



# Tropical Storm Isaias

(pronounced “ees-ah-EE-ahs”)

## Briefing for northeast South Carolina and southeast North Carolina

### **What has changed:**

- ✓ Tropical Storm Watch in effect for all areas (except Marlboro and Darlington counties)
- ✓ Flash Flood Watch is now in effect
- ✓ Storm Surge Watch is now in effect from Cape Fear southward to the northeast SC coast

**7:30 AM EDT**

**Sunday August 2, 2020**

*Prepared by: WFO Wilmington, NC*

**Next Briefing: 1130 AM EDT Sunday August 2 2020**

*Disclaimer: The information contained within is time-sensitive. Do not use after 1130 AM EDT Sunday Aug 2, 2020*

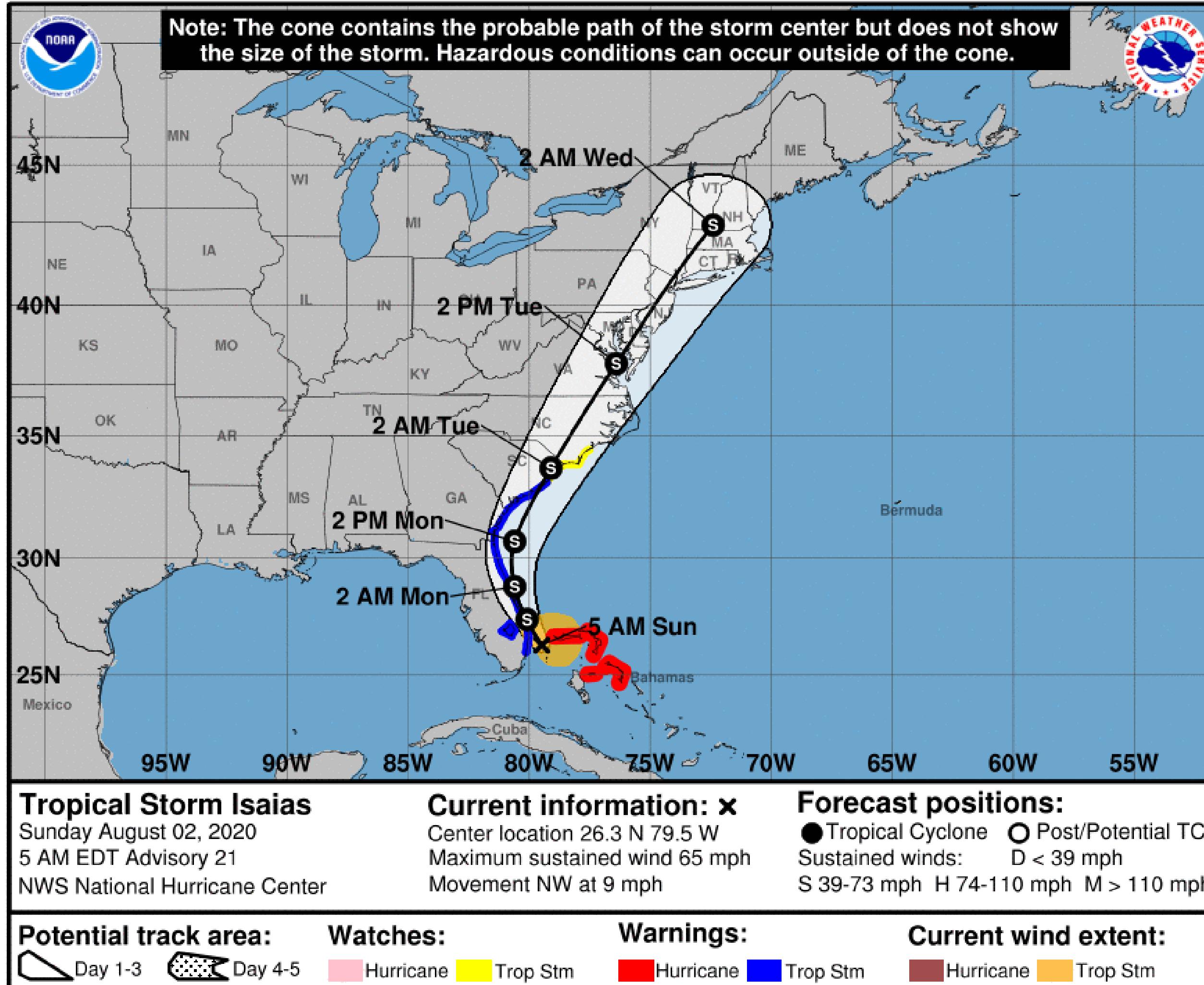
# Situation Overview

## Tropical Storm Isaias



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- The forecast track remains very close to the southeast U.S. coast Monday then the storm will lift quickly away to the Mid-Atlantic coast during Tuesday and into New England Tuesday night
- The current track will bring the greatest impacts to the area for northeast SC and southeast NC Monday night into early Tuesday morning
- Conditions should begin to improve for the area during Tuesday as the storm quickly exits

