



ELSA BRIEFING

11:30 AM EDT

Wednesday, July 7, 2021

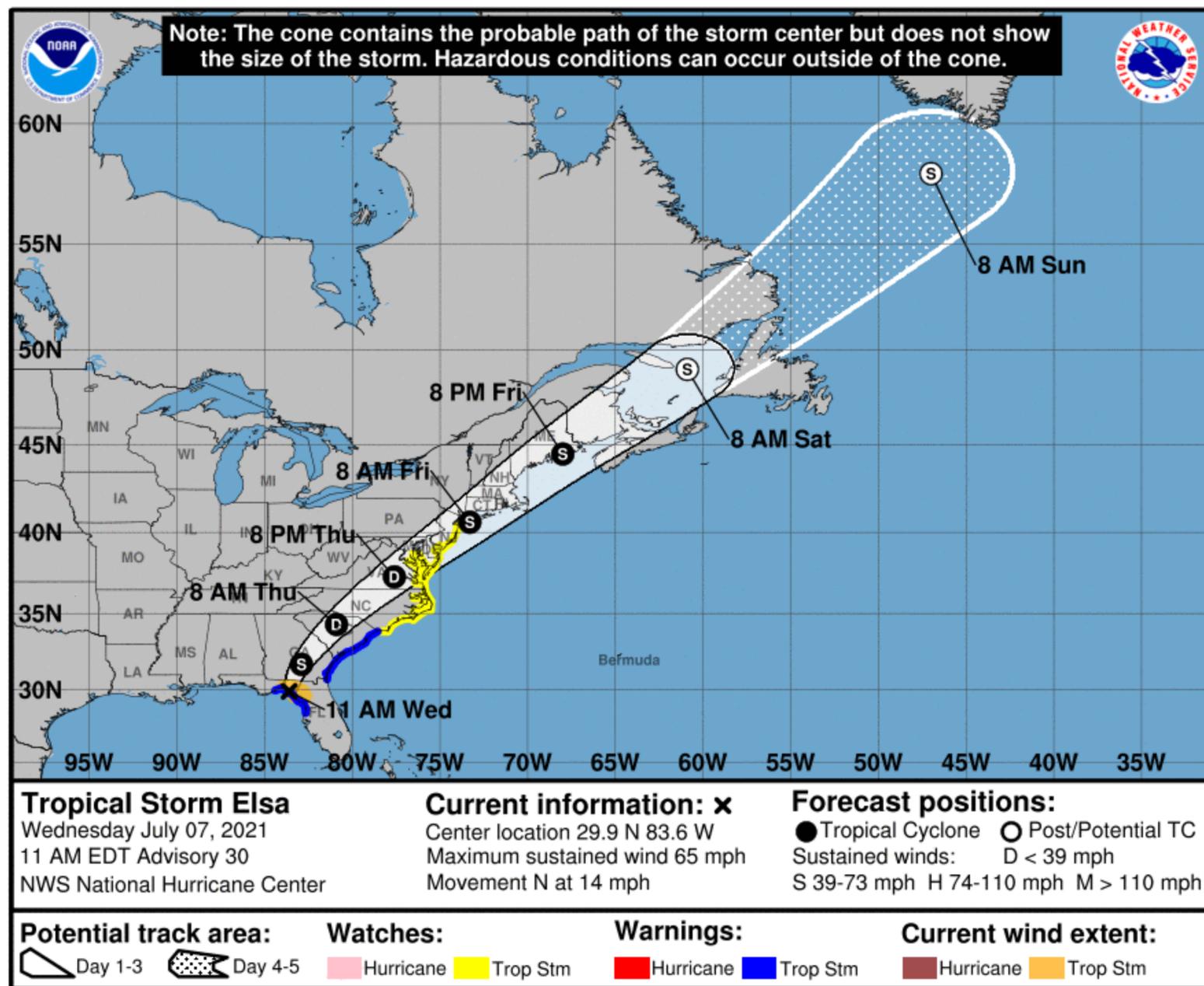
What has changed: swath of heavier rain shifting westward
Next Briefing: Wednesday, July 7, at 5:00 PM EDT

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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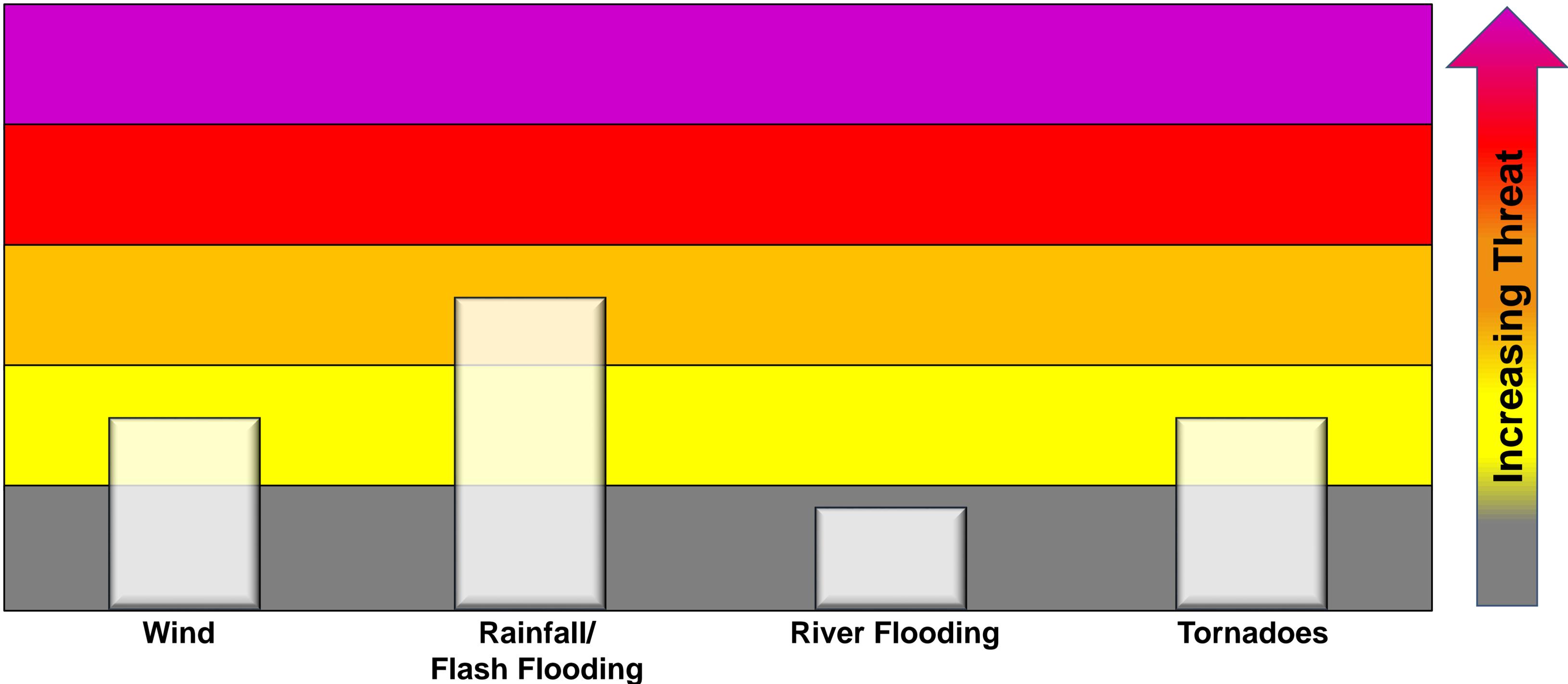
Hazard	Impacts	Location	Timing
 <p data-bbox="493 639 613 686">Wind</p>	<p data-bbox="676 555 1639 776">There is a minimal potential for damaging winds across parts of central NC. However, wind gusts up to 40 mph are possible.</p>	<p data-bbox="1709 611 2568 714">Highest wind gusts along and east of US-1</p>	<p data-bbox="2835 639 3052 686">Thursday</p>
 <p data-bbox="409 996 613 1099">Flooding Rain</p>	<p data-bbox="703 968 1612 1133">1-3 inches of rain (with isolated higher amounts) could result in localized flash flooding.</p>	<p data-bbox="1709 911 2568 1189">Heaviest rain and flooding threat expected along and east of US-1. However, models are trending westward with the western edge or western extent of the heavier rainfall.</p>	<p data-bbox="2835 1024 3052 1071">Thursday</p>
 <p data-bbox="419 1408 613 1455">Tornado</p>	<p data-bbox="736 1380 1579 1483">There is a small risk (level 1 of 5) for isolated tornadoes.</p>	<p data-bbox="1759 1408 2518 1455">Eastern NC (mainly east of US-1)</p>	<p data-bbox="2835 1408 3052 1455">Thursday</p>



