



Hurricane Ian Briefing

For northeast South Carolina and southeast North Carolina

7:00 AM EDT

Friday September 30, 2022

What has changed: The track has shifted slightly, rainfall graphic updated, and some adjustments were made to the threat graphics

Next Briefing: Friday September 30th at 1:30 PM EDT

Disclaimer: The information contained within is time-sensitive. Do not use after 11 AM EDT September 30th.



Situation Overview




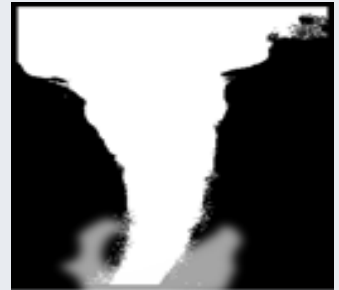

Ian

- Ian will continue to track toward the Carolinas and the storm will bring a variety of impacts to the area today and tonight. Ian is forecast to make landfall along the SC coast as a hurricane (Category 1) later today.
- In spite of the storm's category dangerous storm surge is expected across coastal areas of northeast SC, especially around high tide today. Surge will also impact Brunswick County, as well as coastal areas north of Cape Fear.
- Additionally, strong wind gusts and impacts will increase today, especially across northeast SC. Heavy rainfall could cause flash flooding and the threat for a few tornadoes will increase later this morning through the evening.



Situation Overview

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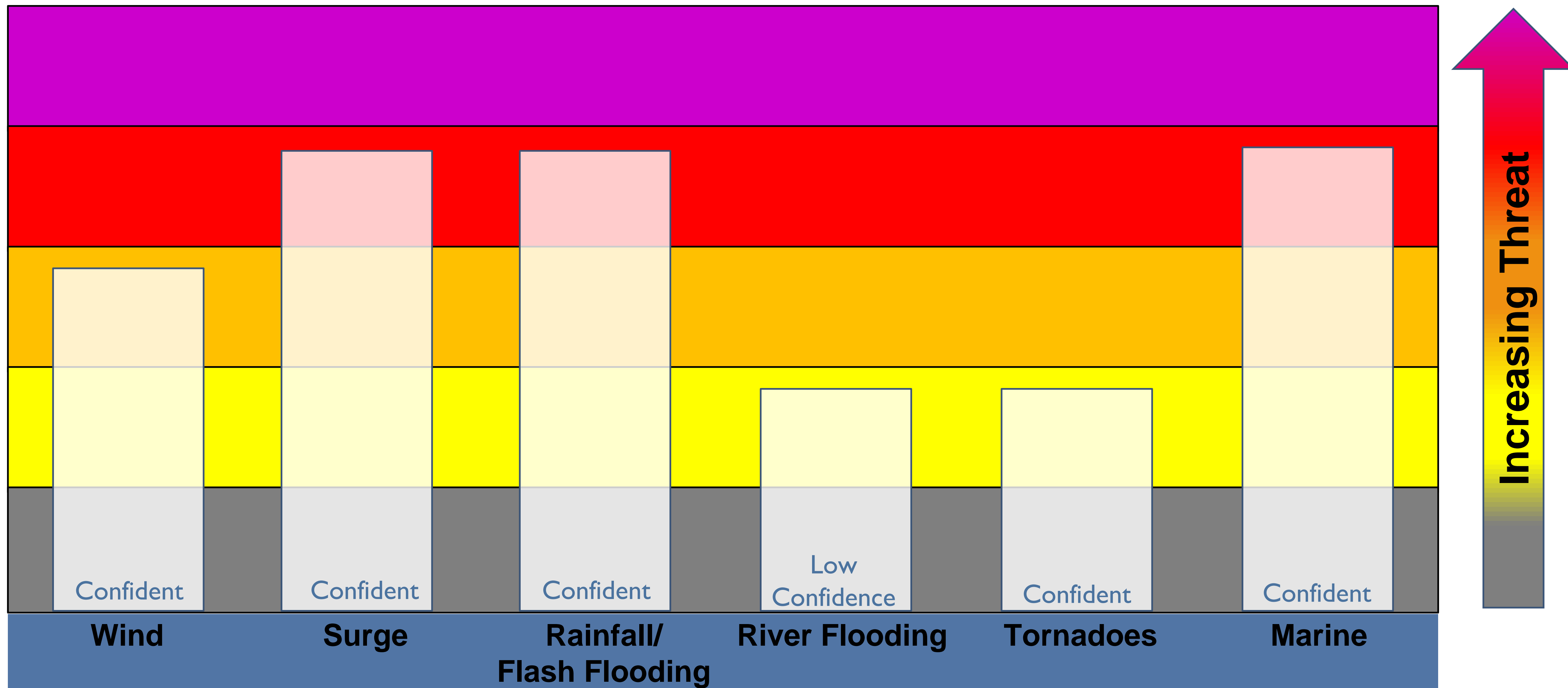
Hazard	Impacts	Location	Timing
 Wind	Downed trees and power outages are expected in northeast SC, with damage more isolated in southeast NC.	The strongest gusts are expected across portions of northeast SC. Lesser impacts across southeast NC.	Strongest winds today and tonight
 Storm Surge/ Inundation	Surge inundation is expected along with beach erosion, and high surf (dangerous inundation of 4-7 ft from Little River south , 3-5 ft Little River to Cape Fear, and 2-4 ft north of Cape Fear including the Cape Fear River and low-lying coastal areas)	Along the coast from southeast NC to northeast SC	For coastal flooding/erosion with each high tide through tonight – highest levels with each high tide today (high surf conditions through Fri Night)
 Flooding Rain	Heavy rainfall is expected which could lead to flash flooding, widespread 4 to 6 inches with some areas of 6 to 8 inches also possible	Anywhere across southeast NC and northeast SC, highest amounts across portions of northeast SC.	Heaviest amounts today and tonight, drying during Saturday
 Tornado	There is the potential for a few tornadoes	Anywhere across southeast NC and northeast SC	Especially from this morning through this evening
 Marine	Hazardous maritime conditions are expected	All adjacent coastal waters	Today through Saturday



