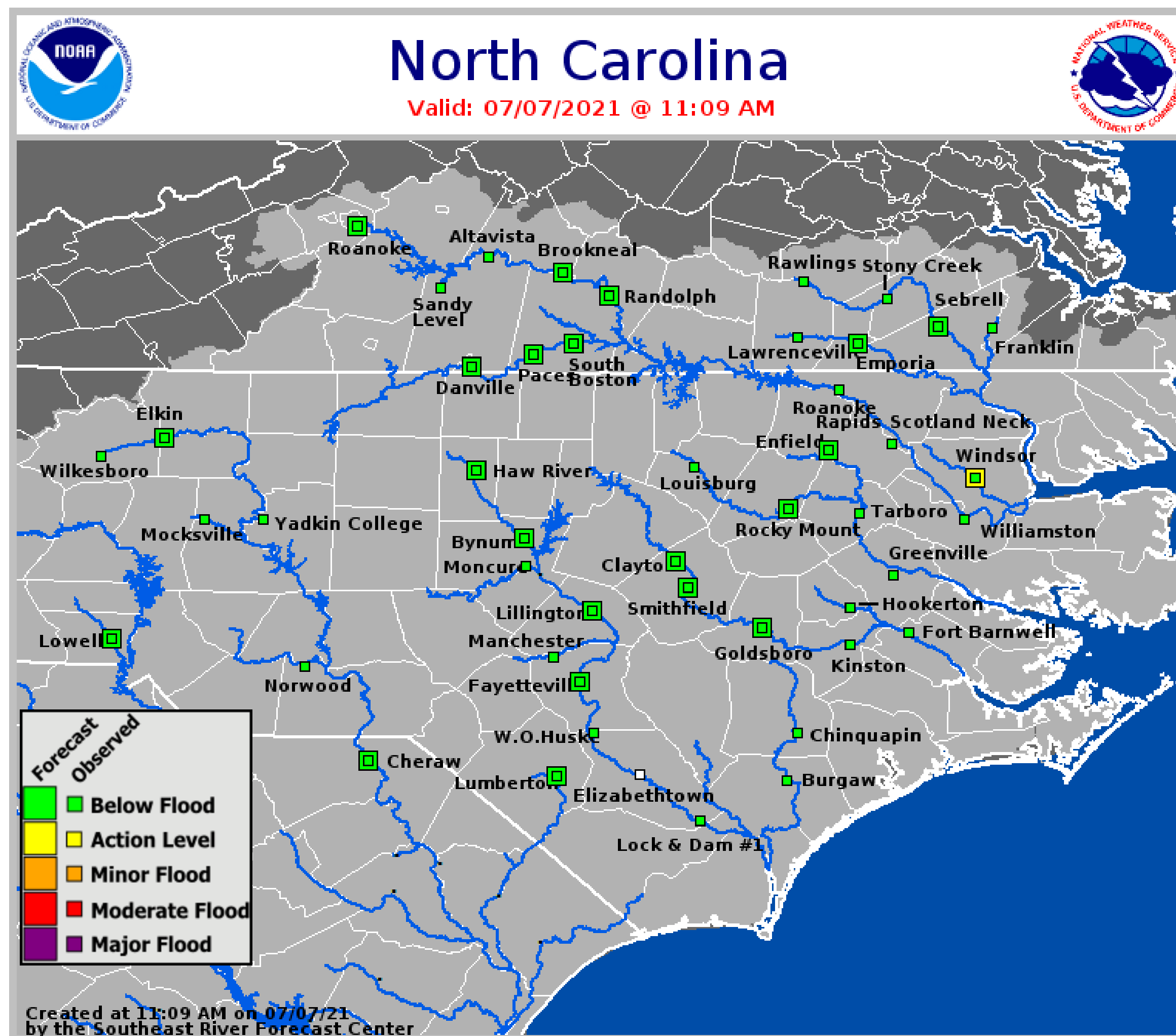
- This graphic highlights the risk for flash flooding.
- Areas outlined in yellow will have the greatest potential for flash flooding tonight and Thursday.





# Potential for River Flooding

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- River flooding is not occurring, and is not expected to occur with Elsa.

