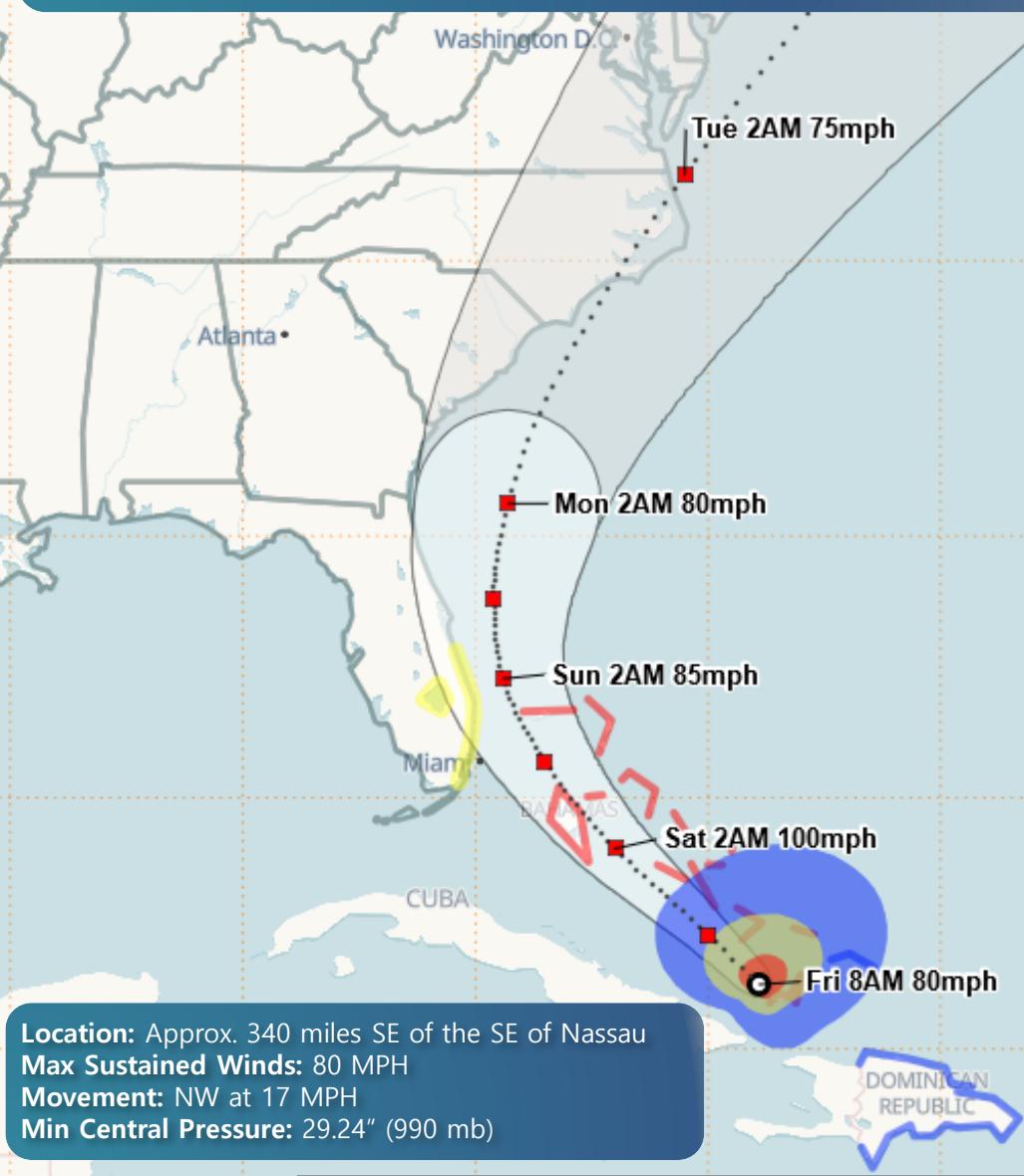


# HURRICANE ISAIAS

National Hurricane Center

(July 31, 2020 – 8AM)



- ✓ The threat of tropical storm force winds continues to increase, especially along the coast. There is the potential for hurricane force winds.
- ✓ Dangerous rip currents and elevated surf are likely along the NC coast beginning this afternoon and into early next week.
- ✓ Continue to monitor the forecast over the coming days as confidence in the long-term forecast track & intensity remains low.
- ✓ The NHC Track Forecast Cone is not an impact cone. Impacts can be felt far from the center of the storm!

**Location:** Approx. 340 miles SE of the SE of Nassau

**Max Sustained Winds:** 80 MPH

**Movement:** NW at 17 MPH

**Min Central Pressure:** 29.24" (990 mb)

Sustained Wind Speed: ■ tropical storm  $\geq$  34kt/39mph ■ strong tropical storm  $\geq$  50kt/58mph ■ hurricane  $\geq$  64kt/74mph

Wind Watches: ■ hurricane ■ tropical storm Wind Warnings: ■ hurricane ■ tropical storm

# TIMELINE & KEY TAKEAWAYS

July 31, 2020 – 5AM



SUN NIGHT	MON	MON NIGHT	TUE
<p>Rain and thunderstorm activity will increase in the SE SUN night. Breezy conditions will move in overnight as Isaias approaches the region. Locally heavy rain could also develop across western NC.</p>	<p>Rain and wind will likely increase MON and continue into MON night. The threat of tropical storm force winds will spread northward across eastern NC during the day. There is the potential for storm surge inundation along the coast and sounds/rivers. There could be an elevated threat of tornadoes depending on the track.</p>		<p>Conditions will likely improve during the day Tuesday, however there remains uncertainty in the exact timing of the system.</p>

## Hurricane Isaias

- While confidence in the forecast track has increased slightly, confidence remains very low for both timing and intensity.
- The threat for tropical storm force winds continues to increase for eastern NC, especially along the Coast Monday into early Tuesday. There is the potential for hurricane force winds.
- The location of the heaviest rain will be dependent on the final track, but generally 1-4" of rain is currently expected Sunday night through Tuesday across eastern NC. Localized higher amounts and isolated flooding will be possible.
- High risk for rip currents are expected along the Coast Friday afternoon into early next week.