Impact Outlook and Confidence

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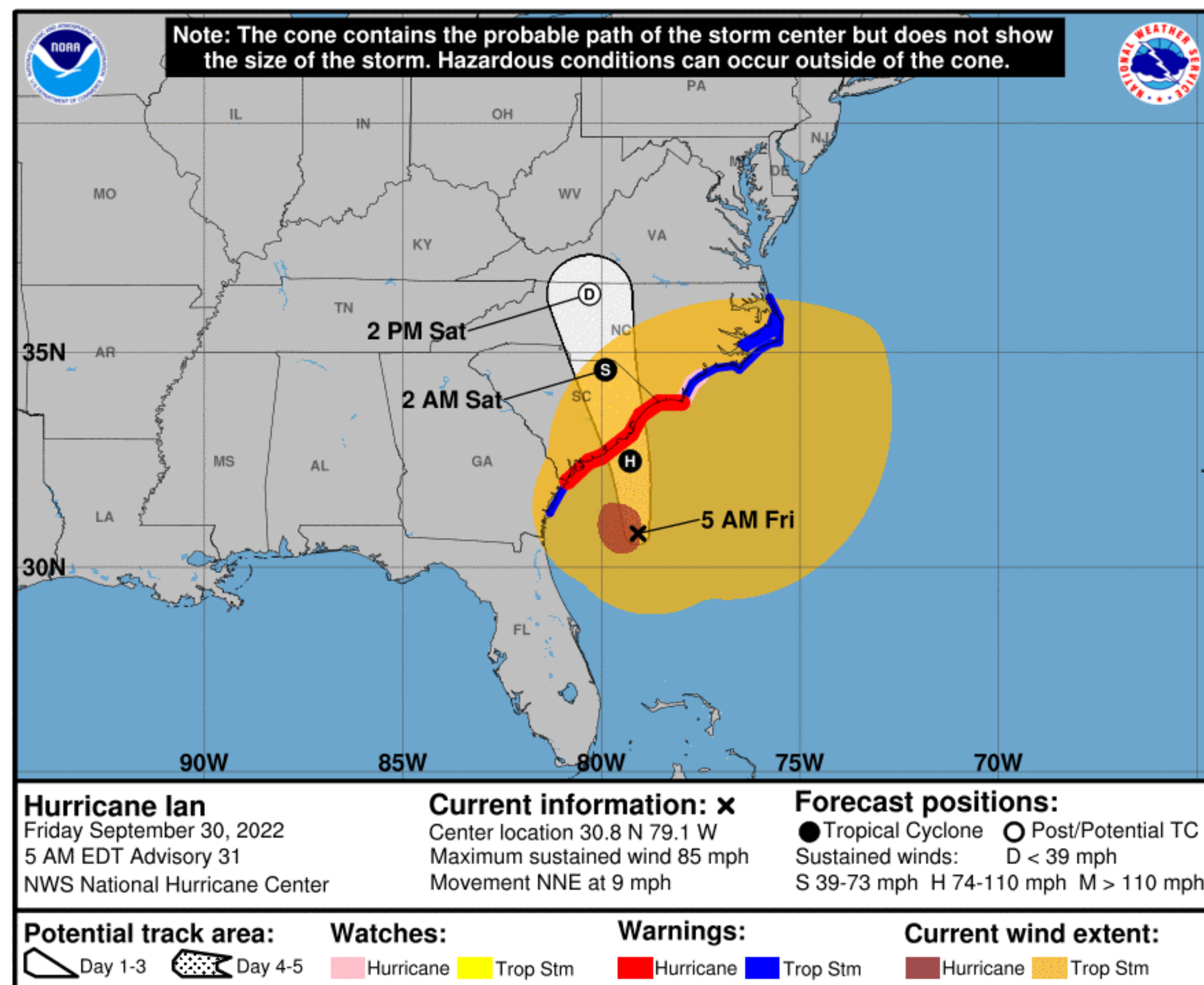
For information on specific hazards in this area, please go to <https://www.weather.gov/ilm/tropical>