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

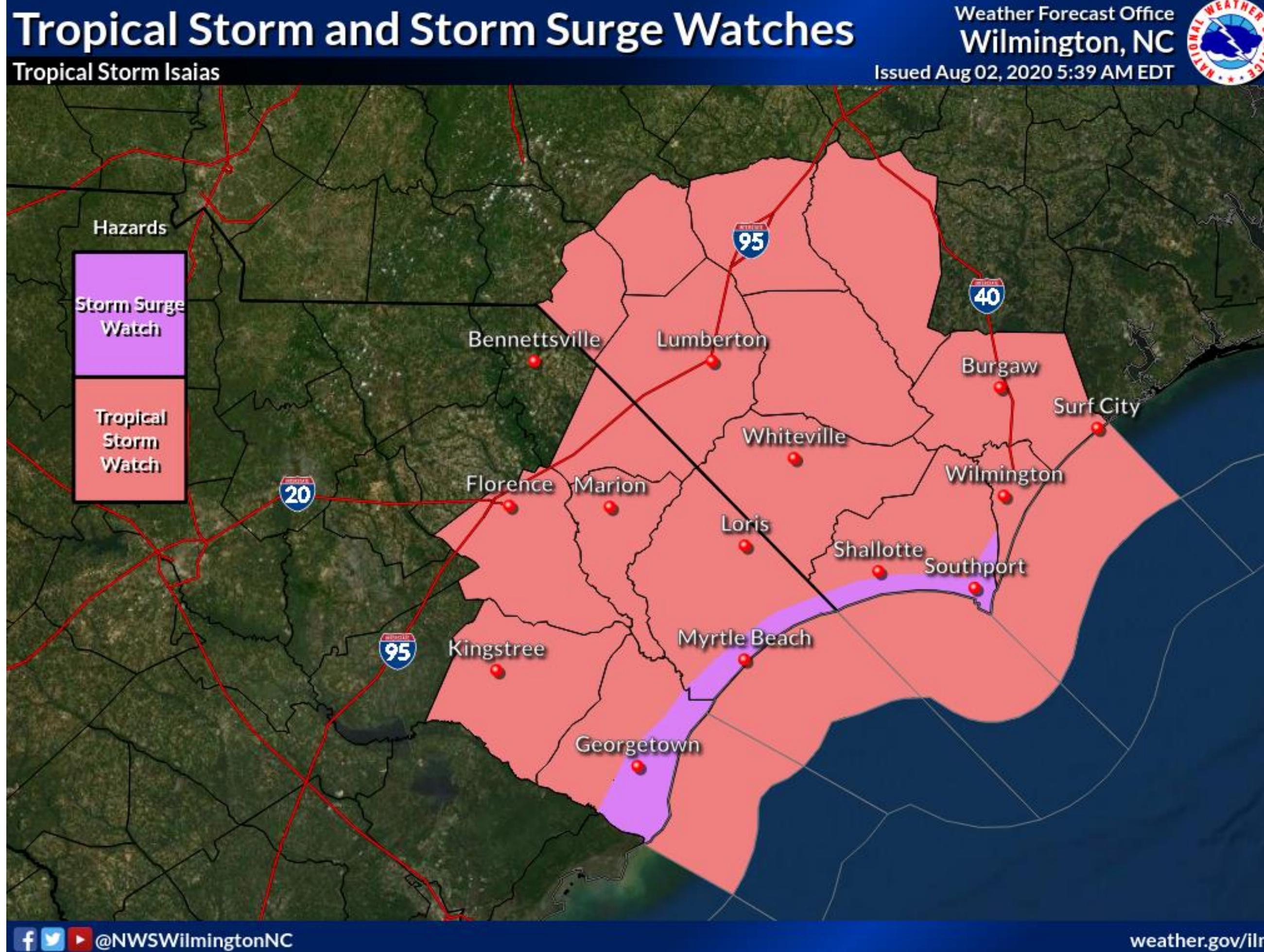
# Watches & Warnings

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- A Tropical Storm Watch is in effect for all areas except Marlboro and Darlington counties
- A Storm Surge Watch is in effect for Brunswick, Horry, and Georgetown counties
- A Flash Flood Watch (not shown) is in effect for all counties

# Situation Overview

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Hazard	Impacts	Location	Timing
Wind 	Potential for moderate wind impacts with downed trees/limbs and some power outages	Most areas, but especially northeast SC coastal areas	Monday evening into Tuesday morning
Storm Surge/ Inundation 	Potential for moderate coastal inundation impacts and erosion possible	Especially northeast SC coastal areas	Especially around high tide Monday night
Flooding Rain 	Potential for moderate flooding impacts, especially near poor drainage and low-lying flood prone locations	Northeast SC and southeast NC	Monday afternoon into Tuesday morning
Tornado 	Some tornadoes possible	Most areas but especially coastal areas of Northeast SC and southeast NC	Monday afternoon into Tuesday morning
Marine 	Hazardous marine conditions and dangerous rip currents	All waters coastal and nearshore waters, and beaches	Rip current threat continues early next week. High seas/wind highest Monday night into early Tuesday morning

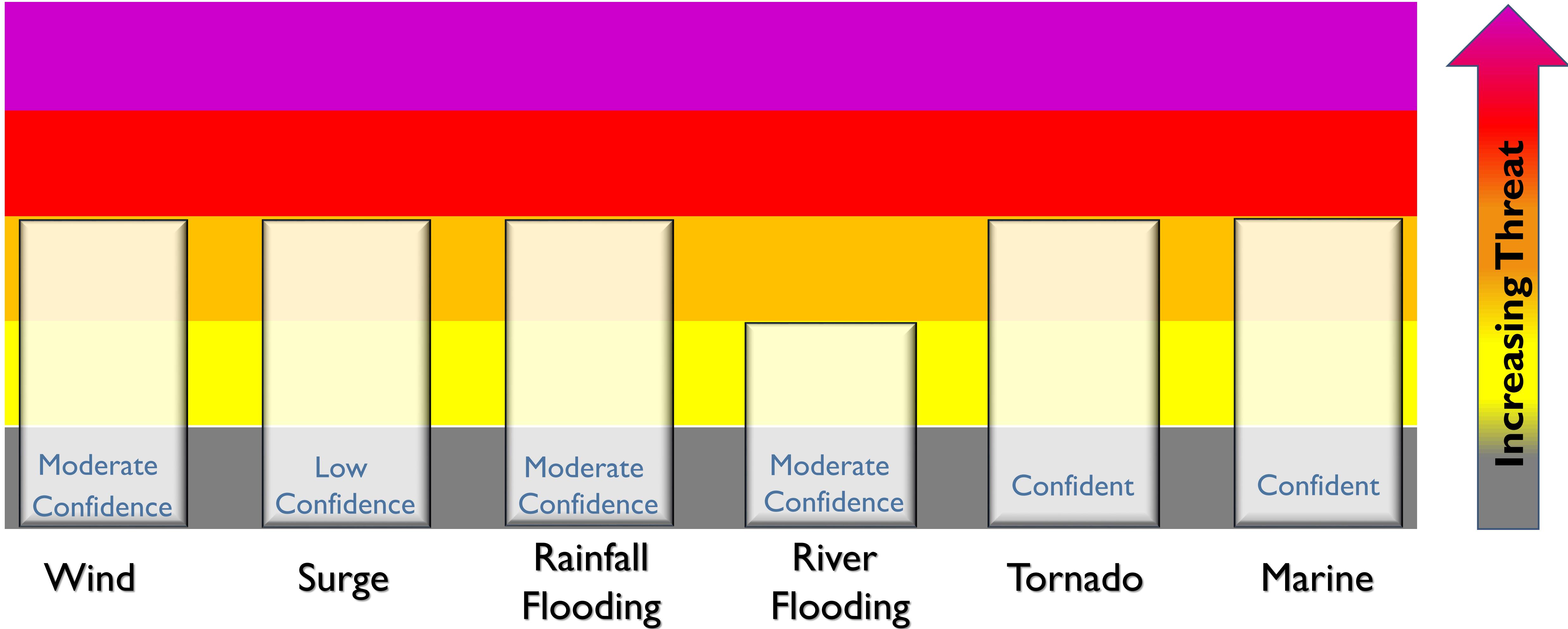
# Threat Levels

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

# Tropical Storm Wind Speed Probabilities

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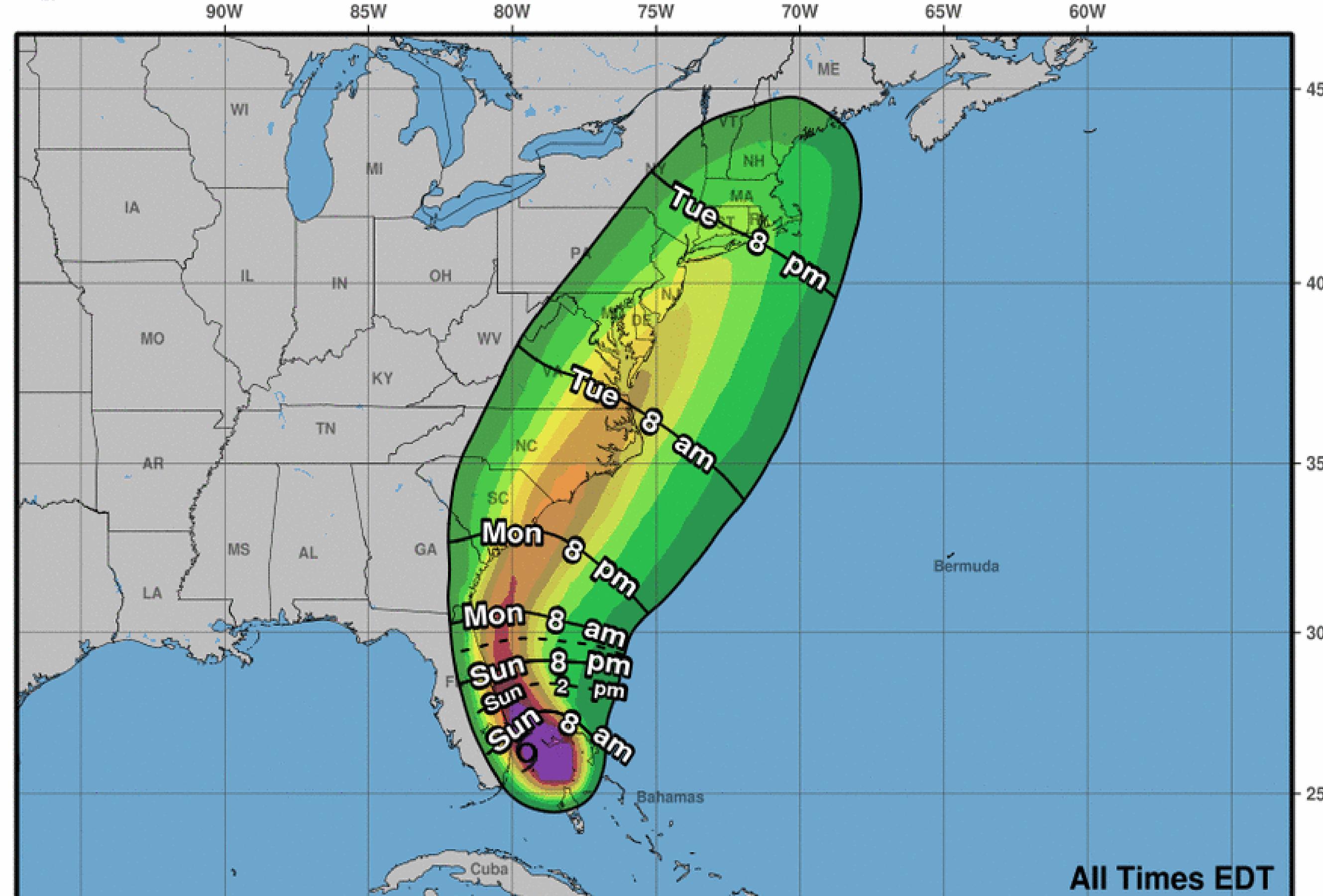