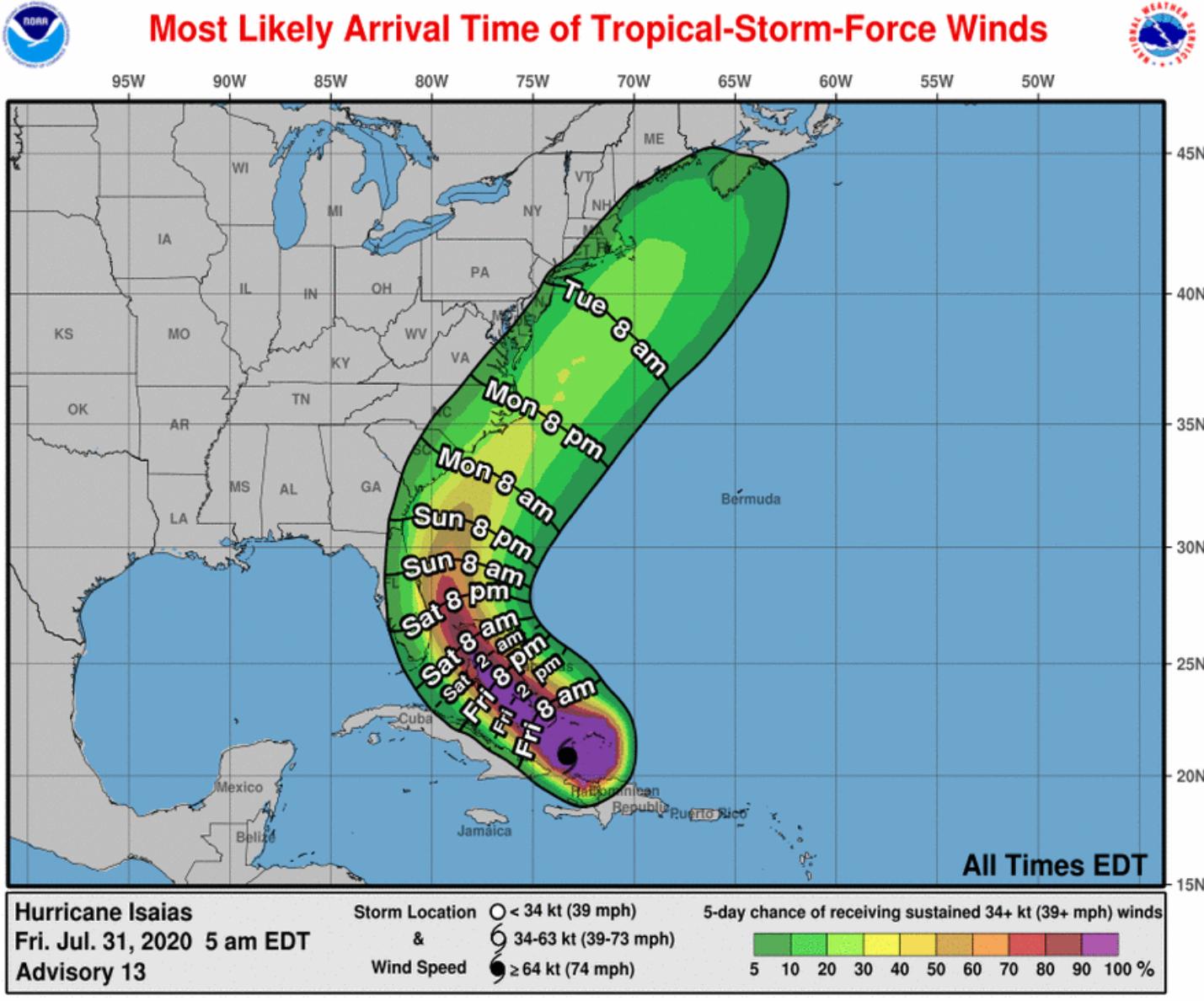
# MOST LIKELY ARRIVAL TIME OF TSF WINDS

## National Hurricane Center

(July 31, 2020 – 5AM)



### Most Likely Arrival Time of Tropical-Storm-Force Winds



While currently the most likely arrival time of tropical-storm-force winds across southeastern NC is Monday morning, the earliest reasonable arrival time of tropical-storm-force winds across southeastern NC is Sunday night.

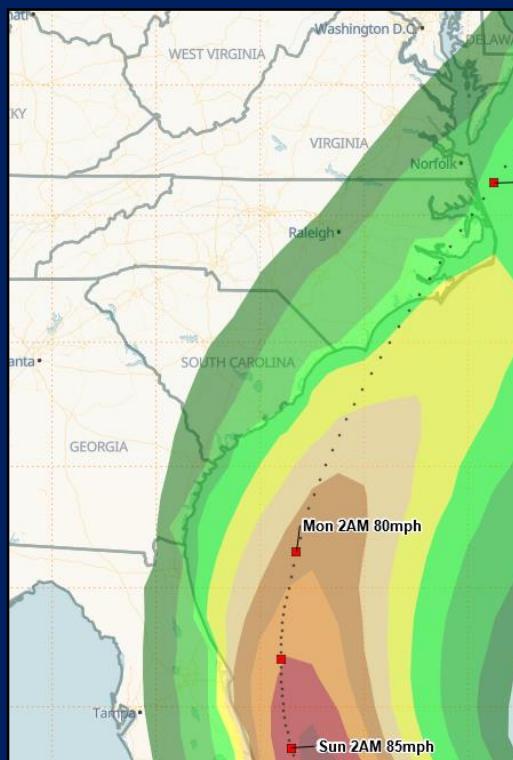
# WIND SPEED PROBABILITIES

National Hurricane Center

(July 31, 2020 – 5AM)