Threat Levels

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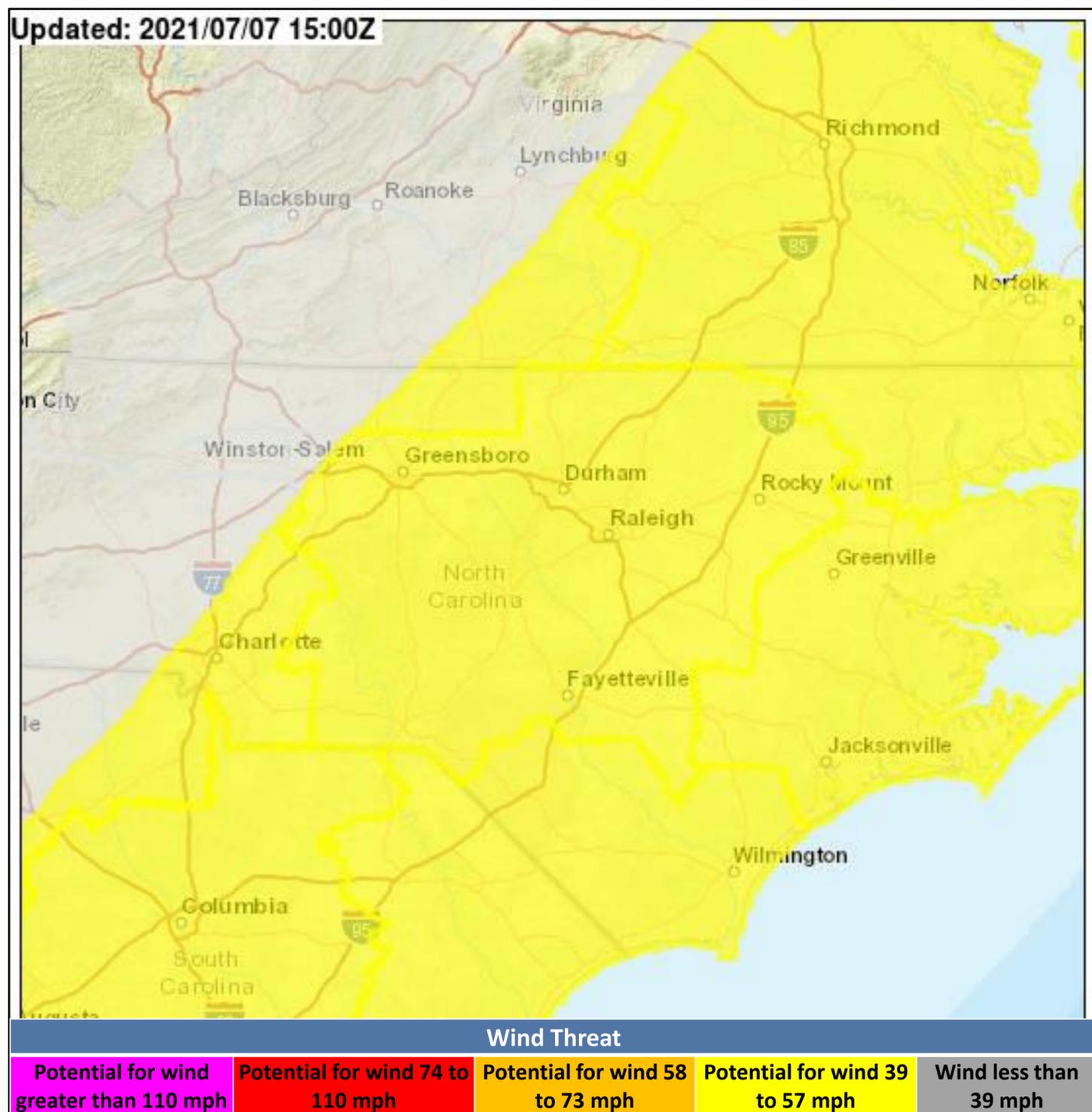
For information on specific hazards in this area, please go to <https://www.weather.gov/srh/tropical?office=rah>