Situation Overview

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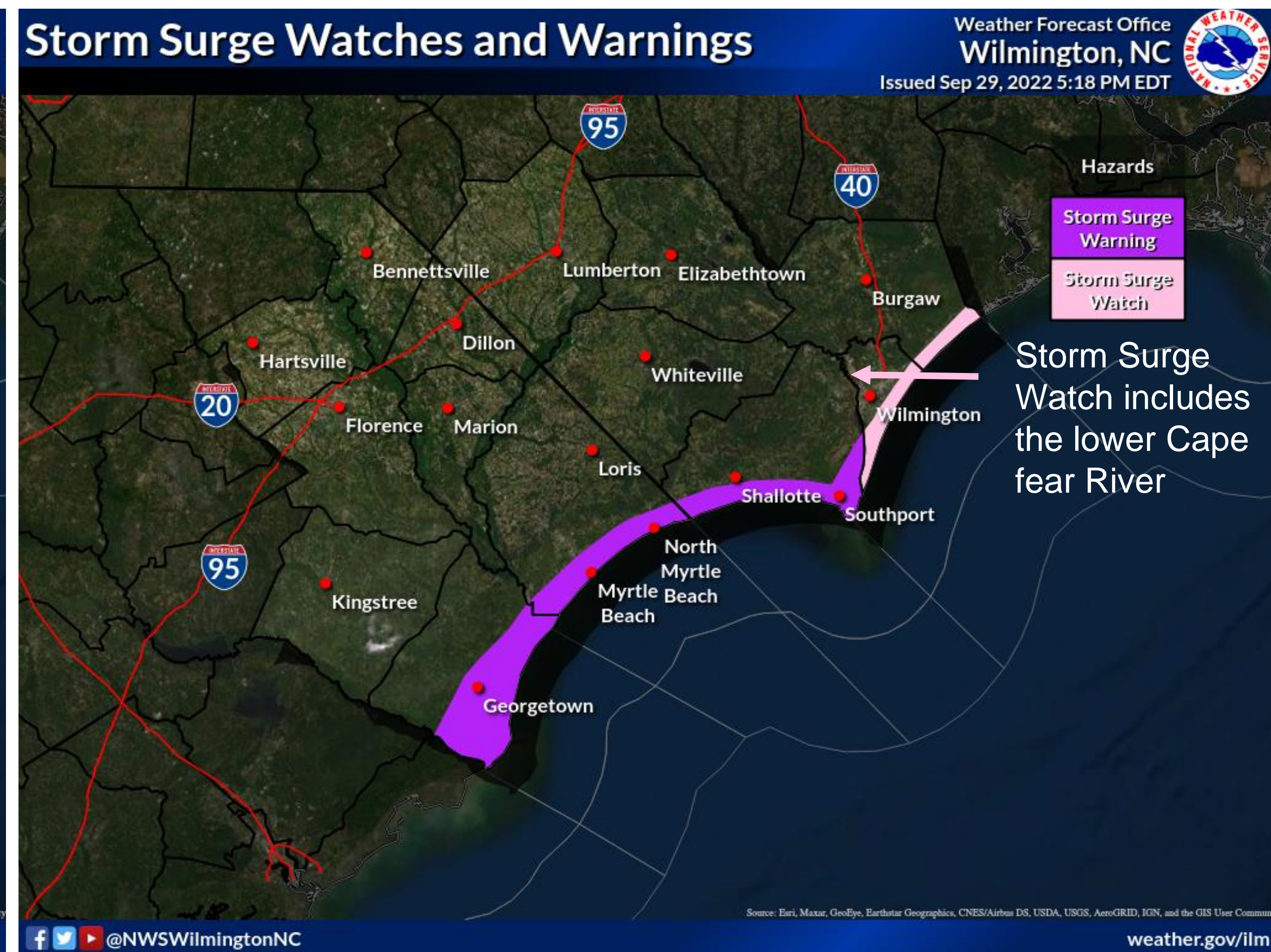
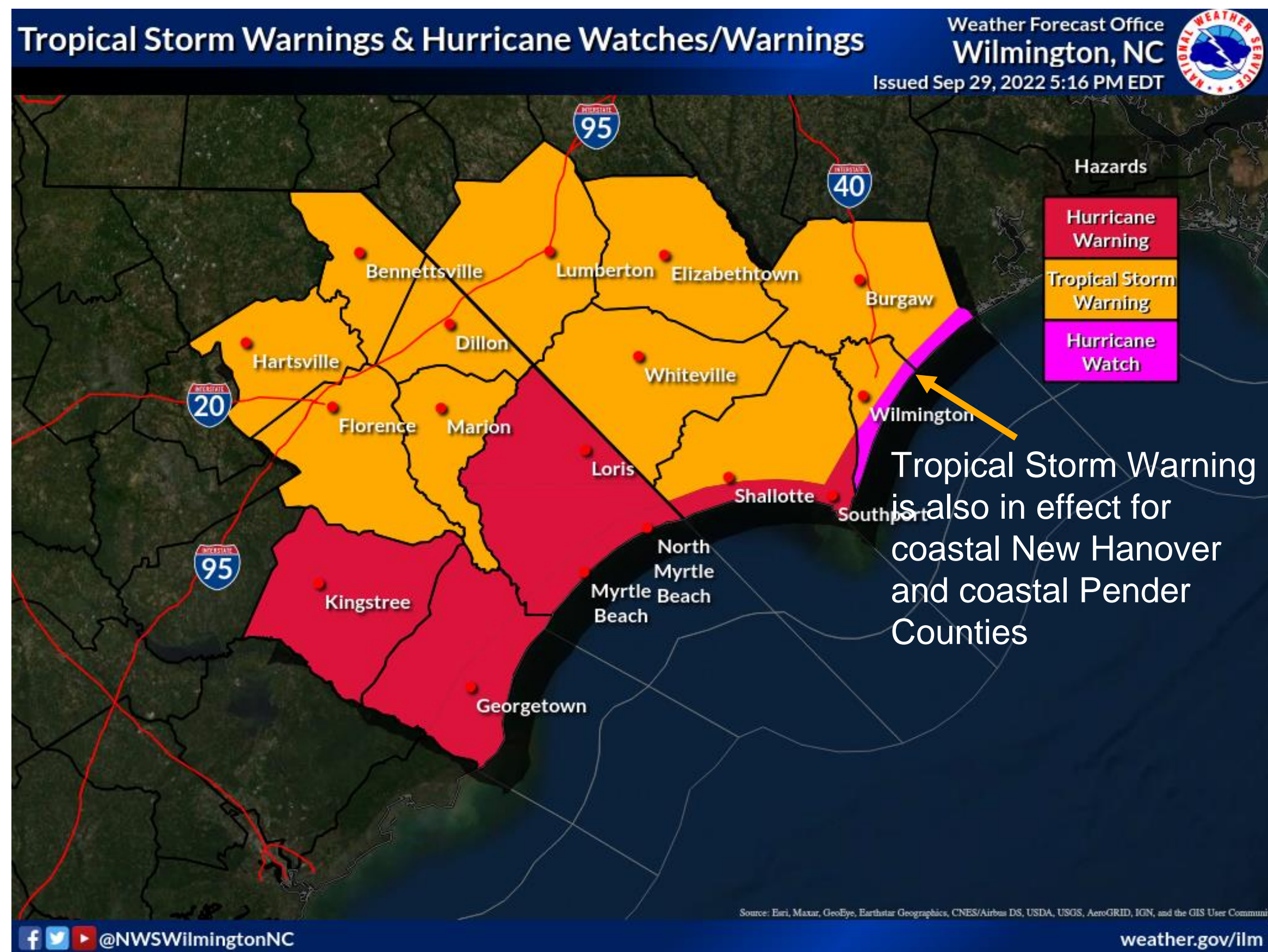
- Hurricane Ian is off the GA coast and will continue to track toward SC.
- Ian is forecast to remain a hurricane prior to landfall in SC during Friday.
- A variety of impacts will increase during the day including: strong winds, surge inundation, heavy rainfall, and tornadoes.
- Remember that the cone does not represent where impacts occur. Impacts will occur well outside of the cone.

NOTE: Do not focus on the exact track.
Impacts will occur well outside the area enclosed by the cone.



Current Tropical/Hurricane & Surge Watches/Warnings

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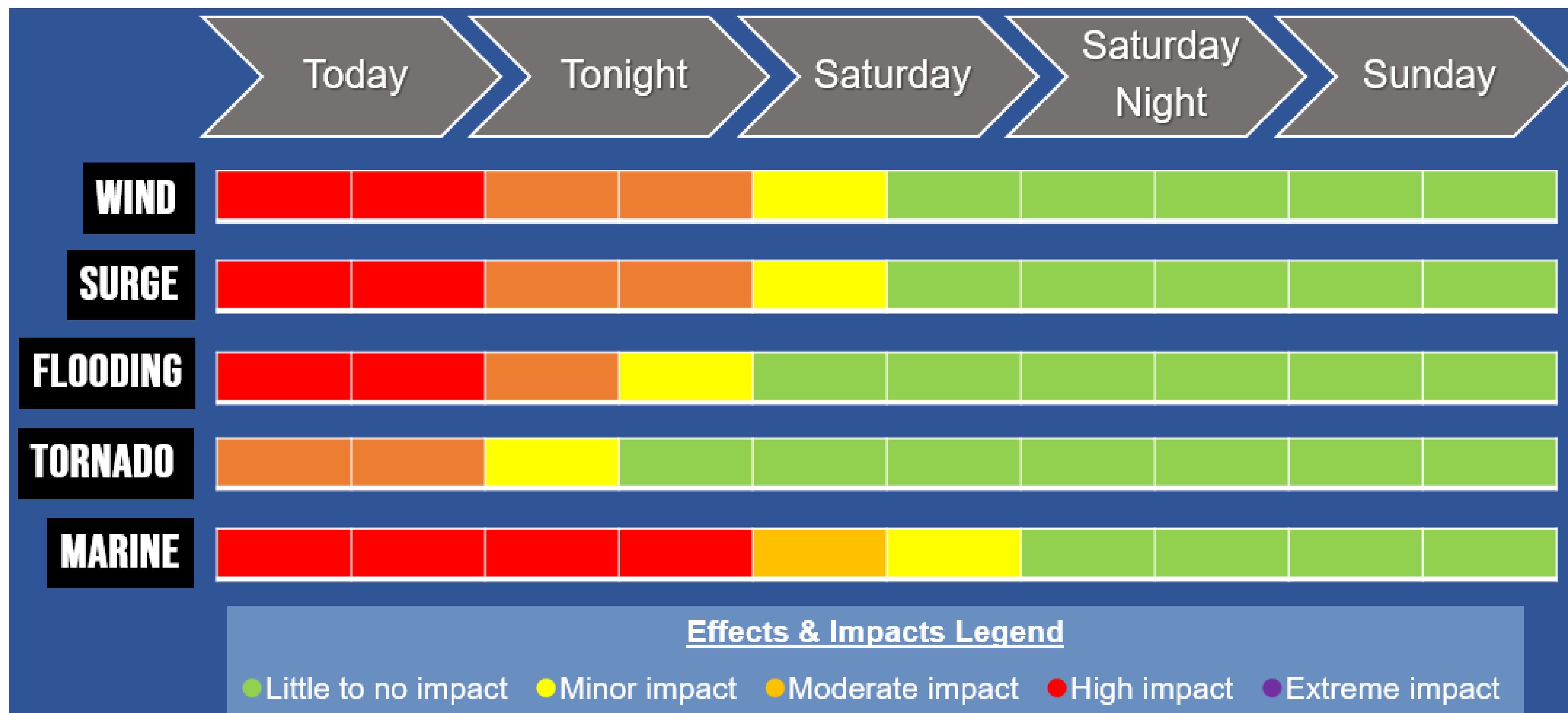