**Tropical Storm Force**  
 $\geq 39\text{ mph}/34\text{ kt}$



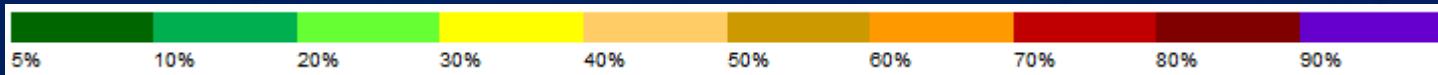
**Strong Tropical Storm Force**  
 $\geq 58\text{ mph}/50\text{ kt}$



**Hurricane Force**  
 $\geq 74\text{ mph}/64\text{ kt}$



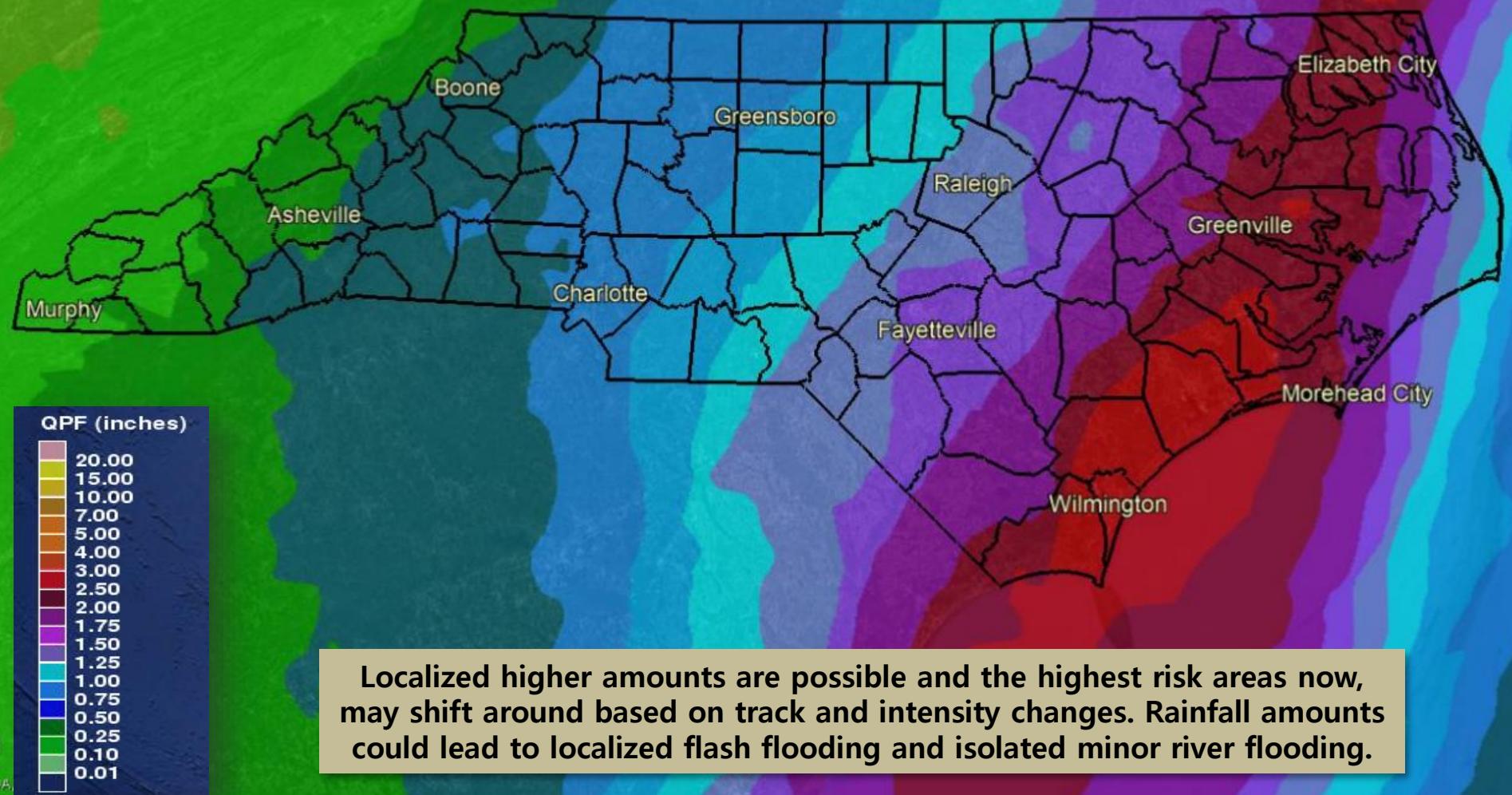
Wind Speed Probabilities for the 120 hours from 2AM Friday to 2AM Wednesday



# MON-TUE RAINFALL FORECAST

8AM August 3, 2020 – 8AM August 5, 2020

(As of 5AM Fri)