Wind Threat / Potential Impact

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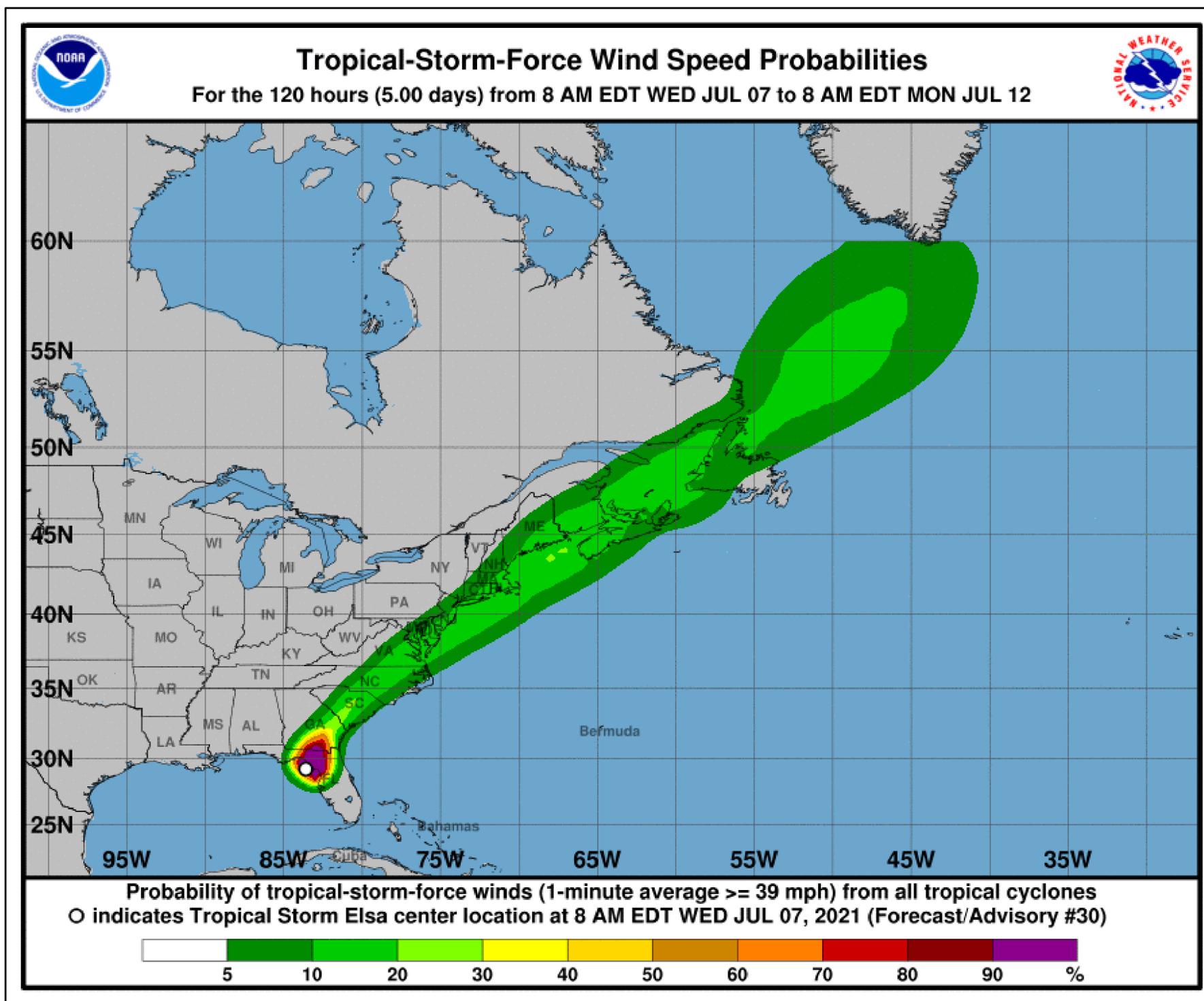
Central NC Impacts:

- 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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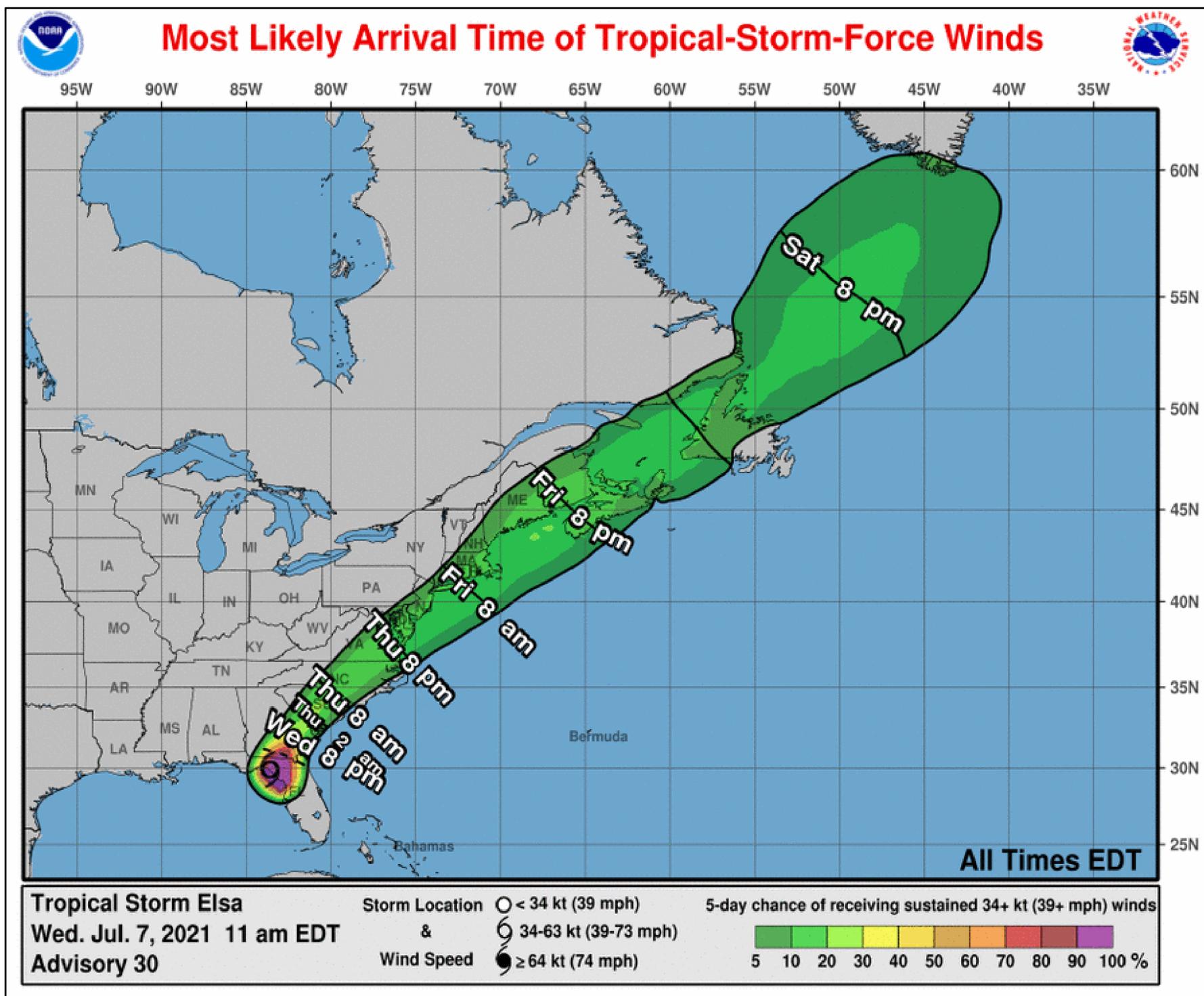


- There is a 1 in 3 chance that eastern NC could experience tropical storm force winds on Thursday.
- The most likely scenario is for any tropical storm force wind gusts to be along and east of the Interstate 95 corridor.