- A Flood Watch also remains in effect across all of northeast SC and southeast NC.



Impact Timeline: Primarily for northeast SC

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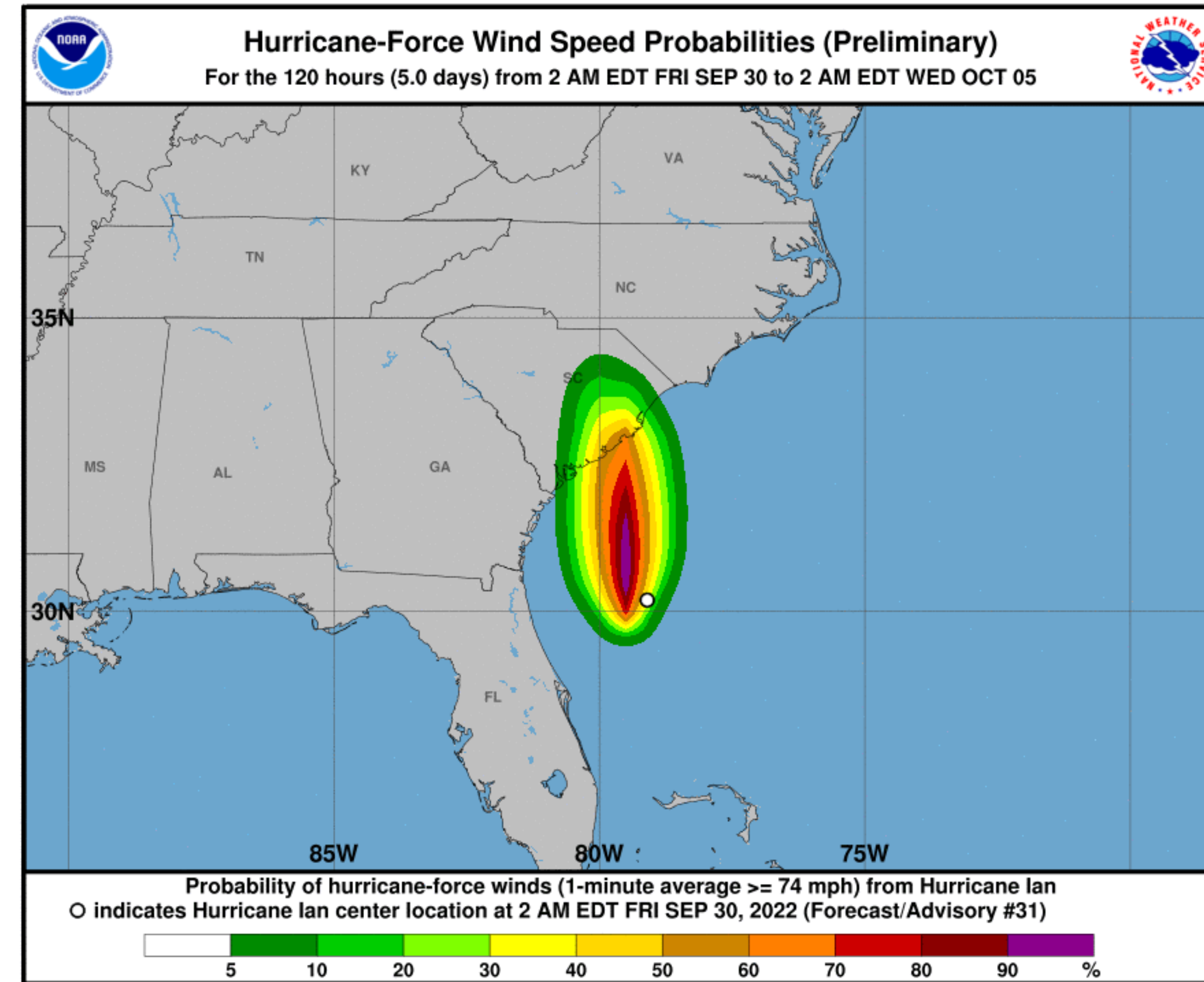
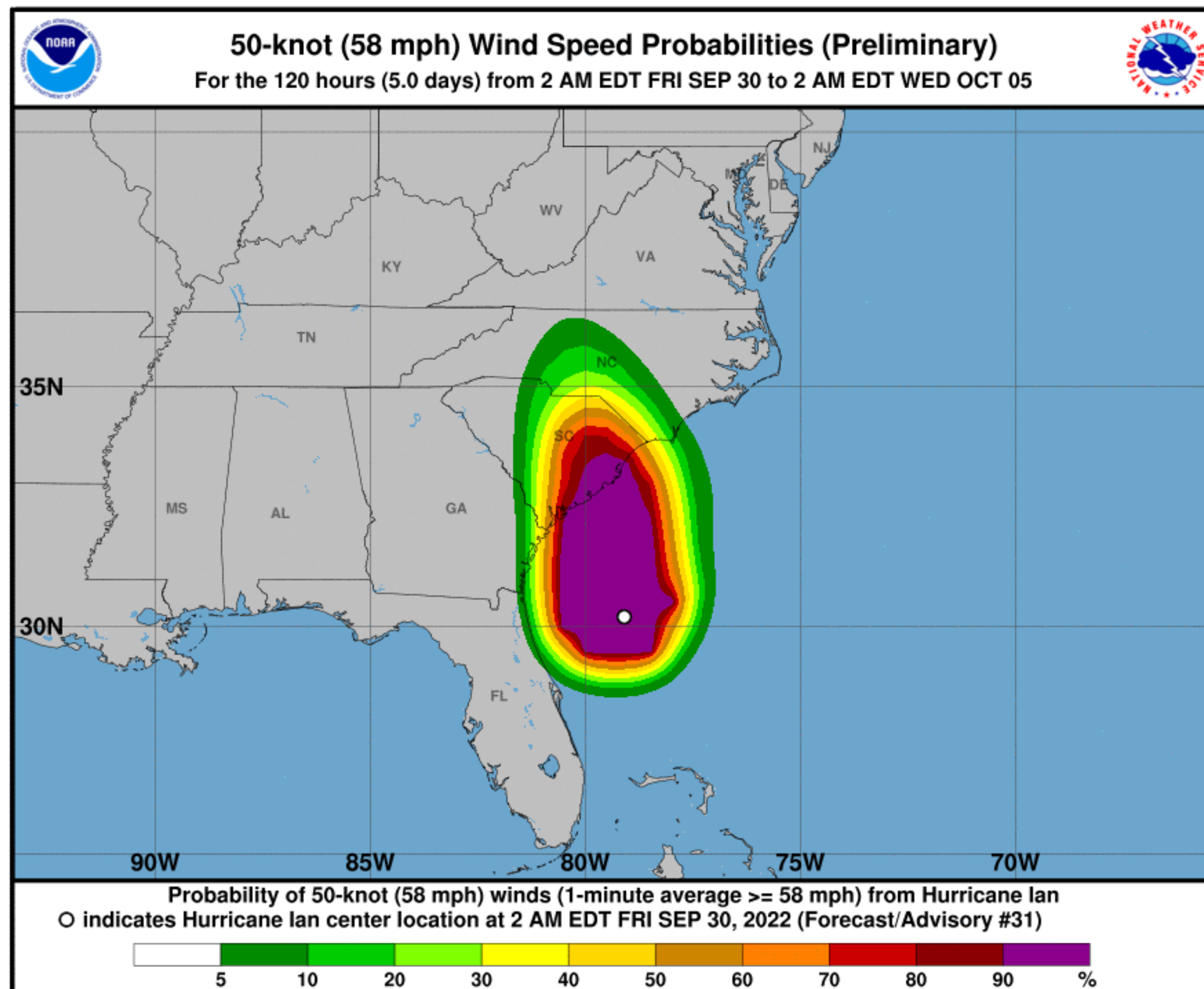