# HAZARDS SUMMARY

July 31, 2020 – 5AM

HURRICANE ISAIAS



HAZARD	DETAILS	IMPACTS	THREAT
Storm Surge	TBD	Storm surge inundation is possible late Sunday night through early Tuesday along the Coast and local sounds/rivers.	Low
Inland Flooding	The location of the heaviest rain will be dependent on the final track. Generally, 1-4" of rain is currently expected across eastern NC, with locally higher totals possible near the coast late Sunday night – Tuesday.	Localized heavy rainfall leading to flash flooding is possible Sunday night and into early Tuesday. Rainfall totals will continue to be refined over the coming days. Early next week, isolated minor river flooding will be possible.	Low
Damaging Winds	Tropical storm force winds could arrive across SE NC as early as Sunday night but the most likely arrival time will be Monday.	The threat for tropical storm force winds is increasing for NC, especially along the Coast. There is the potential for hurricane force winds.	Moderate
Tornadoes	A few tornadoes are possible late Sunday night – Monday night across eastern NC. Tornadoes in tropical systems are typically short-lived and weak.		Low
Marine & Coastal	High risk for rip currents are expected along the Coast Friday afternoon into early next week.		Moderate

Threat Levels:

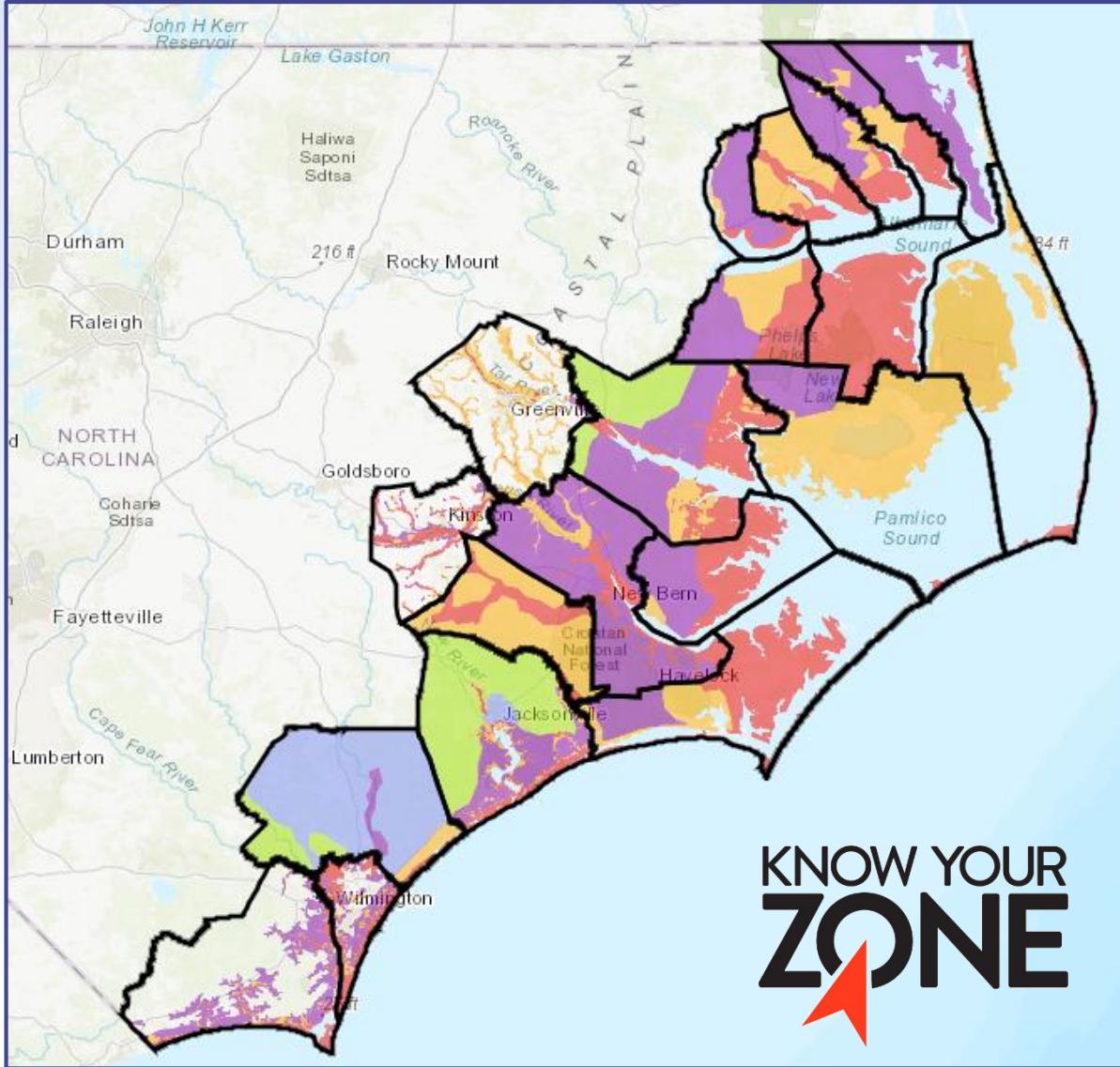
None

Low

Moderate

High

Extreme



# North Carolina KNOW YOUR ZONE

Interactive Lookup Tool

Know Your Zone FAQ

Education Resources

Social Media Graphics

NC Hurricane Guide

To find your zone, visit  
**KNOWYOURZONE.NC.GOV**  
**CONOZCASUZONA.NC.GOV**

NC Hurricane Preparedness



# Trusted Sources of Information



Official source for hurricane forecasts and the issuance of hurricane watches and warnings



Tune in to your trusted local news source



Access mobile.weather.gov and get Wireless Emergency Alerts



Official source for information regarding expected impacts from the storm for your area