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0-3 Day Most Likely Arrival Time of Tropical-Storm-Force Winds



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Sun. Aug. 2, 2020 5 am EDT

Advisory 21

Storm Location  
&  
Wind Speed

○ < 34 kt (39 mph)  
○ 34-63 kt (39-73 mph)  
● ≥ 64 kt (74 mph)

3-day chance of receiving sustained 34+ kt (39+ mph) winds

5 10 20 30 40 50 60 70 80 90 100 %

- The probabilities for tropical storm force winds indicate a high likelihood of tropical storm force winds, especially for the coastal areas of northeast SC and the Cape Fear area
- The most likely arrival of tropical storm force winds is Monday night for northeast SC and southeast NC.

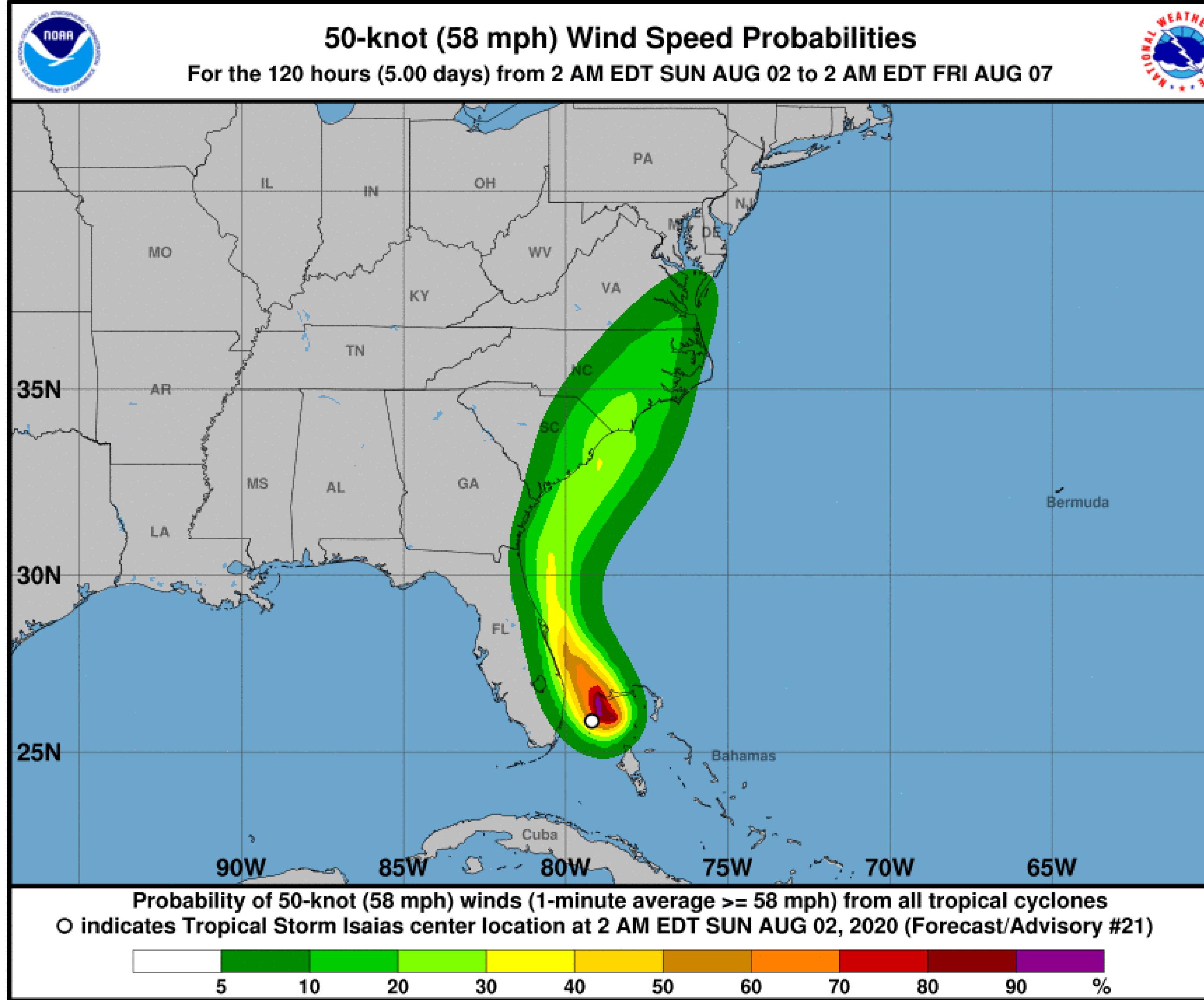
# 50-kt Wind Speed Probabilities

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- The probabilities are up to 30% for 50-kt winds along coastal northeast SC and portions of the Cape Fear region

# Wind Threat / Potential Impact

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There is a potential for moderate winds impacts across a large area of northeast SC and southeast NC

- Potential impacts include some damage to roofing and siding, along with damage to porches, awnings, carports, and sheds
- Large limbs and some trees down with scattered power outages
- Some small craft may break loose if they are not properly moored