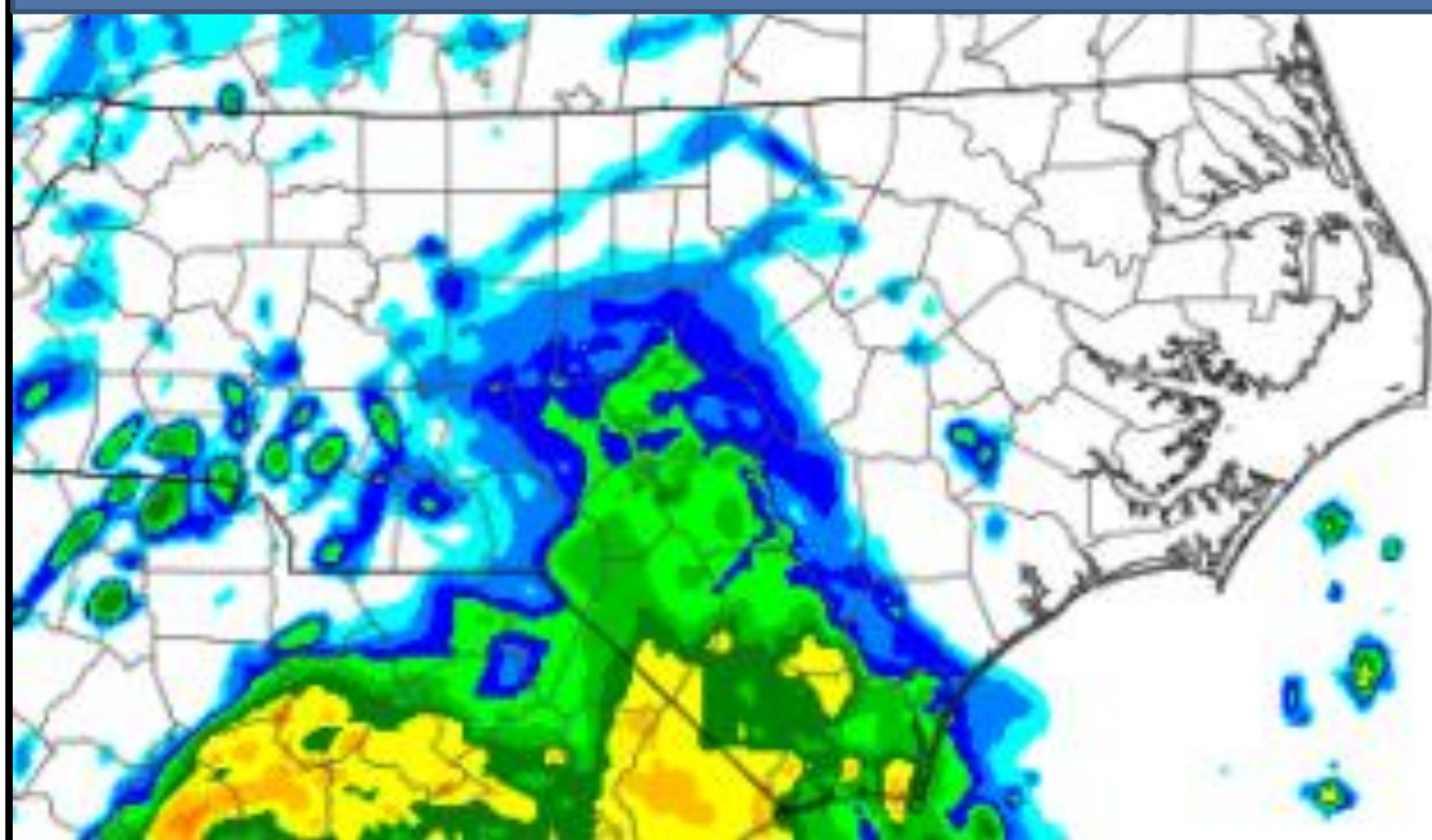




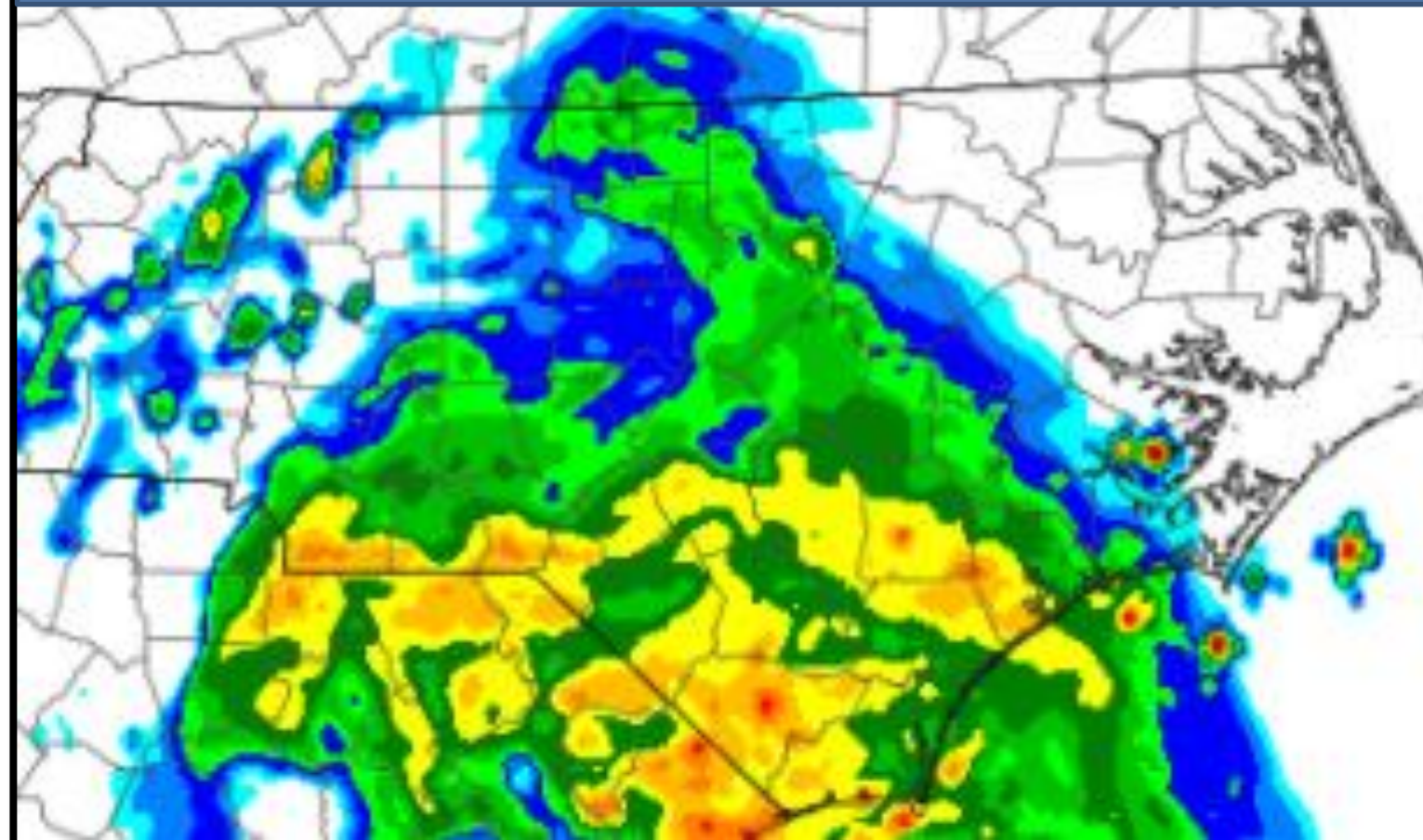
# Radar simulations for estimating rain timing