Follow trusted partners and share critical information with friends and family



Receive forecast information and news on your NOAA Weather Radio

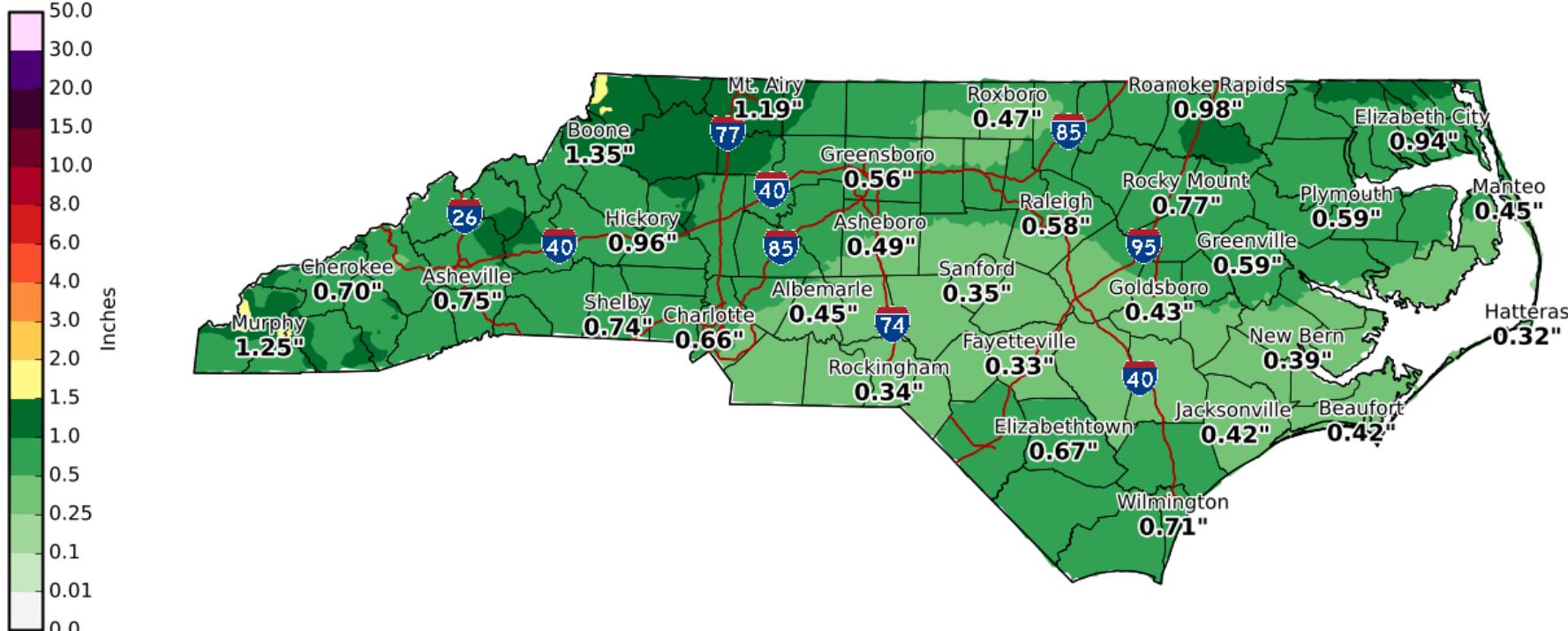


## Hurricane Preparedness



# 72-HOUR RAINFALL FORECAST

5AM Friday, July 31, 2020 – 5AM Monday, August 3, 2020



National Weather Service  
North Carolina NWS Offices  
07/31/2020 05:11 AM EDT

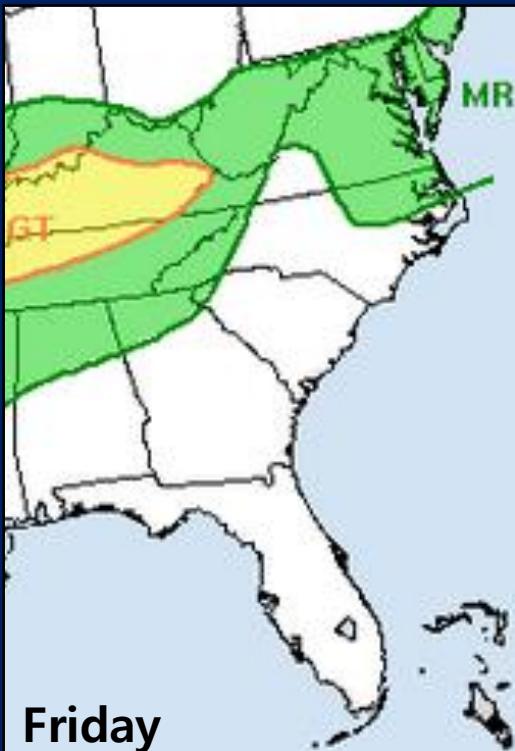
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[weather.gov/rah/nc](http://weather.gov/rah/nc)

Scattered showers and storms will continue over the next several days, peaking each afternoon & evening. Locally higher rainfall amounts are possible as storms could contain torrential downpours, resulting in isolated flash flooding. Greatest rain coverage will be on Sunday across western NC. Additional rainfall amounts early next week will be largely dependent on the track of Isaias.