- Note: These impacts are highest across portions of northeast SC versus southeast NC.



50 kt Wind Speed Probabilities

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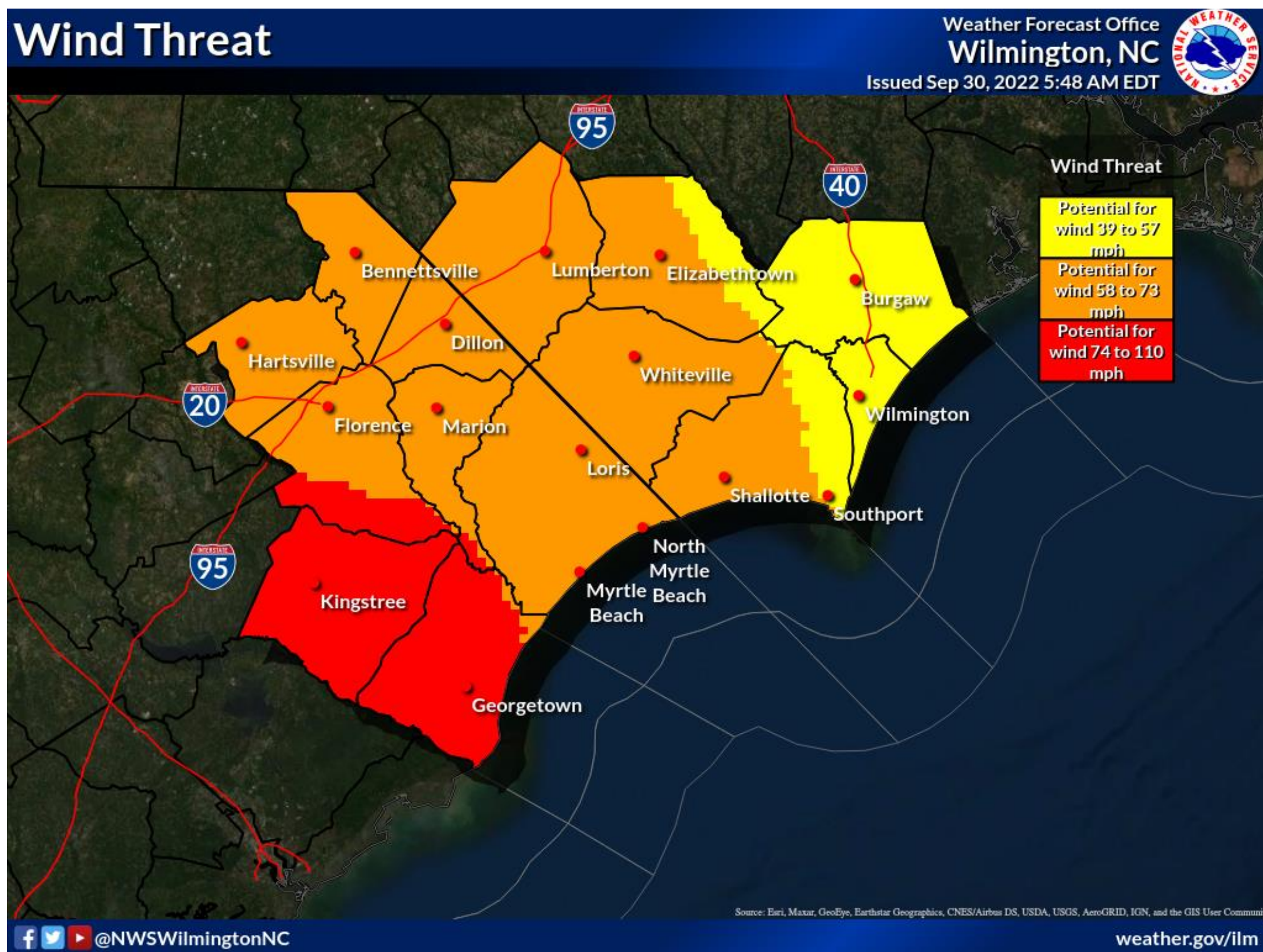
- The probabilities for 50 knot winds are very high across portions of northeast SC with less probabilities across southeast NC.
- The probabilities for Hurricane-Force winds also extend into portions of northeast SC.