# Wind Information

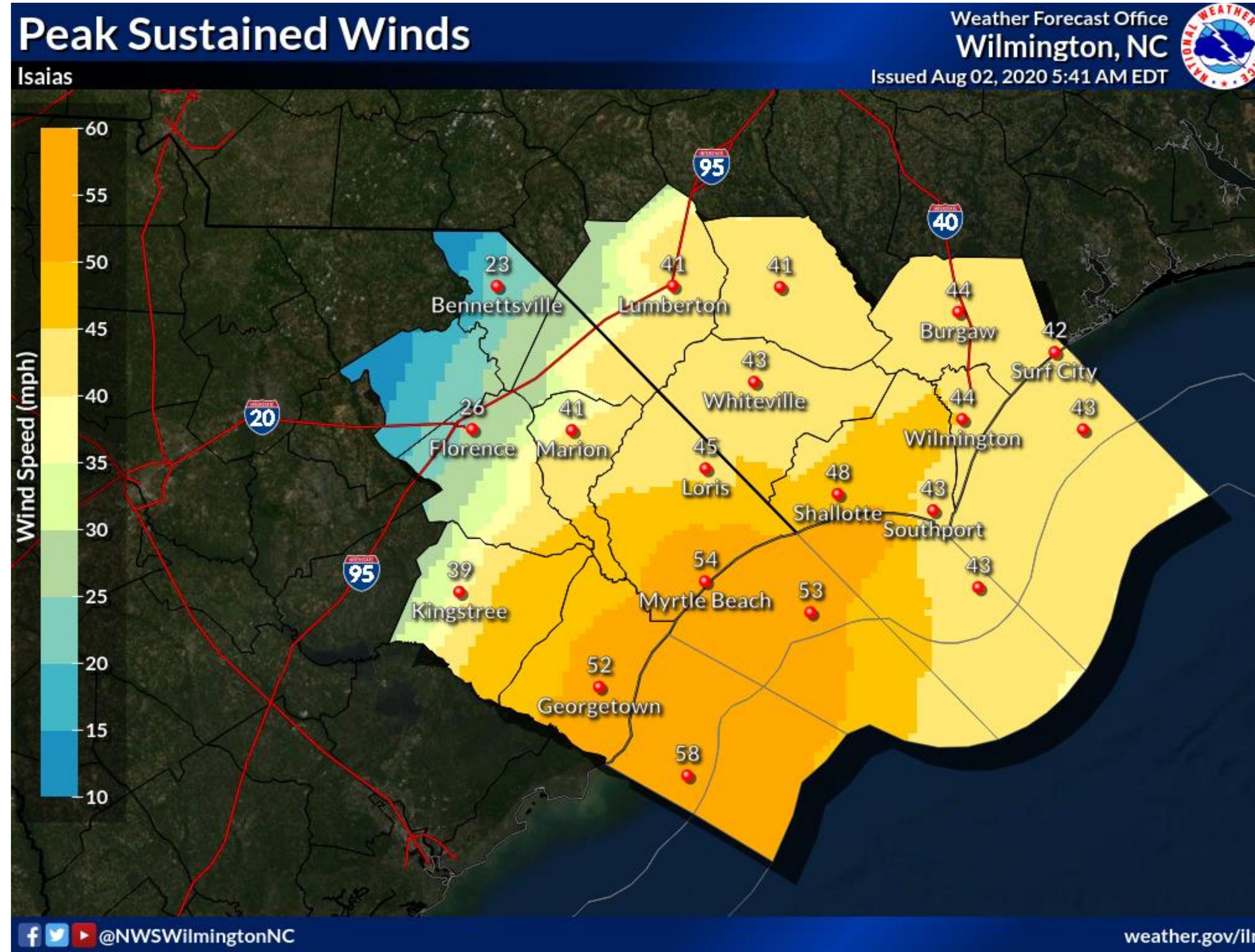
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## Peak Sustained Winds



**Note:** These winds are **highly dependent** on the storm's track and intensity. As a result, any change could result in significant differences to the peak sustained winds that occur.

- Potential sustained winds have decreased slightly for some areas
- The potential for the highest sustained winds is along the coastal areas of northeast SC
- Areas with the highest winds can expect downed trees/limbs, damage to fences, awnings, and unanchored mobile homes
- In addition, some power outages are possible in the areas that have the higher winds

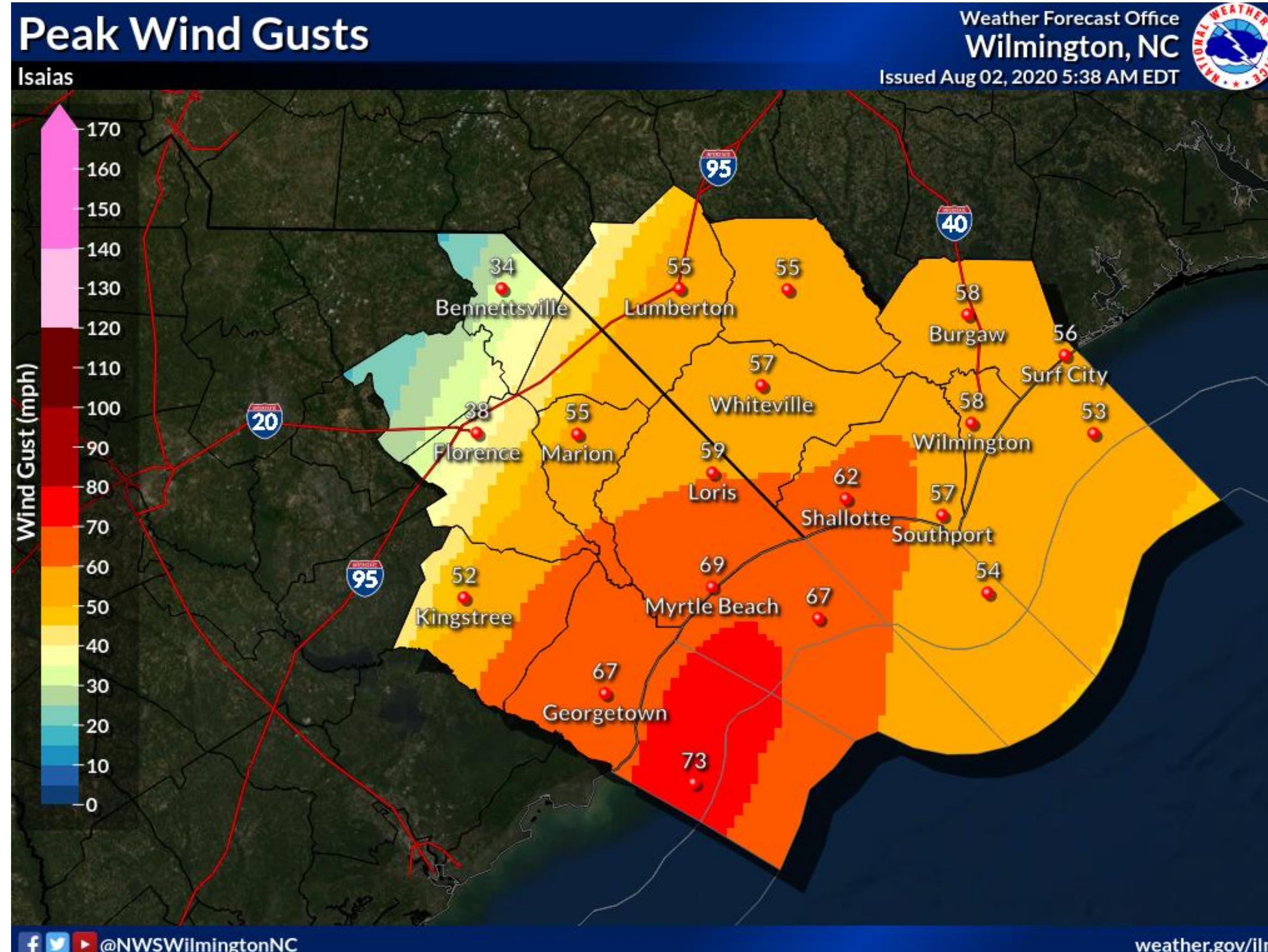
# Wind Information

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**Note:** These winds are **highly dependent** on the storm's track and intensity. As a result, any change could result in significant differences to the peak wind gusts that occur.