# FLASH FLOODING POTENTIAL

July 31, 2020 – 5AM

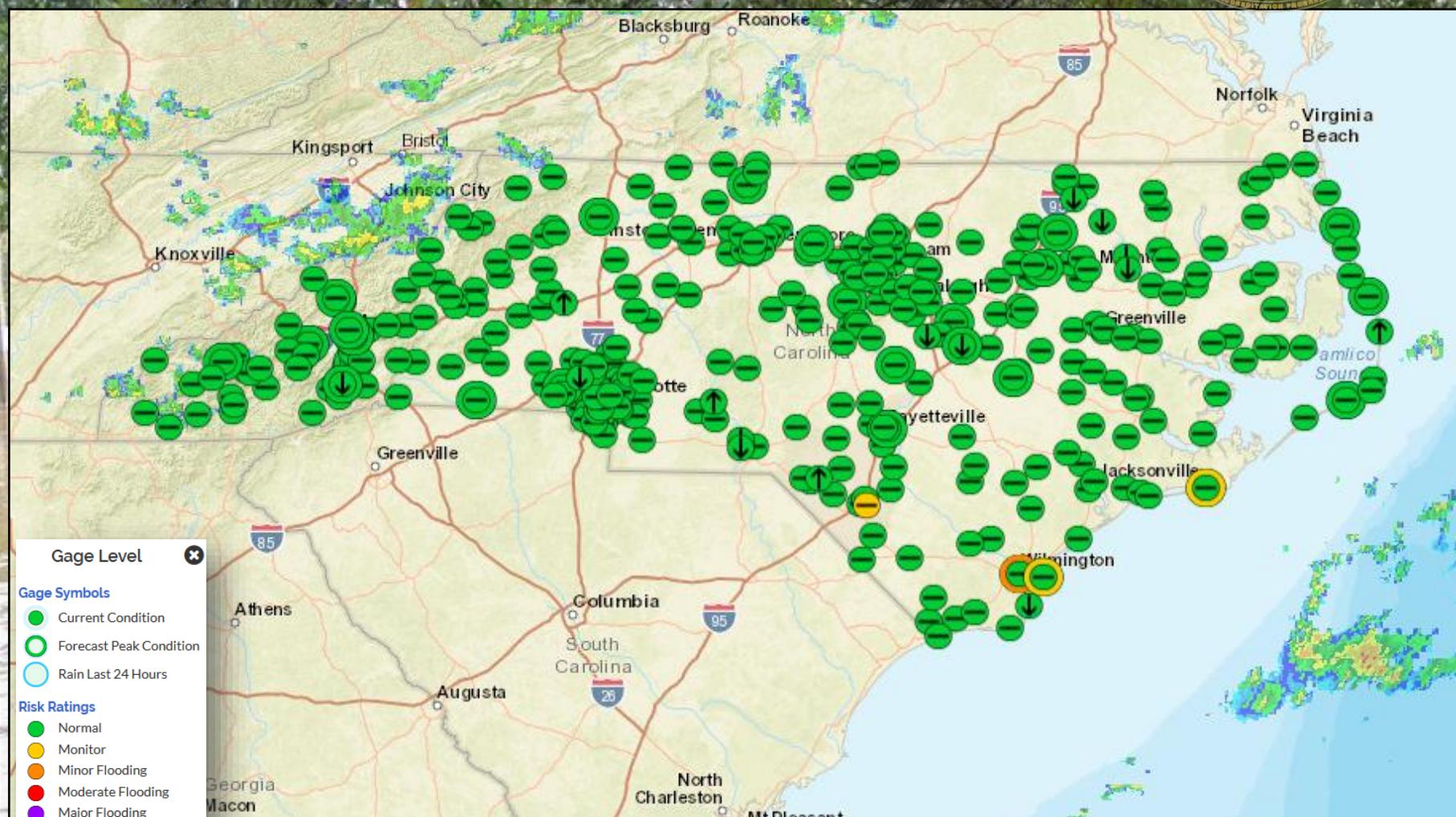
NOAA/NWS/NCEP/WPC



No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
<a href="http://www.wpc.ncep.noaa.gov">@NWSWPC</a>	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
<a href="#">Flash flooding near me?</a>	<a href="#">Flash Flooding</a>	<a href="#">NO Flash Flooding</a>		