Most Likely Time of Arrival

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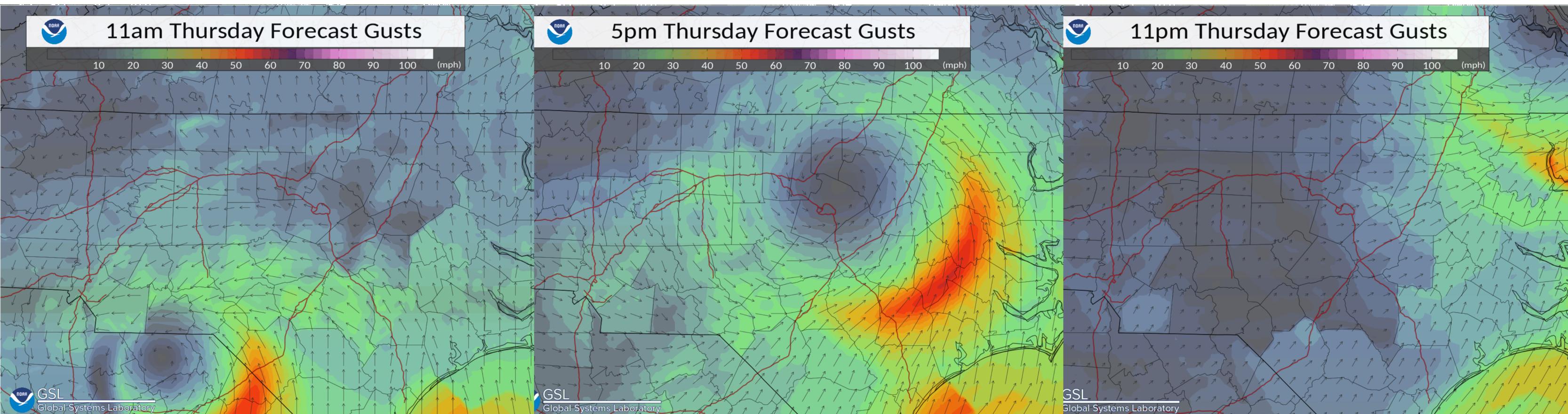


- The most likely time of arrival of tropical storm force wind gusts (should they happen) is during the daylight hours on Thursday.



Forecast wind gust simulations for estimating timing

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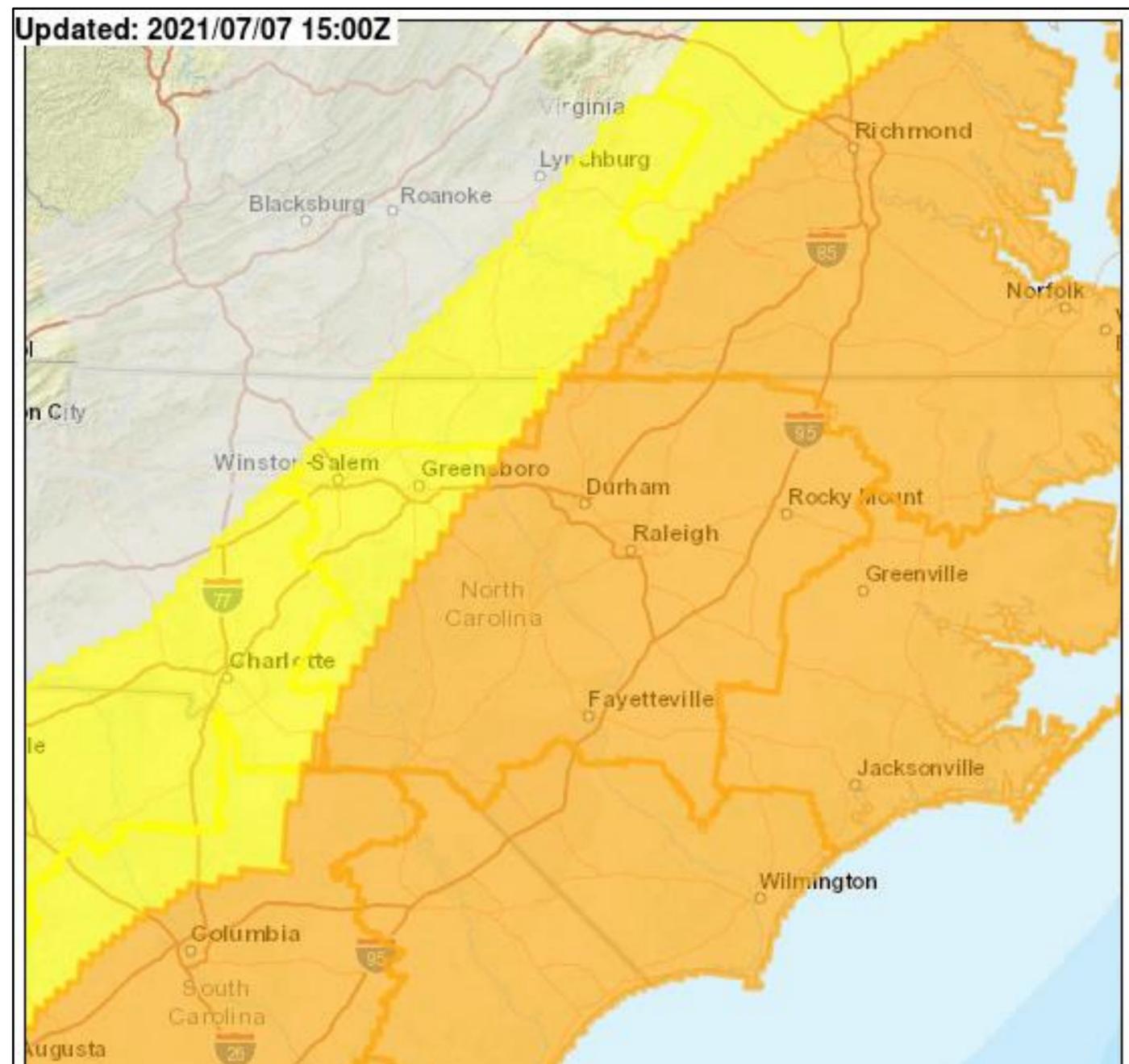