- Potential wind gusts are now expected to be slightly lower, especially across coastal areas of the Cape Fear region
- The coastal areas of northeast SC have the greatest potential to see strong tropical storm force wind gusts
- Keep in mind that some uncertainty exists with the storm's intensity and track which would greatly influence sustained winds and gusts across the area

# Inland Flooding Impacts

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There is a moderate threat for flooding

- Potential impacts include some low-lying areas along roads flooded, flooding near poor drainage and prone locations
- Driving conditions will become hazardous with the some road closures possible

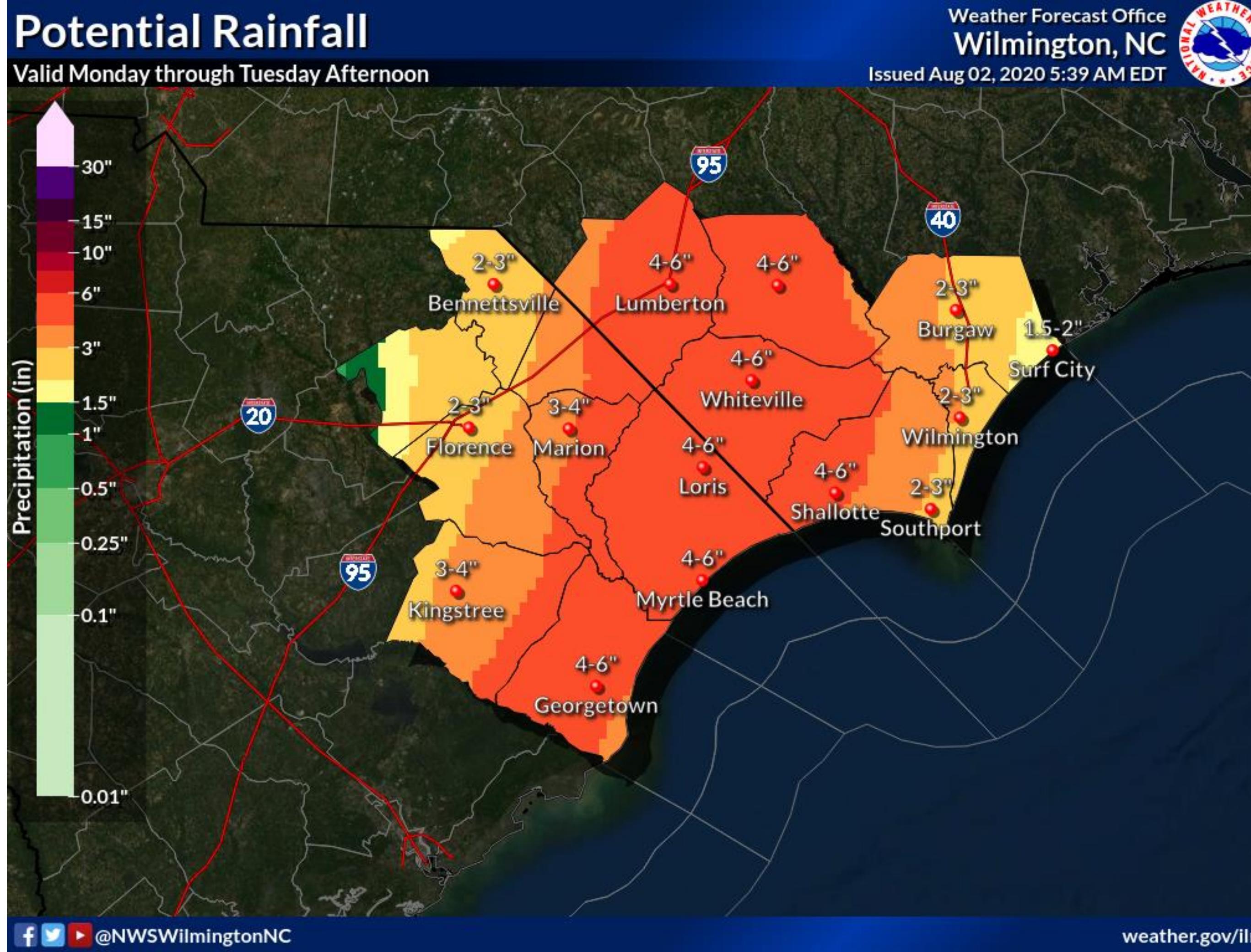
# Expected Storm Total Rainfall

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- Large swath of 4-6" rainfall amounts are expected over much of the area with isolated higher amounts possible
- A Flash Flood Watch is now in effect
- As a result, some flooding may occur, especially at poor drainage and other flood prone low-lying areas
- The greatest potential for flooding would be Monday night into early Tuesday morning
- Any subtle change in the track can shift the location of the axis of heaviest rainfall

**Note:** Rainfall amounts are highly dependent on the storm's track. As a result, any change could result in significant differences to the amount, and where the highest totals occur.

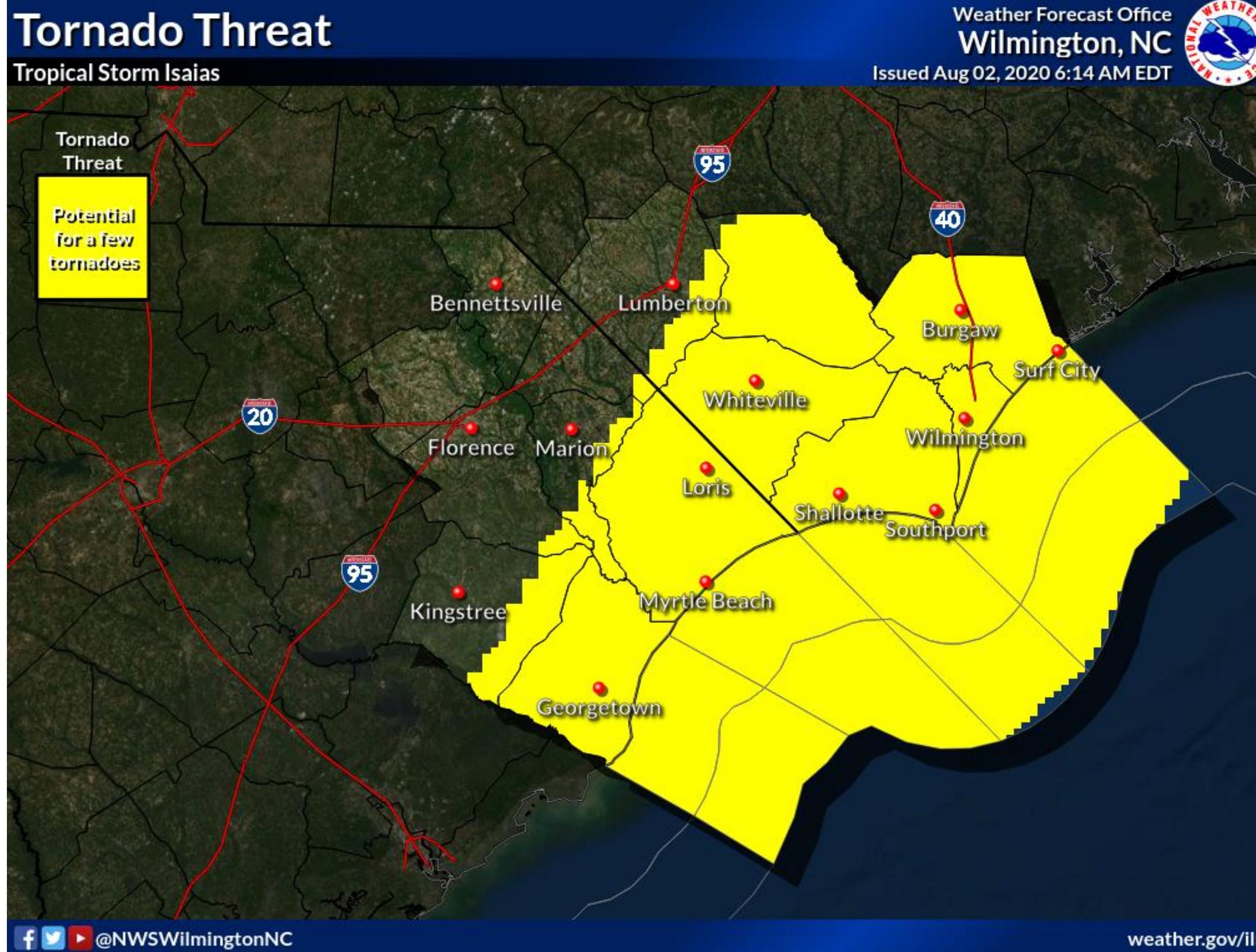
# Potential Tornado Impacts

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- There is a potential for a few tornadoes, especially east of a Lumberton to Marion and Kingstree line
- Tornadoes can significantly damage homes, destroy mobile homes, and uproot/snap trees