# RADAR & RIVER FLOOD FORECAST

July 31, 2020 – 8AM



## Trend

- ↑ Rising
- ↓ Falling
- ▬ Constant

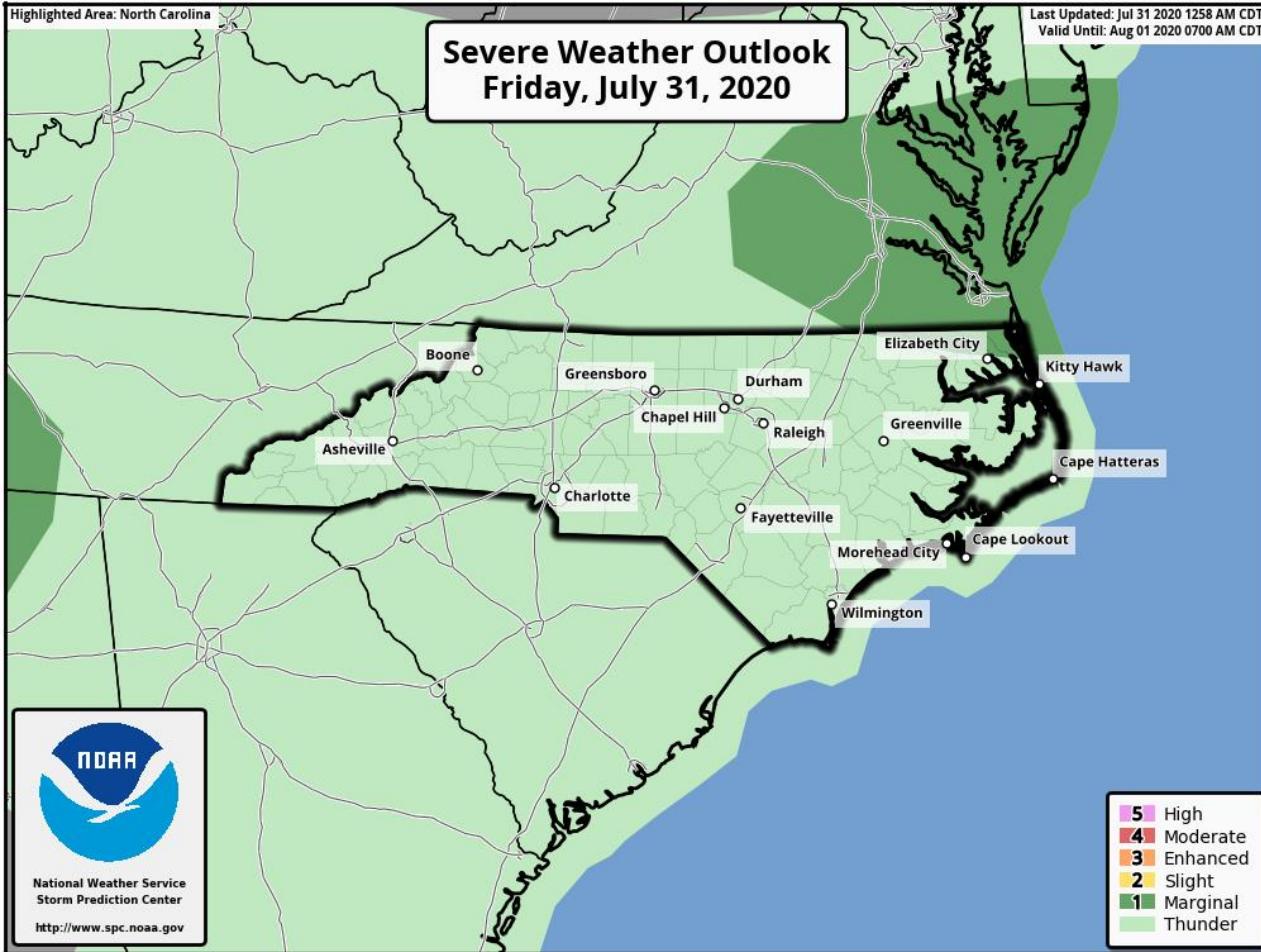


# FIMAN

Flood Inundation Mapping  
and Alert Network

# FRIDAY'S SEVERE STORM THREAT

STORM PREDICTION CENTER (VALID 8AM 7/31/20 – 8AM 8/1/20)



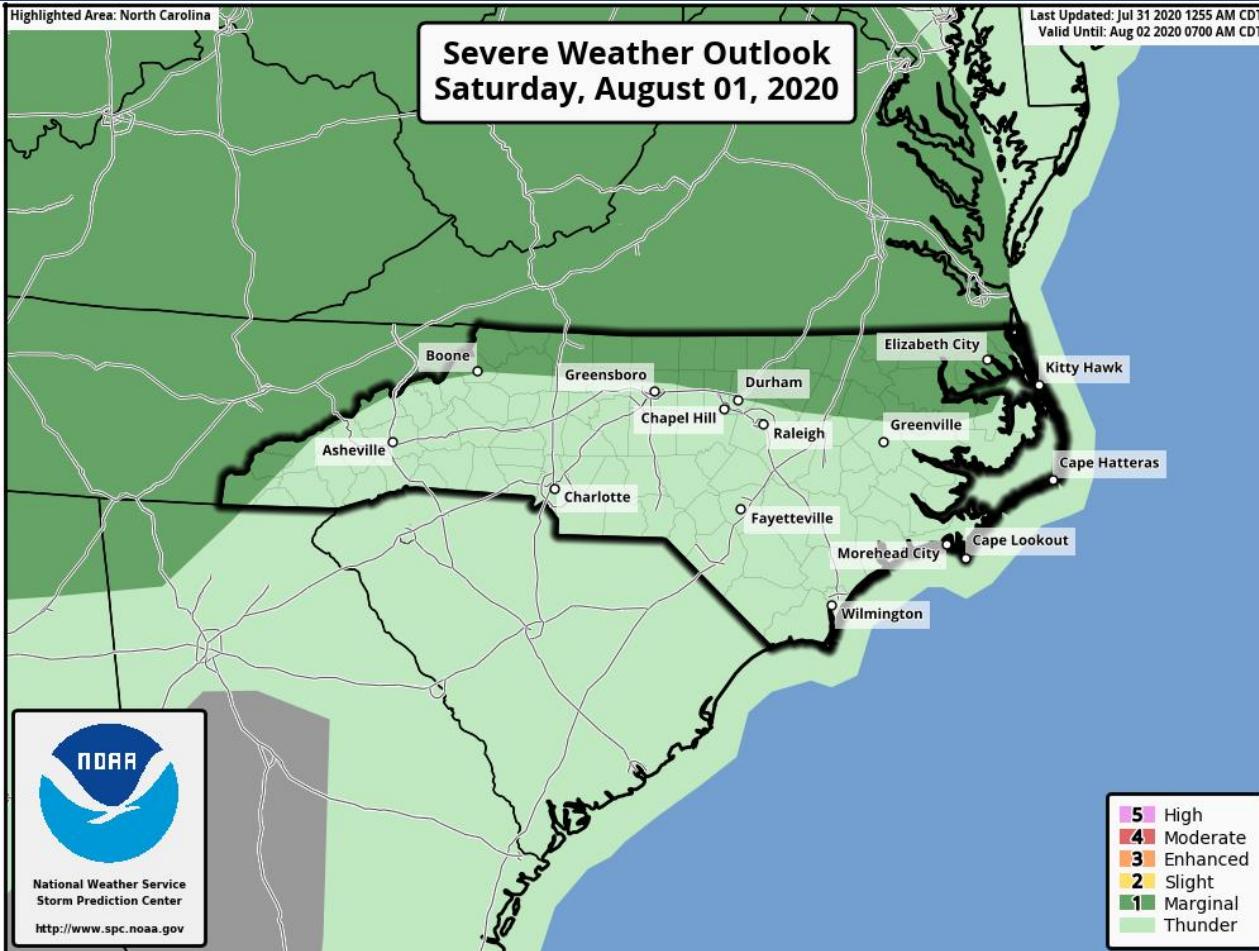
THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible
Lightning/flooding threats exist with all thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible
• Winds to 40 mph • Small hail	• Winds 40-60 mph • Hail up to 1" • Low tornado risk	• One or two tornadoes • Reports of strong winds/wind damage • Hail ~1", isolated 2"
3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
• A few tornadoes • Several reports of wind damage • Damaging hail, 1 - 2"	• Strong tornadoes • Widespread wind damage • Desctructive hail, 2" +	• Tornado outbreak • Derecho