Elsa

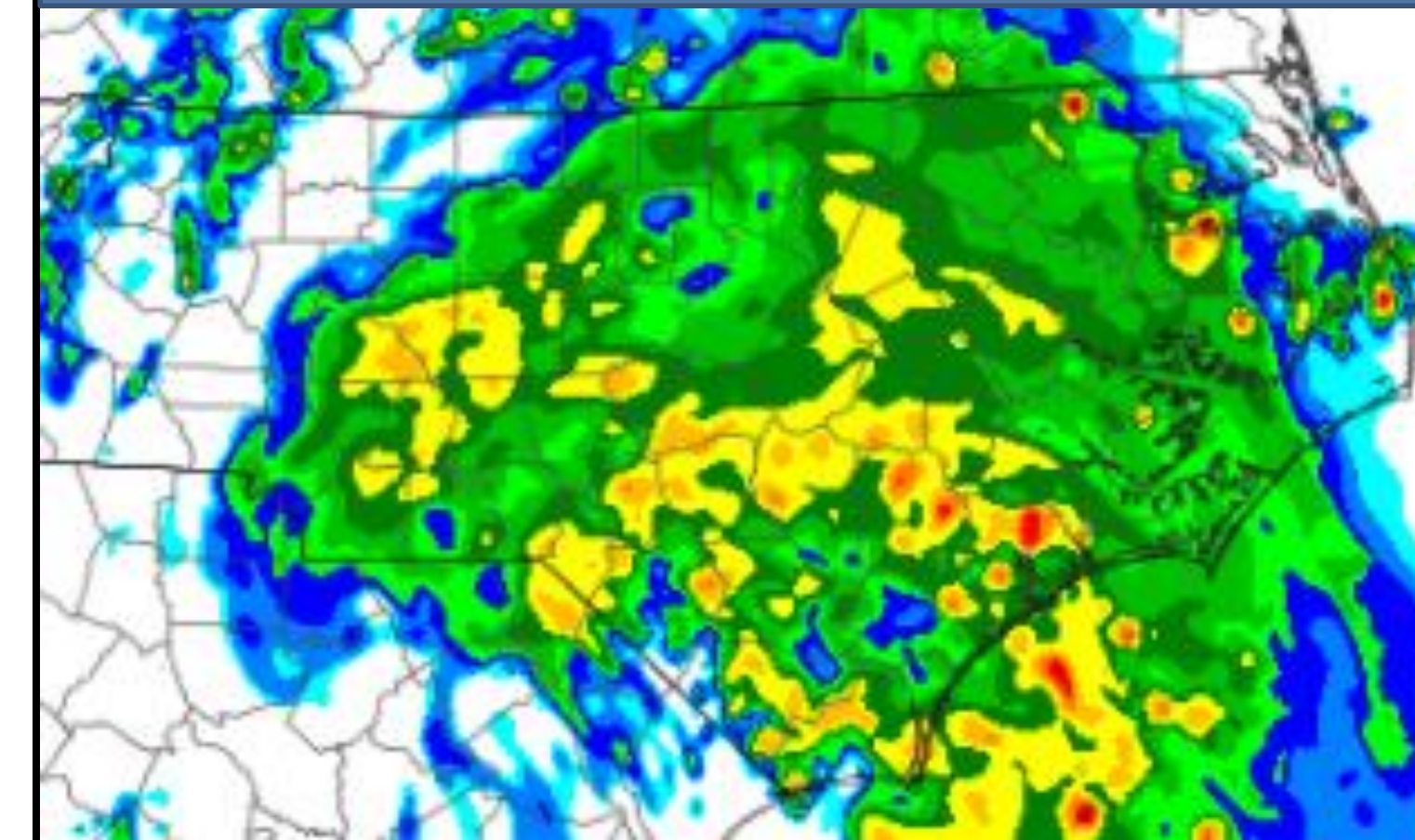
6 AM Thursday



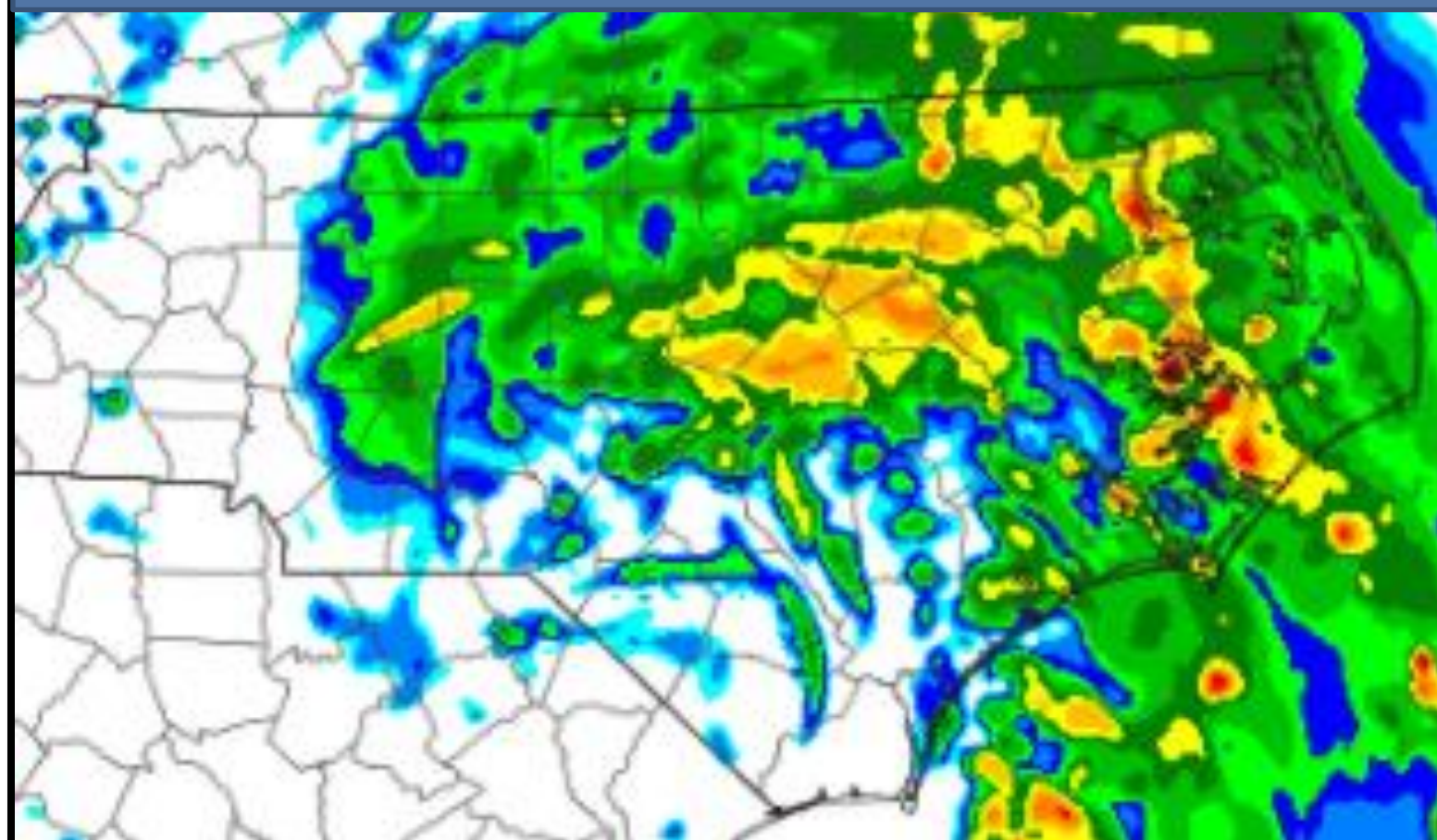
9 AM Thursday



Noon Thursday



3 PM Thursday



6 PM Thursday



9 PM Thursday

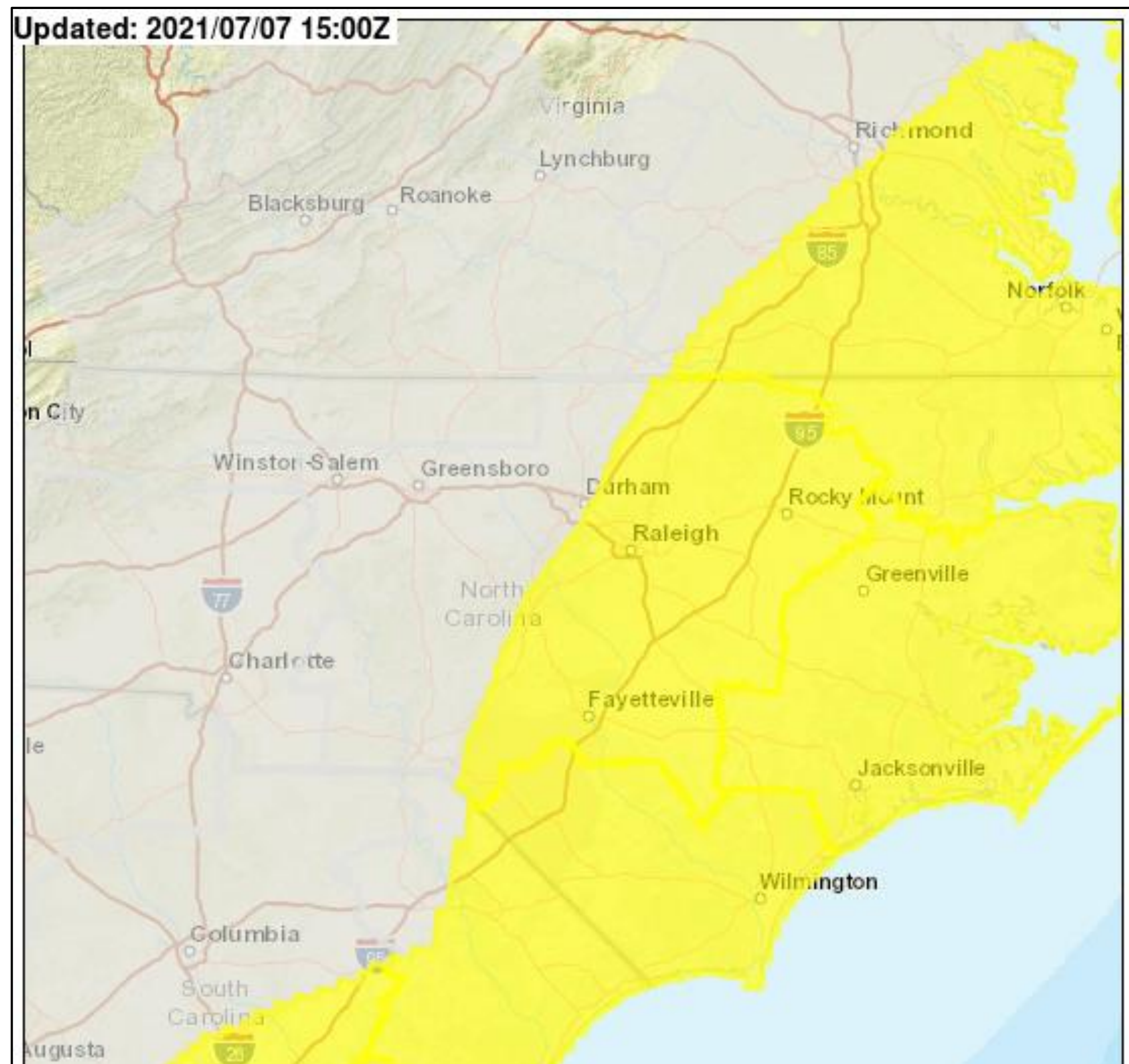






# Potential Tornado Impacts

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## Tornado Threat

Potential for outbreak of tornadoes	Potential for many tornadoes	Potential for several tornadoes	Potential for a few tornadoes	Tornadoes not expected