# Tornado Potential

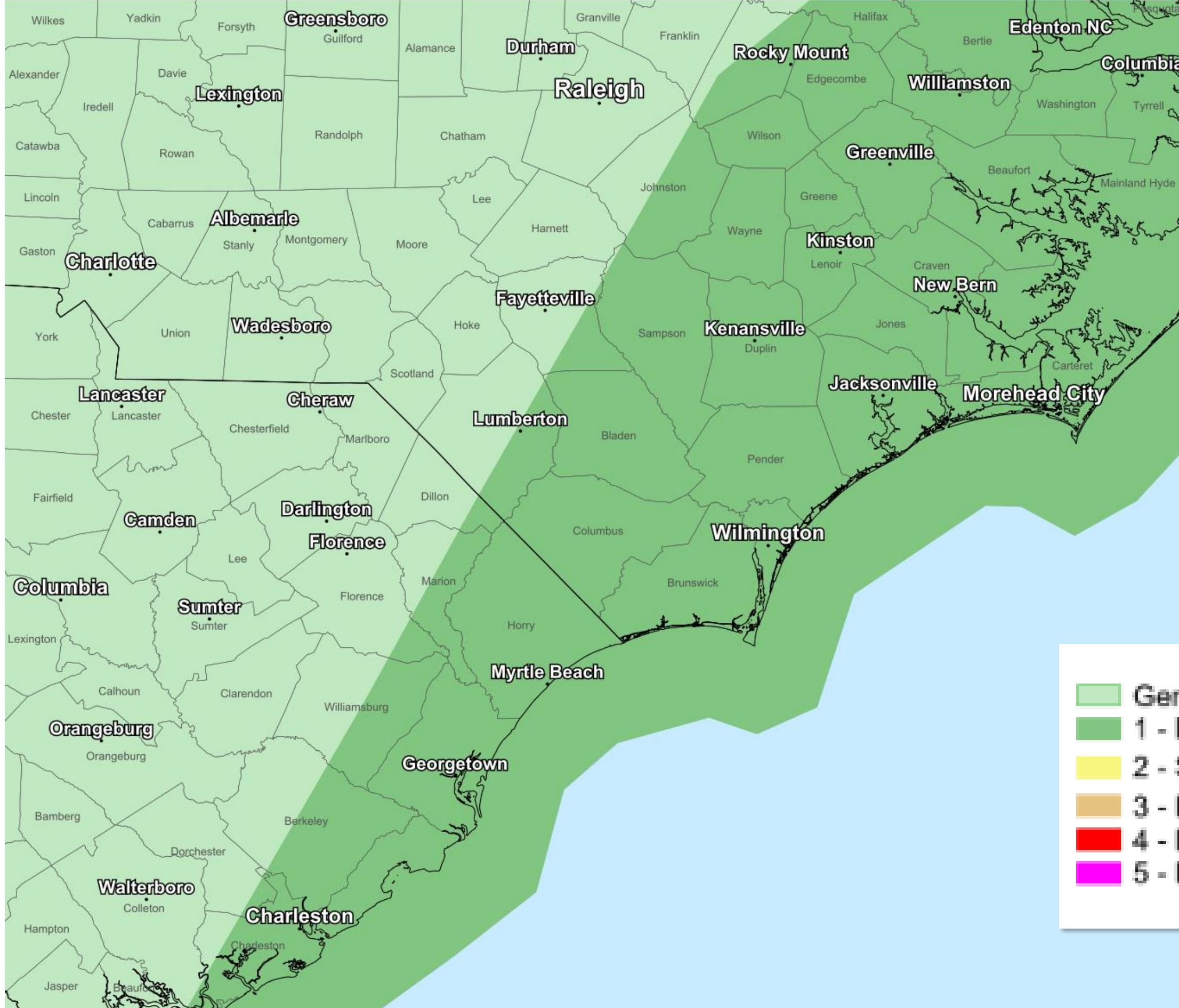
## Tropical Storm Isaias



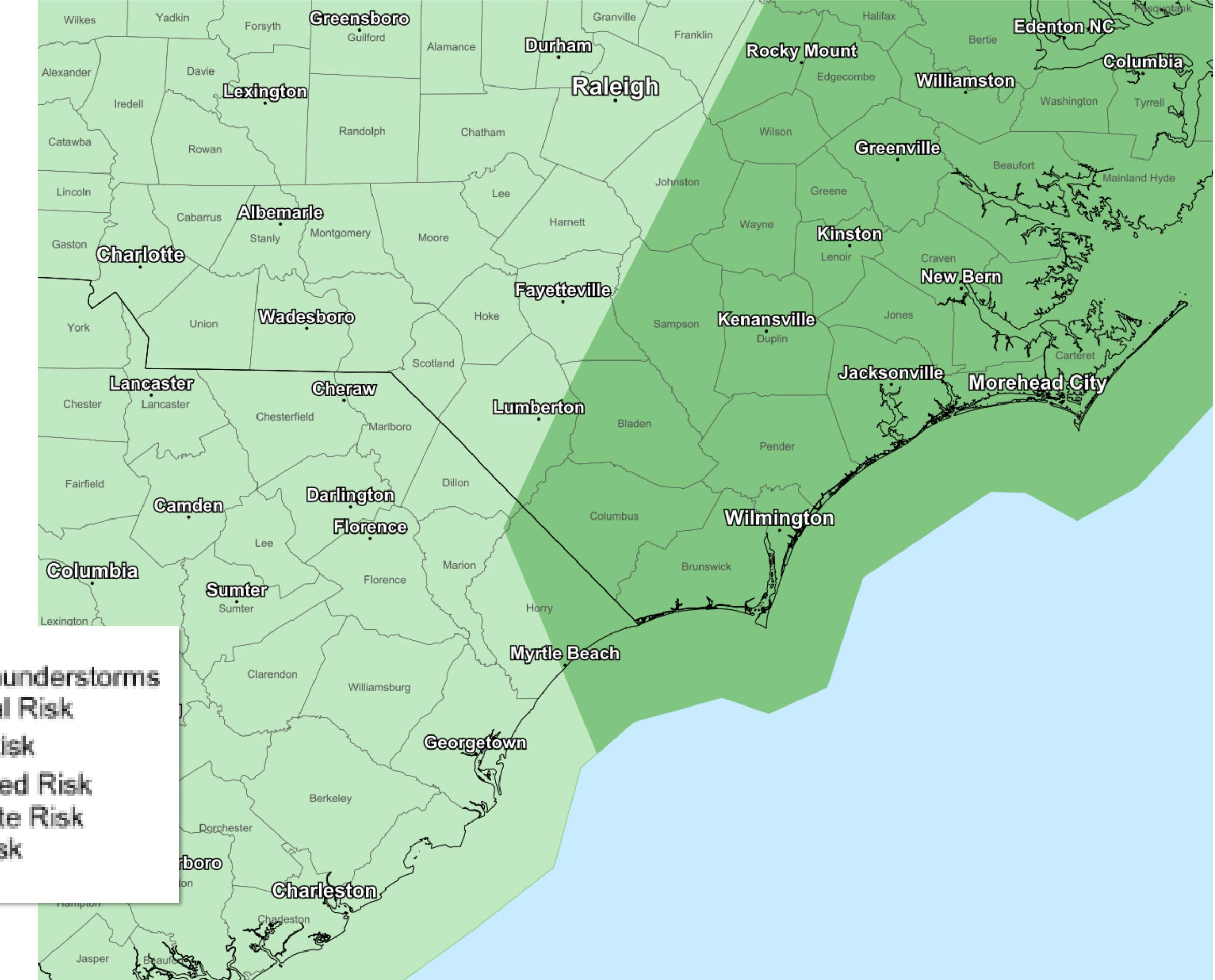
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Tomorrow's (Monday) Severe Weather Outlook