- Please note that the wind speeds shown above are forecast wind gusts, NOT sustained winds.
- Sustained winds are not expected to exceed 25 mph across central NC.
- Winds will begin to increase from south to north during the morning hours after sunrise.
- Wind gusts in excess of 30 mph (west of I-95) 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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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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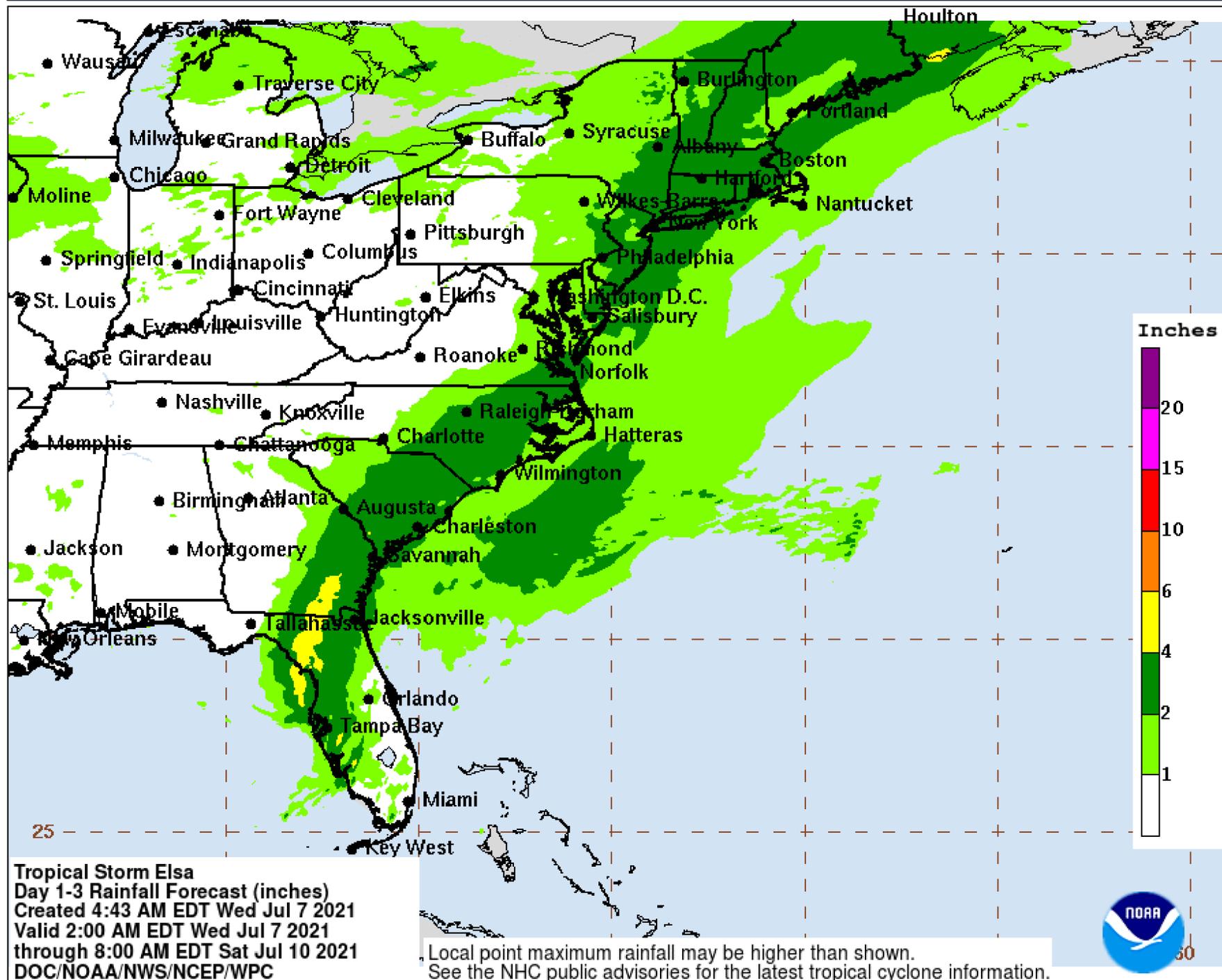
- The greatest potential for flash flooding is east of the Triad.



Expected Storm Total Rainfall

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Note: There will likely be locally higher amounts



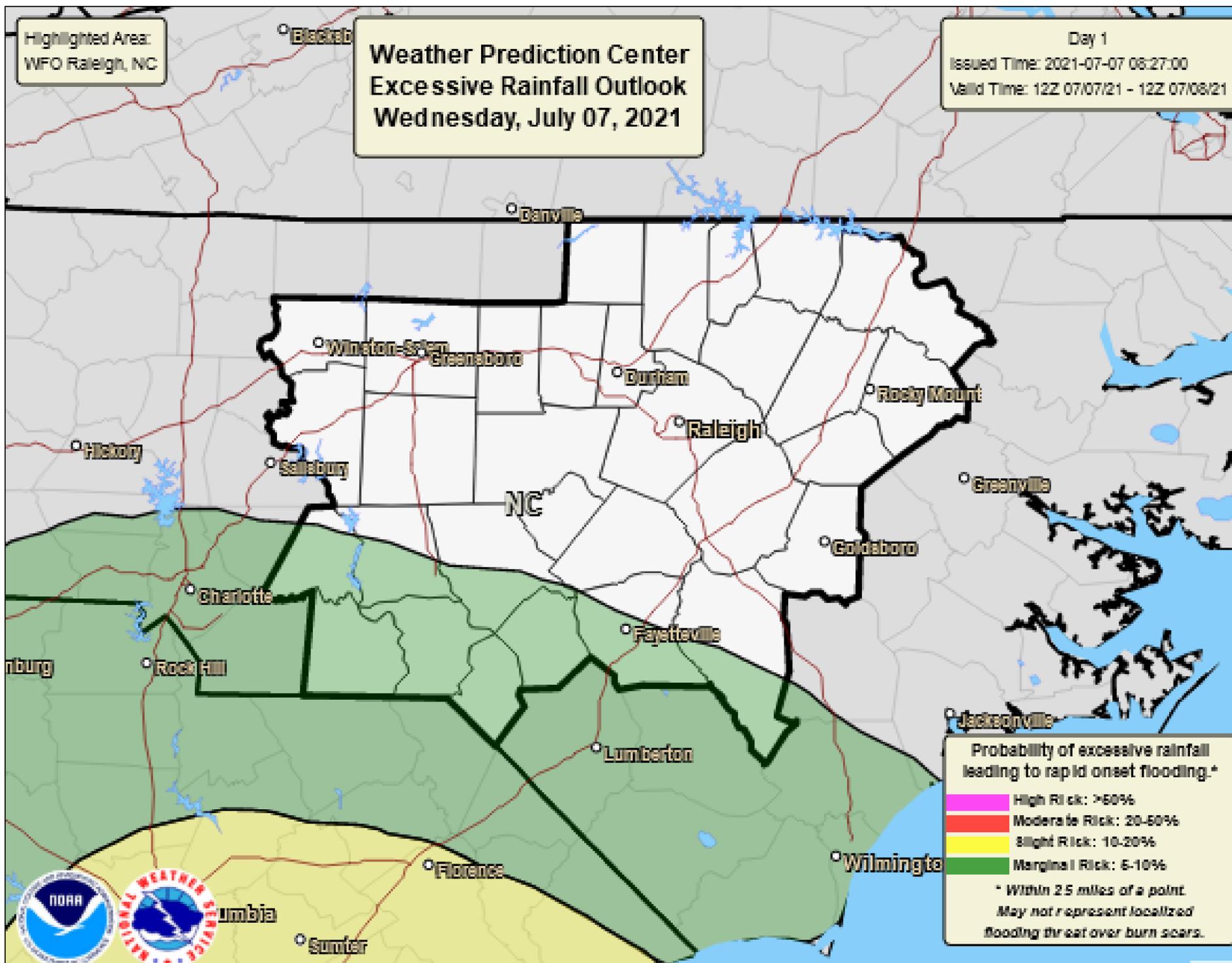
Central NC Impacts:

- 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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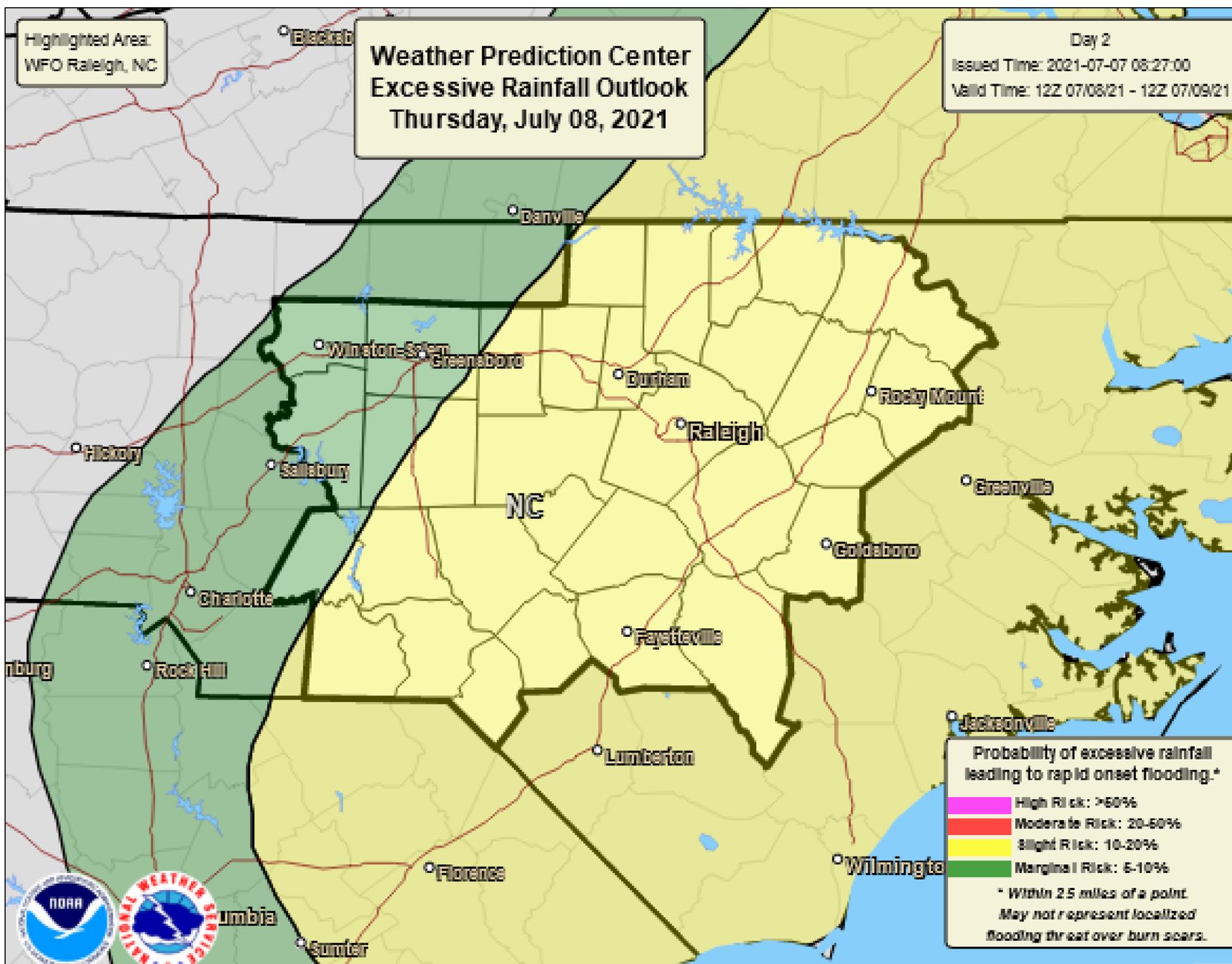
Central NC Impacts:

- 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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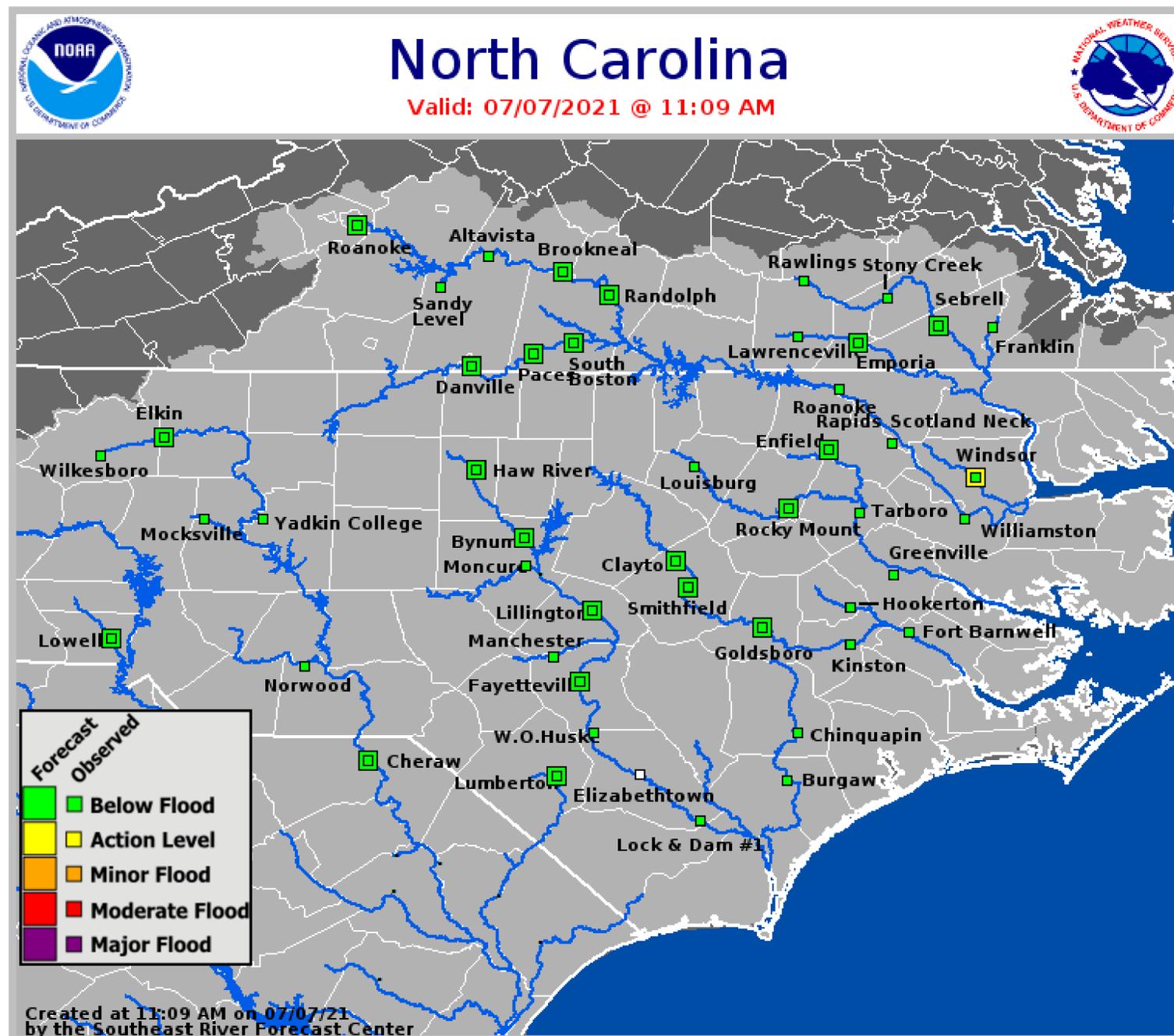
Central NC Impacts:

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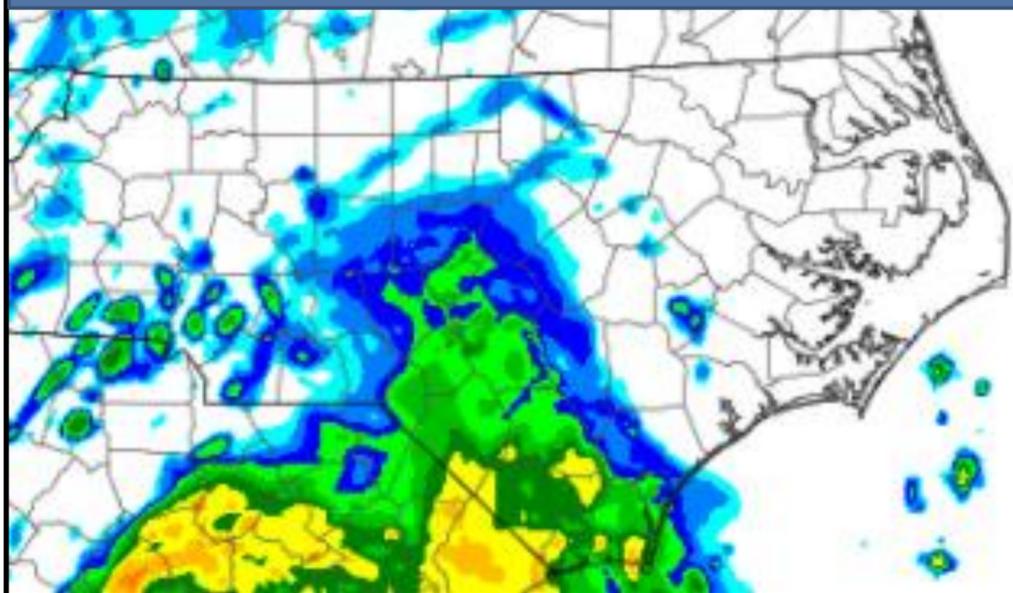
- River flooding is not occurring, and is not expected to occur with Elsa.



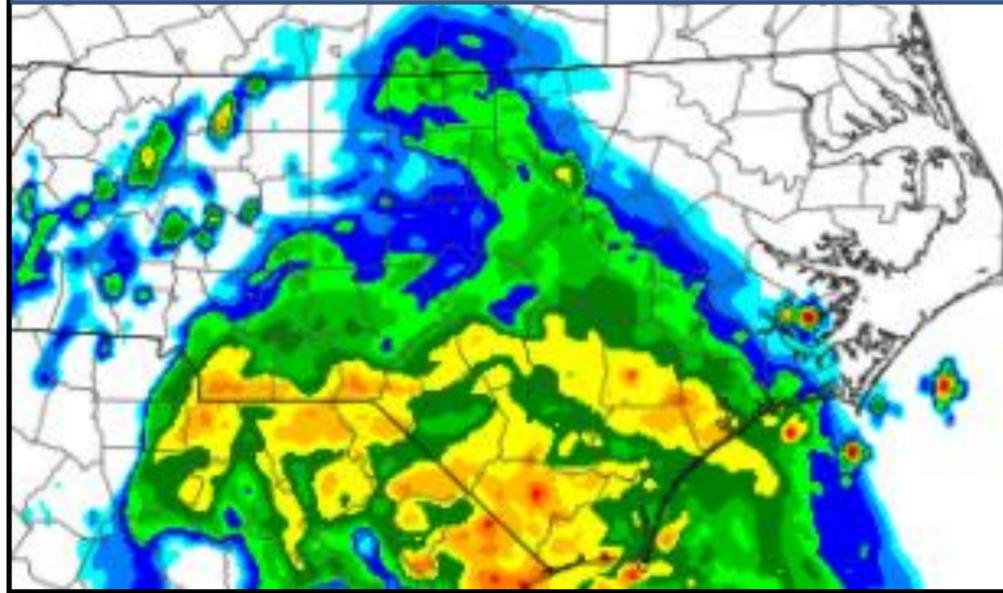
Radar simulations for estimating rain timing

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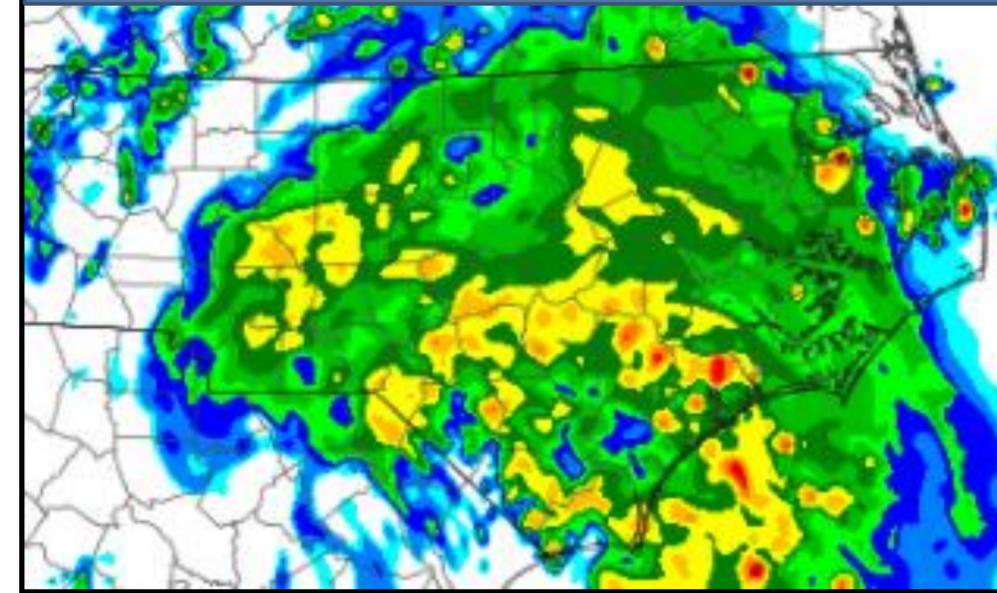
6 AM Thursday