Wind Threat / Potential Impact

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*This graphic accounts for the latest forecast and includes a reasonable safety margin to account for any forecast deviation. **It represents the potential impacts to prepare for.**



In the area with the highest winds there is a potential for:

- Some structural damage along with damage to roofing, siding, awnings, porches, carports, sheds, fences, and unsecured objects
- Additionally, downed trees/large limbs are expected with power outages, debris could block roads

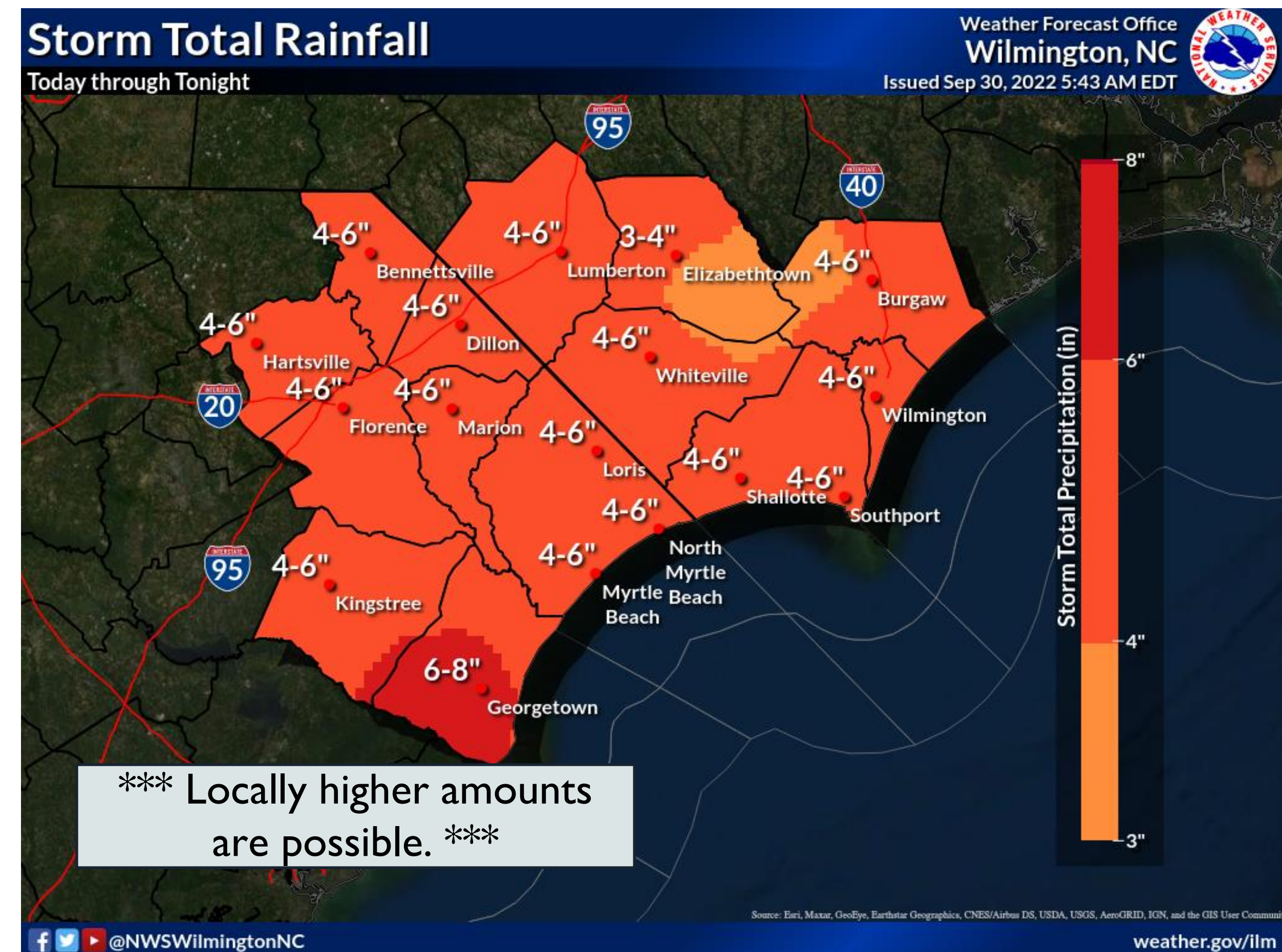
Wind Threat				
Potential for wind greater than 110 mph	Potential for wind 74 to 110 mph	Potential for wind 58 to 73 mph	Potential for wind 39 to 57 mph	Wind less than 39 mph



Storm Total Rainfall Outlook

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Note: Amounts are highly dependent on the track. As a result, any change could result in significant differences to the amount, and where the highest totals occur.



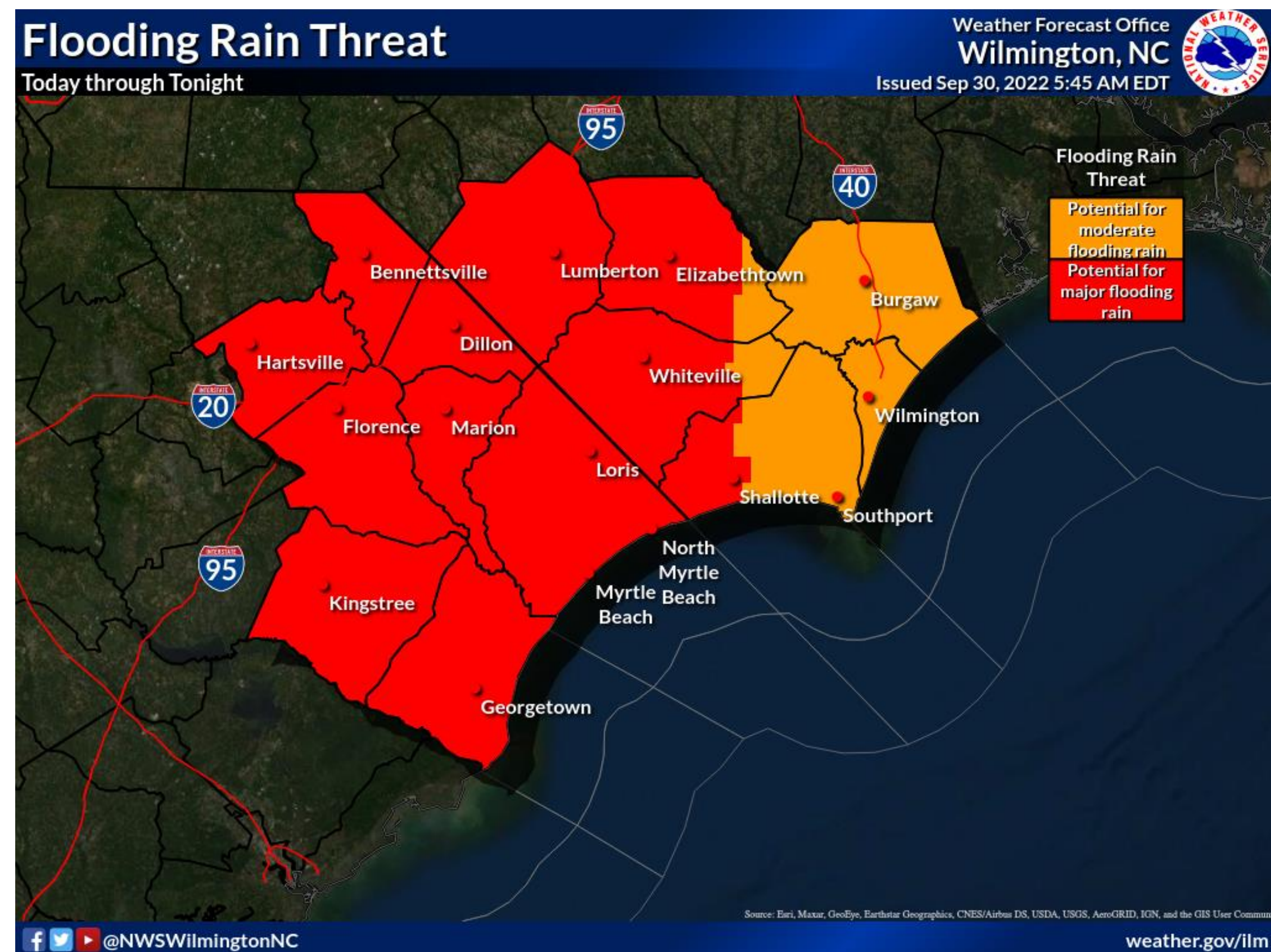
- Widespread rainfall of 4 to 6 inches is expected, while closer to 6 to 8 inches is expected across portions of Georgetown and Williamsburg Counties.
- The heaviest rainfall is expected through today with drier conditions expected to develop by Saturday.
- This amount of rainfall could result in flash flooding, especially near low-lying and other locations prone to flooding.