Tuesday's Severe Weather Outlook



- There is a risk for tornadoes primarily for Monday afternoon/night (left image) primarily east of a Lumberton to Kingstree line and the risk area changes Tuesday morning (right image) into extreme northeast portions of SC and most of southeast NC coastal areas of the Carolinas

# Potential Storm Surge Impacts

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## Storm Surge Threat



There is a moderate storm surge threat from Cape Fear south toward the northeast SC coast

- Areas of storm surge inundation enhanced by breaking waves are possible along barrier islands in the moderate threat area
- Potential impacts include: some flooding of coastal roads and beach access points, beach erosion, some damage to at risk structures especially in areas with weakened dunes, damage to beach ramps and stairways

# Storm Surge

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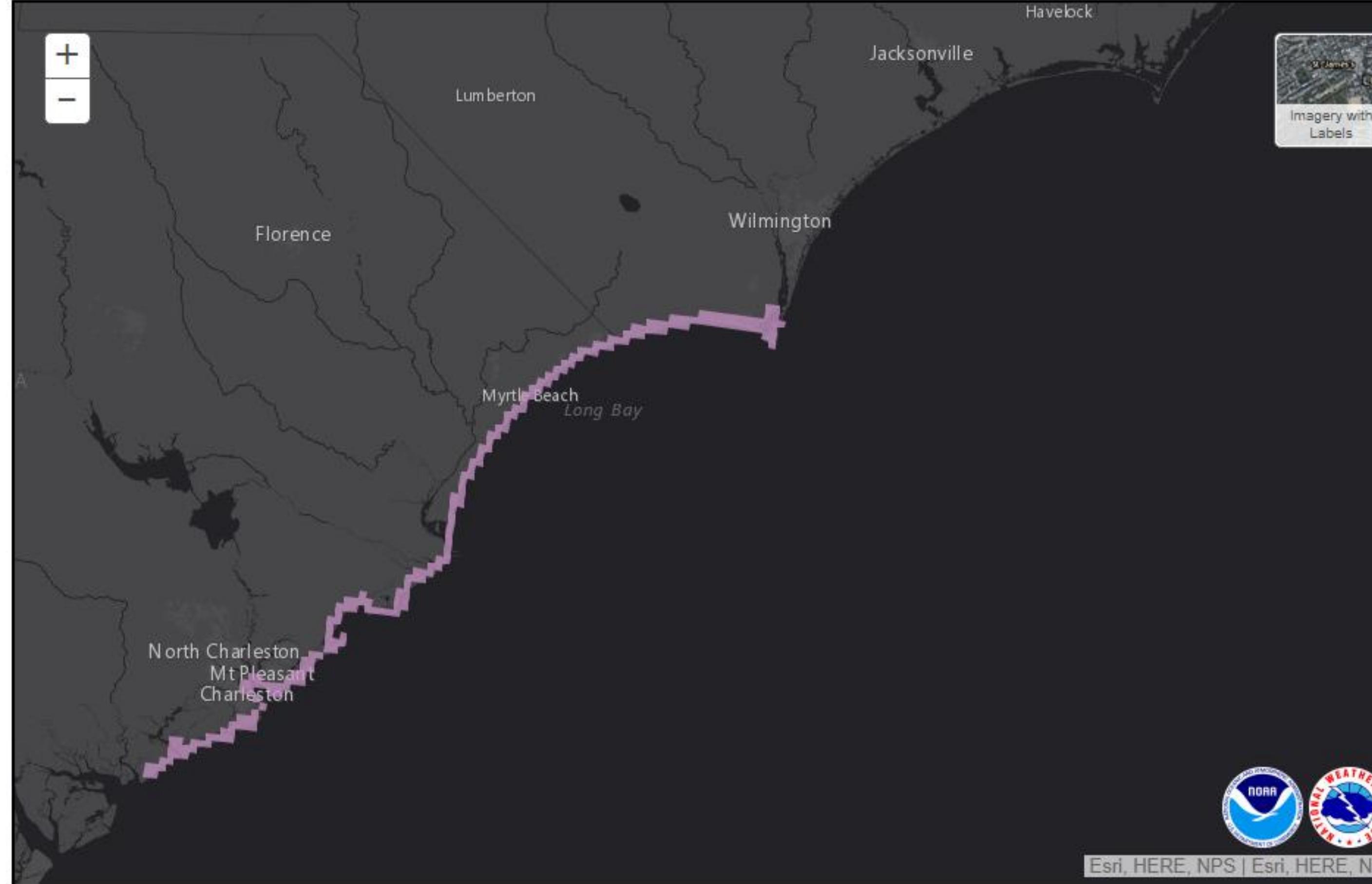


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### Storm Surge Watch/Warning Graphic\*

Tropical Storm Isaias  
Advisory 021 Issued: 5:00 AM EDT Sun Aug 2



0 15 30mi

Storm Surge Warning  
Storm Surge Watch

8/2/2020 7:38 AM

[www.weather.gov/ilm](http://www.weather.gov/ilm)

- Storm Surge Watch in effect from Cape Fear southward along the northeast SC coast
- Possibility/danger of life-threatening inundation from storm surge somewhere in the watch area within 48 hours