9 AM Thursday



Noon Thursday



3 PM Thursday



6 PM Thursday



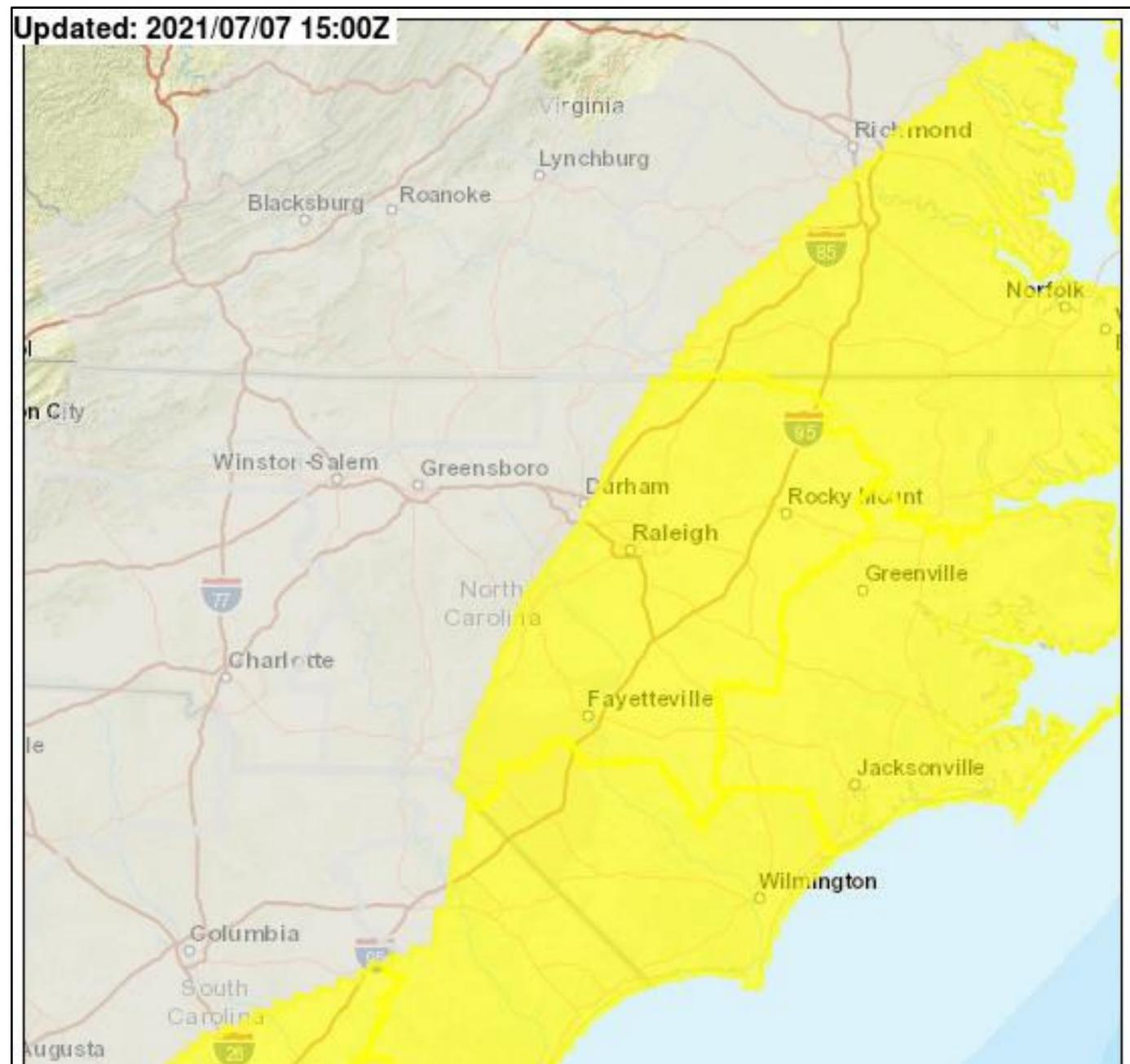
9 PM Thursday





Potential Tornado Impacts

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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.

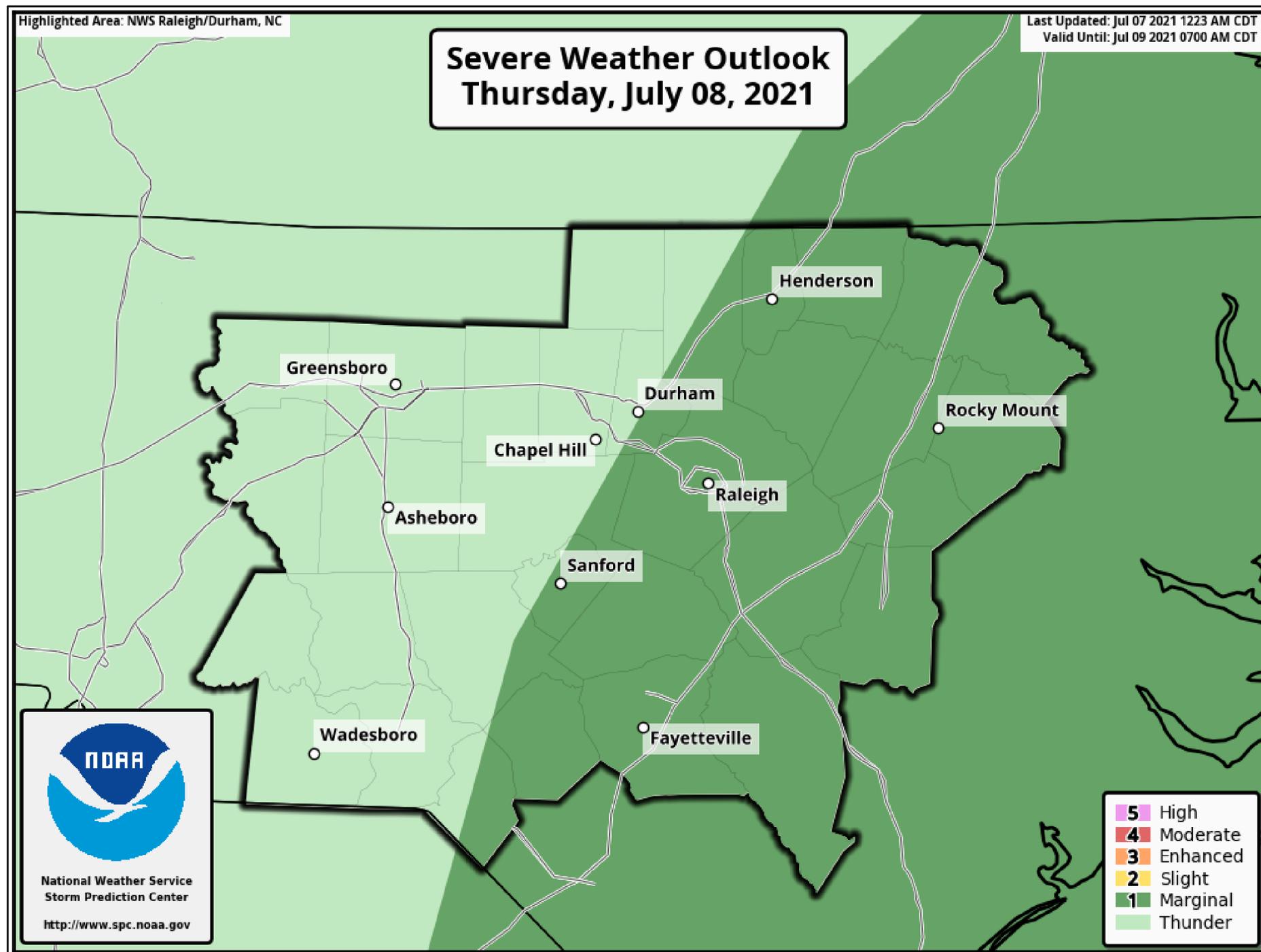
Tornado Threat

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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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

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

 **E-mail:** nws.raleigh@noaa.gov

 **Facebook:** [NWSRaleigh](https://www.facebook.com/NWSRaleigh)

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For the latest graphics and information go to: www.hurricanes.gov or weather.gov/rah/tropical