Flood Rain Threat / Potential Impacts

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*This graphic accounts for the latest forecast and includes a reasonable safety margin to account for any forecast deviation. It represents the potential impacts to prepare for.



A Flood Watch is in effect for all of northeast SC and southeast North Carolina.

In the area with the greatest flooding rain threat there is a potential for:

- Flood waters entering some structures, especially those prone to flooding along low-lying areas
- Hazardous driving conditions
- Some streams rapidly overflowing their banks
- People may become cut-off from flood waters
- Many streets and parking lots become flooded
- Potential for some road scours

Flooding Rain Threat

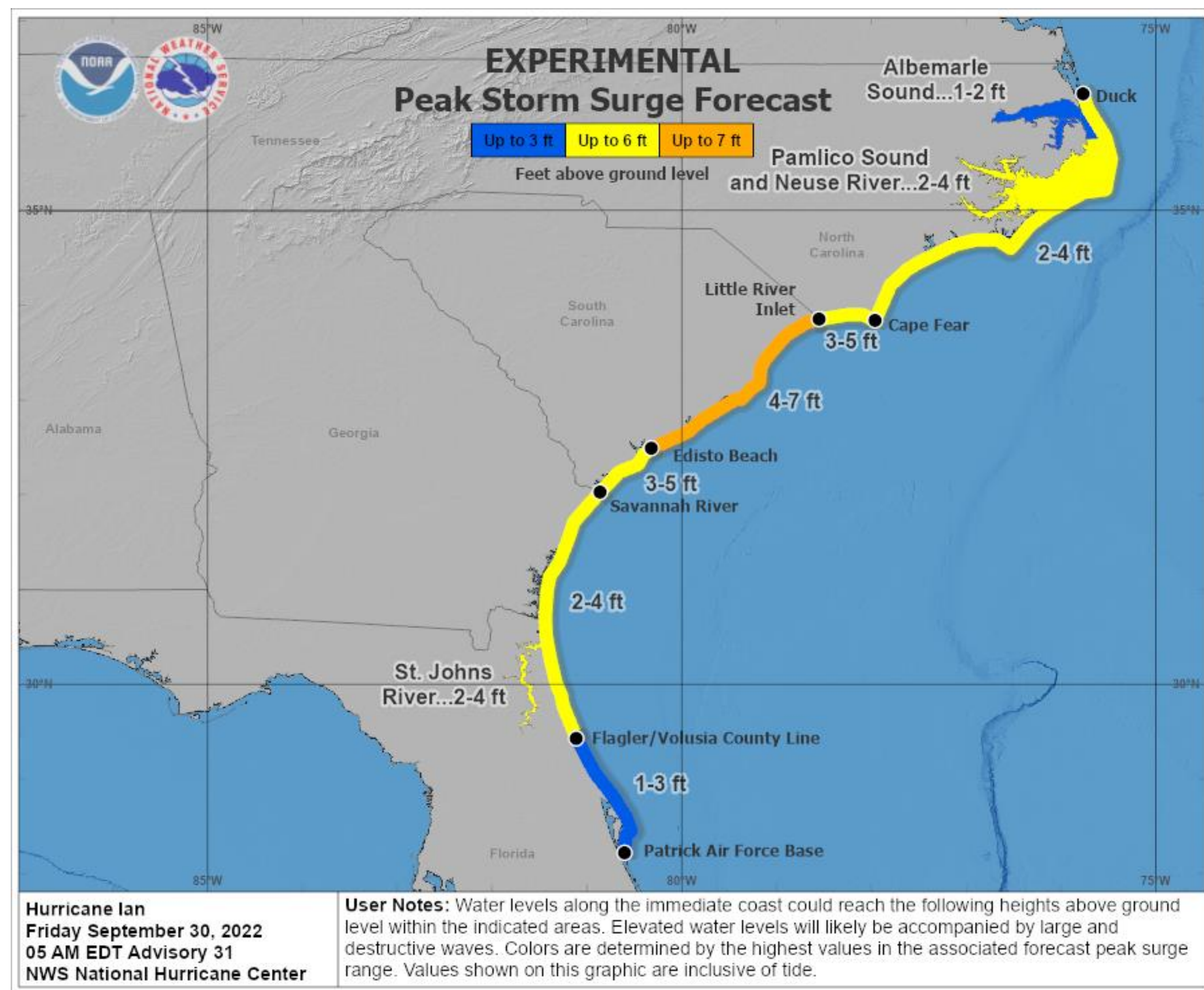
Potential for extreme flooding rain	Potential for major flooding rain	Potential for moderate flooding rain	Potential for localized flooding rain	Little to no potential for flooding rain
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Peak Surge Inundation

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Note: This graphic shows where surge inundation could occur in any one location, depicting a reasonable worst case scenario, especially for where peak surge were to coincide with high tide.