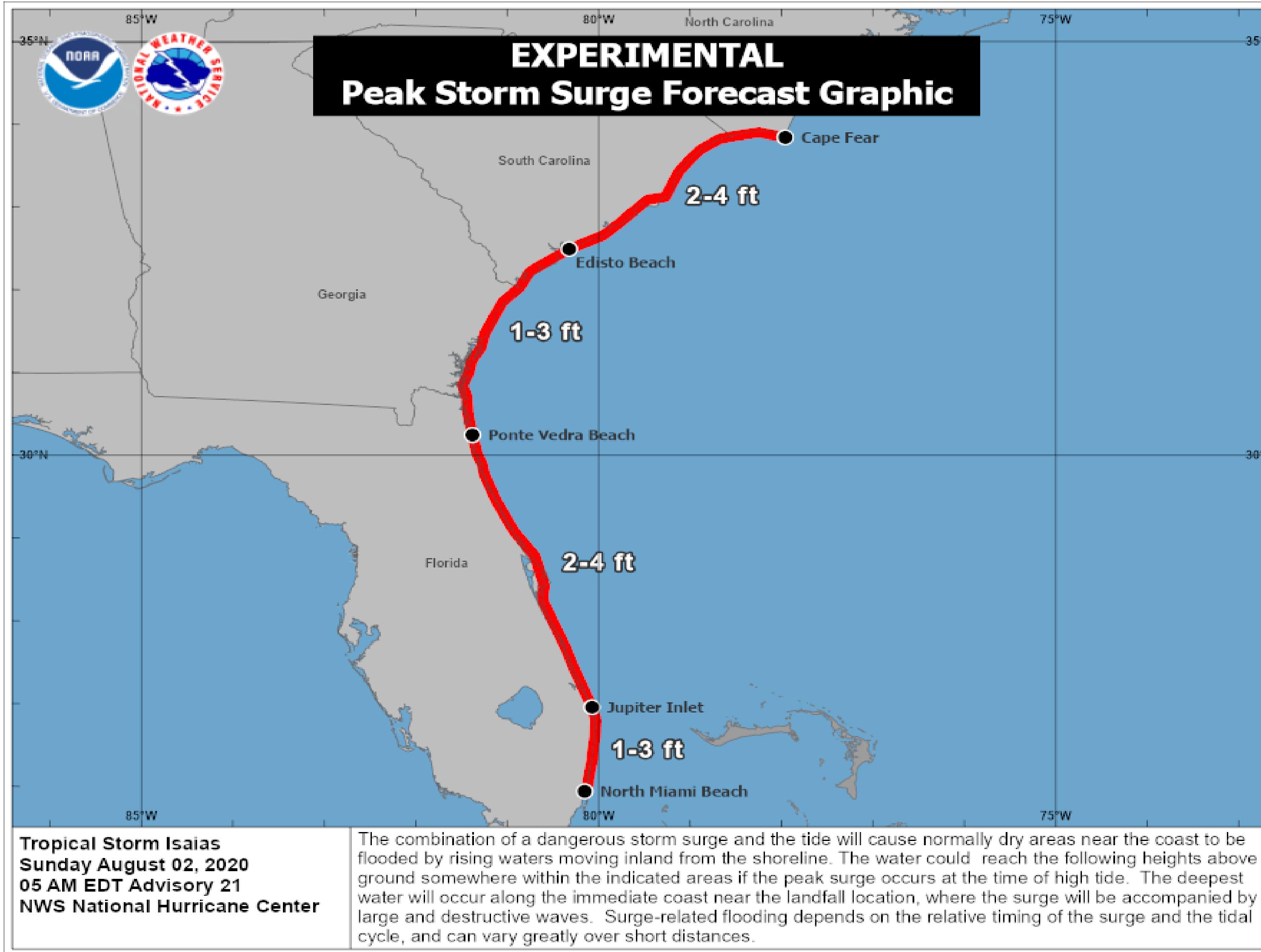
# Storm Surge

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- Potential storm surge of 2-4 ft from Cape Fear southward to the northeast SC coast

# Marine/Coastal Hazards

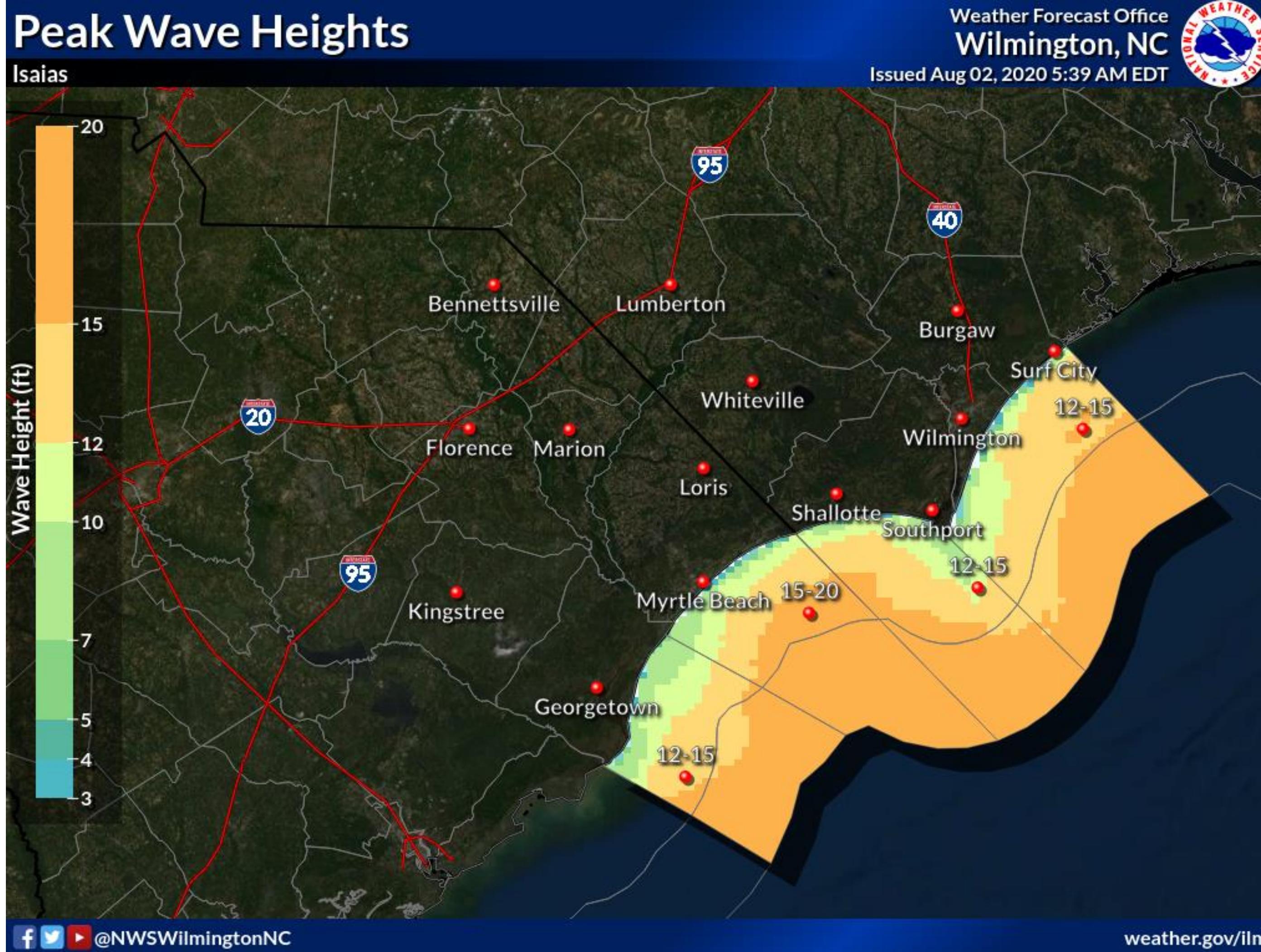
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## Peak Wave Heights



- Dangerous rip currents are expected today through Tuesday
- Hazardous winds/seas are expected to develop for the adjacent coastal waters with the worst conditions Monday night into Tuesday morning
- Maritime conditions are expected to improve by Tuesday night into Wednesday

# Key Take-Aways

## Tropical Storm Isaias

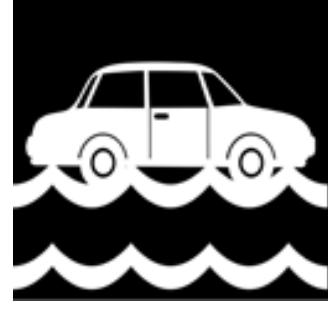


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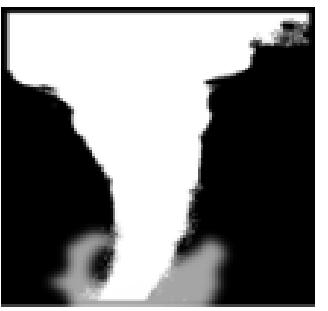
Tropical storm force winds are possible by Monday night for northeast SC and Monday night into Tuesday morning for southeast NC. The gusty winds could cause downed trees/limbs and some power outages.



Some storm surge inundation and beach erosion are possible, especially with high tide Monday night from Cape Fear southward to northeast SC coastal areas.



Heavy rainfall is possible along with some flooding of poor drainage and flood prone areas. Currently, most areas are expected to receive 4-6" with some locally higher amounts possible.



Some tornadoes are possible - especially Monday afternoon/night into Tuesday morning.



Hazardous maritime conditions will develop later this weekend and especially during Monday night across adjacent coastal waters. In addition, strong rip currents are possible today through Tuesday.



The potential for some minor river flooding will exist, but the outlook could change as the forecast rainfall is adjusted.



*The Next Briefing for northeast SC and southeast NC:  
1130 AM Sunday August 2, 2020  
Method: Email*



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