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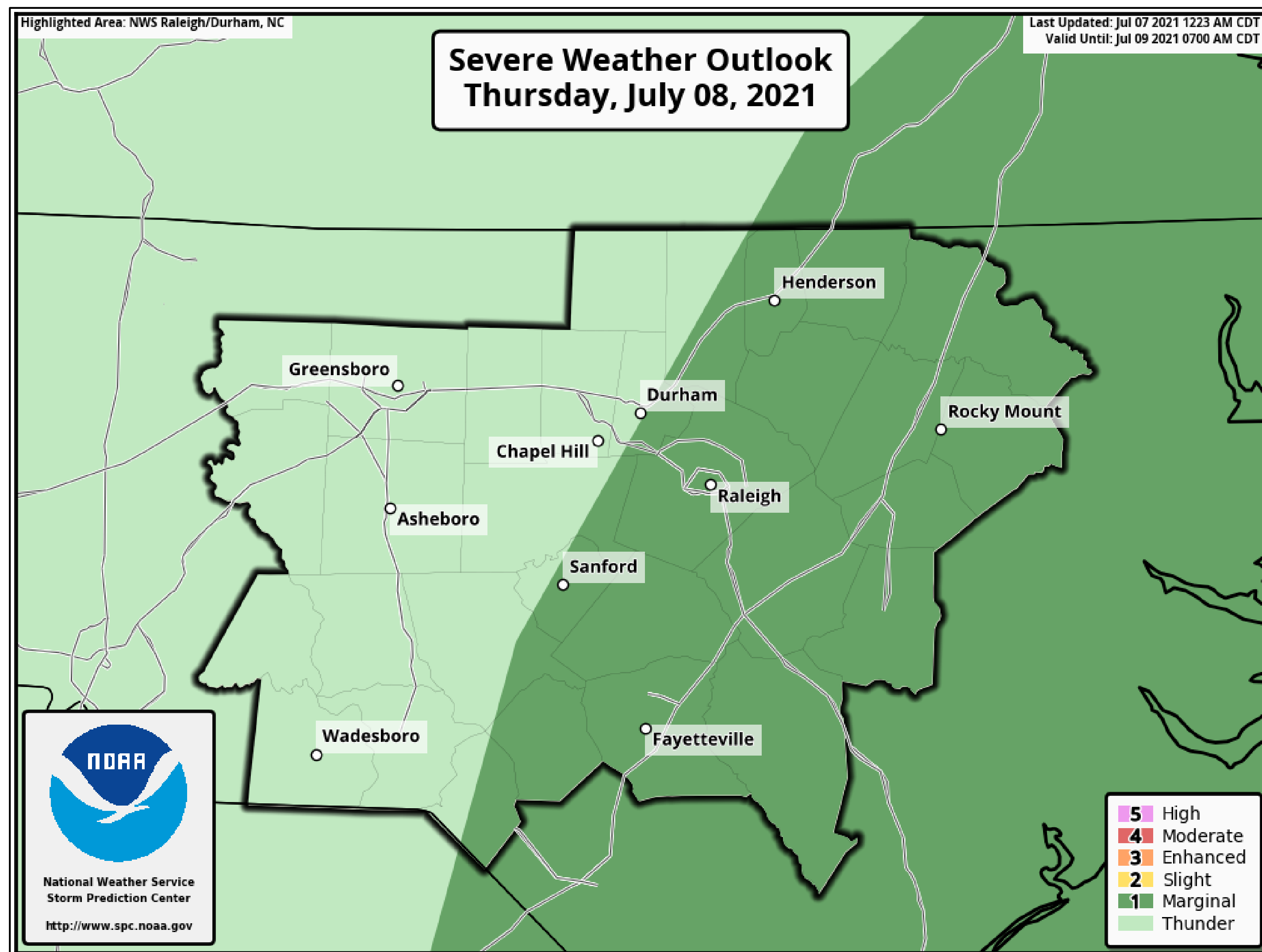
## Central NC Impacts:

- Main threat for tornadoes is along and east of the US-1 corridor tonight through Thursday, along and to the right of Elsa's track.



# Tornado Potential

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## Central NC Impacts:

- Main threat for tornadoes is along and east of the US-1 corridor on Thursday, along and to the right of Elsa's track.

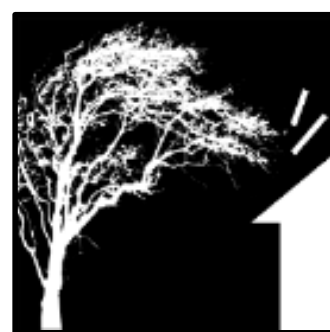




# Key Take-Aways

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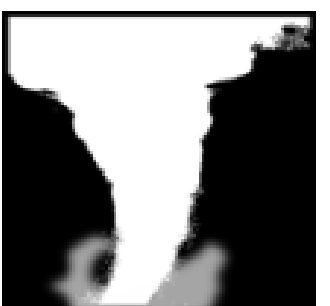
Confidence is HIGH that the event will occur  
Confidence is MODERATE regarding impacts



There is a minimal potential for damaging winds mainly along and east of US-1 on Thursday. However, wind gusts up to 40 mph are possible.



1-3 inches of rain (locally higher) could result in localized flash flooding Thursday. Highest rainfall amounts and greatest risk for flash flooding will be along and east of US-1. **However, models are trending westward with the western edge or western extent of the heavier rainfall.**



There is a small risk (level 1 of 5) for isolated tornadoes on Thursday, mainly along and east of US-1.



# Next Briefing: Wednesday 5:00 PM EDT Method: Email

**Web:** [weather.gov/raleigh](http://weather.gov/raleigh)

**Phone:** (919) 326-1042

**E-mail:** [nws.raleigh@noaa.gov](mailto:nws.raleigh@noaa.gov)

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