- **Dangerous surge inundation is expected today.**
- Surge inundation of 4 to 7 ft is expected from Little River Inlet to the South Santee River and 3 to 5 ft between Little River Inlet and Cape Fear. Additionally, inundation of 2 to 4 feet is expected north of Cape Fear including the lower Cape Fear River.
- The inundation associated with the high tides today are expected to be the worst during this event.



Storm Surge Threat / Impacts

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*This graphic accounts for the latest forecast and includes a reasonable safety margin to account for any forecast deviation. **It represents the potential impacts to prepare for.**



Especially along areas between Cape Fear and the South Santee River there is a potential for:

- Sections of coastal roads inundated or washed out, especially in prone and vulnerable low-lying areas
- Major beach erosion is possible with heavy surf and elevated water levels impacting or breaching the dunes
- Damage to marinas and docks. Vessels may break away from moorings, especially in unprotected anchorages
- Aids to navigation may be off station, making navigation difficult, especially near inlets and waterways
- Damage to structures near the coast is also possible, especially in those areas with a weakened shoreline structure vulnerable from past erosion

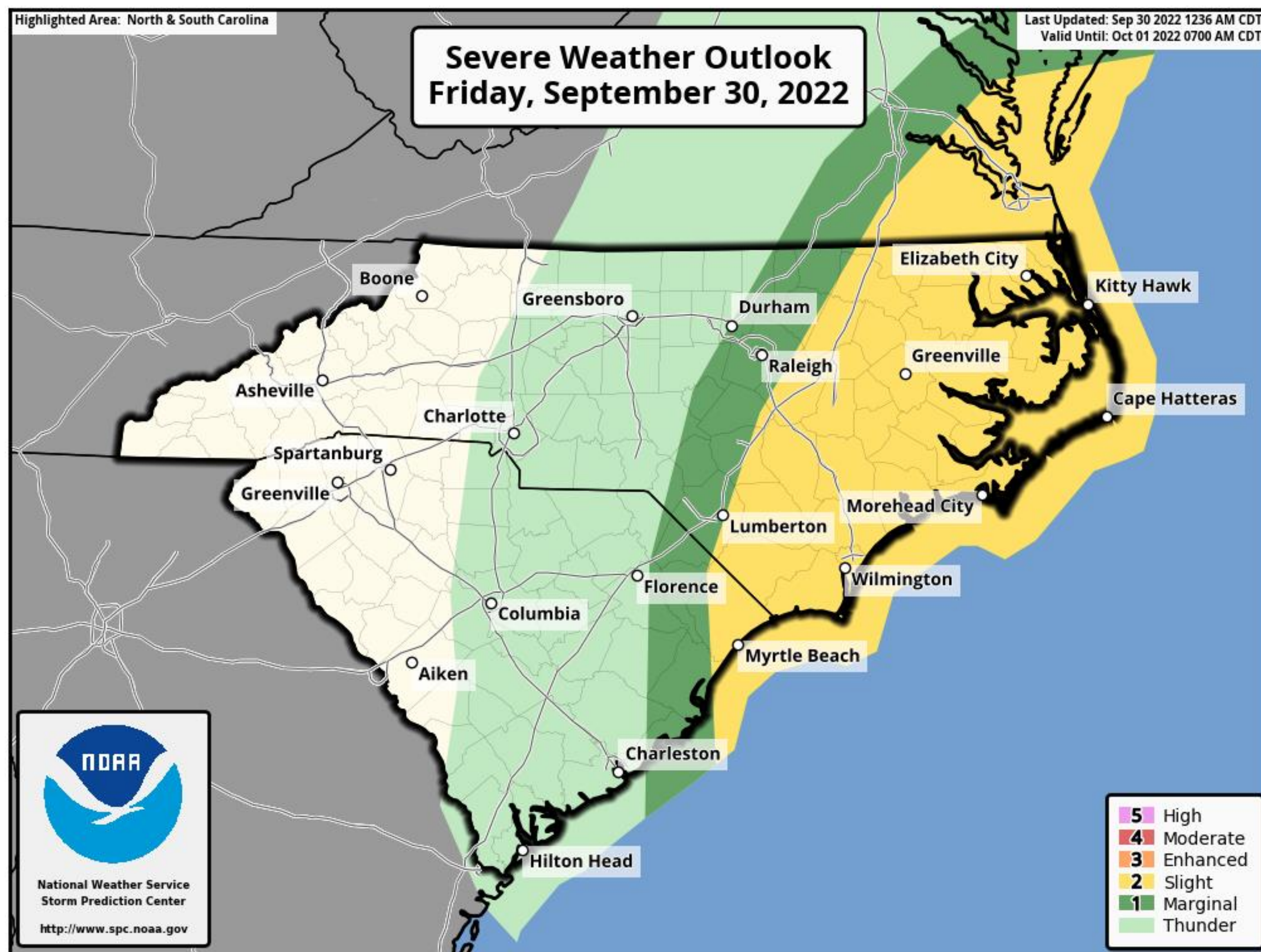
Storm Surge Threat

Potential for storm surge flooding greater than 9 ft above ground	Potential for storm surge flooding greater than 6 ft above ground	Potential for storm surge flooding greater than 3 ft above ground	Potential for storm surge flooding greater than 1 ft above ground	Little to no storm surge flooding
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Tornadoes

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- There is a Slight Risk (2 of 5) for tornadoes across portions of southeast NC and Horry County and a Marginal Risk (1 of 5) for portions of northeast SC
- The risk for isolated tornadoes will increase during the day and persist into the evening

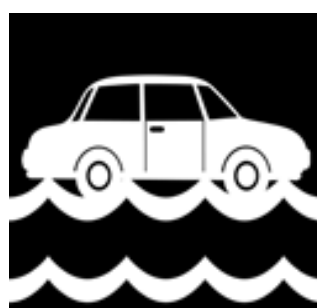


Key Take-Aways

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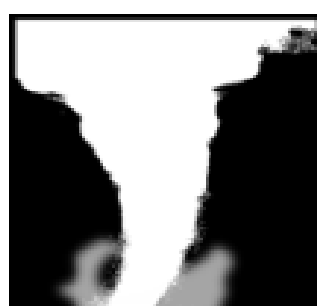
Strong winds will continue to move into the area today and persist into tonight, with improving conditions during Saturday.



Dangerous surge is expected today. Surge inundation is likely, with the worst surge impacts expected during the high tide approximately around 11:15 AM EDT (various some by location).



Heavy rainfall is likely with flash flooding possible today and tonight. Flooding will be especially pronounced near low-lying and other prone locations.



A few tornadoes are possible, with the risk increasing this morning and persisting into tonight.



Very hazardous marine conditions will continue through Saturday.



Hurricane Ian

National Weather Service Wilmington, NC - serving southeast NC and northeast SC

The Next Briefing for northeast SC and southeast NC: Friday September 30th at 1:30 PM EDT



Web: <http://weather.gov/ilm>



E-mail: nws.ilm.operations@noaa.gov



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