Isolated Severe Storms Possible Later Today Across NE NC:

- ✓ Damaging Wind Gusts
- ✓ Heavy Downpours and Frequent Lightning Will Be Possible Statewide

# SATURDAY'S SEVERE STORM THREAT

STORM PREDICTION CENTER (VALID 8AM 8/1/20 – 8AM 8/2/20)



THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible
<ul style="list-style-type: none"> <li>Winds to 40 mph</li> <li>Small hail</li> </ul>	<ul style="list-style-type: none"> <li>Winds 40-60 mph</li> <li>Hail up to 1"</li> <li>Low tornado risk</li> </ul>	<ul style="list-style-type: none"> <li>One or two tornadoes</li> <li>Reports of strong winds/wind damage</li> <li>Hail ~1", isolated 2"</li> </ul>
3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
<ul style="list-style-type: none"> <li>A few tornadoes</li> <li>Several reports of wind damage</li> <li>Damaging hail, 1 - 2"</li> </ul>	<ul style="list-style-type: none"> <li>Strong tornadoes</li> <li>Widespread wind damage</li> <li>Desctructive hail, 2" +</li> </ul>	<ul style="list-style-type: none"> <li>Tornado outbreak</li> <li>Derecho</li> </ul>

Isolated Severe Storms Possible Saturday Afternoon & Evening:

- ✓ Damaging Wind Gusts
- ✓ Heavy Downpours and Frequent Lightning Will Be Possible Statewide

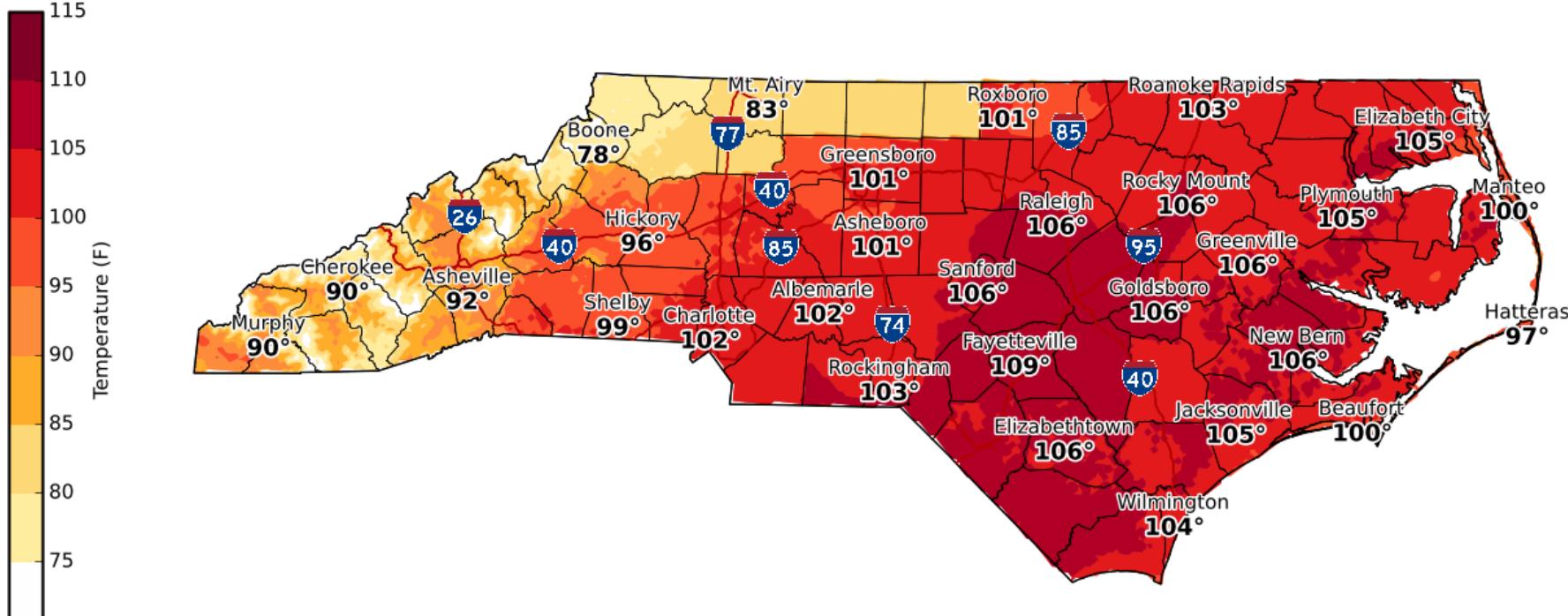
# MAX HEAT INDEX FORECAST

Friday, July 31, 2020



## Day 1 Max Heat Index

Valid: 07/31/2020 06:00 AM - 08/01/2020 06:00 AM EDT



National Weather Service  
North Carolina NWS Offices  
07/31/2020 06:10 AM EDT

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[weather.gov/rah/nc](http://weather.gov/rah/nc)

A Heat Advisory is in effect for much of central and eastern NC this afternoon and evening. Be sure to follow heat safety tips to limit the risk of heat illness.

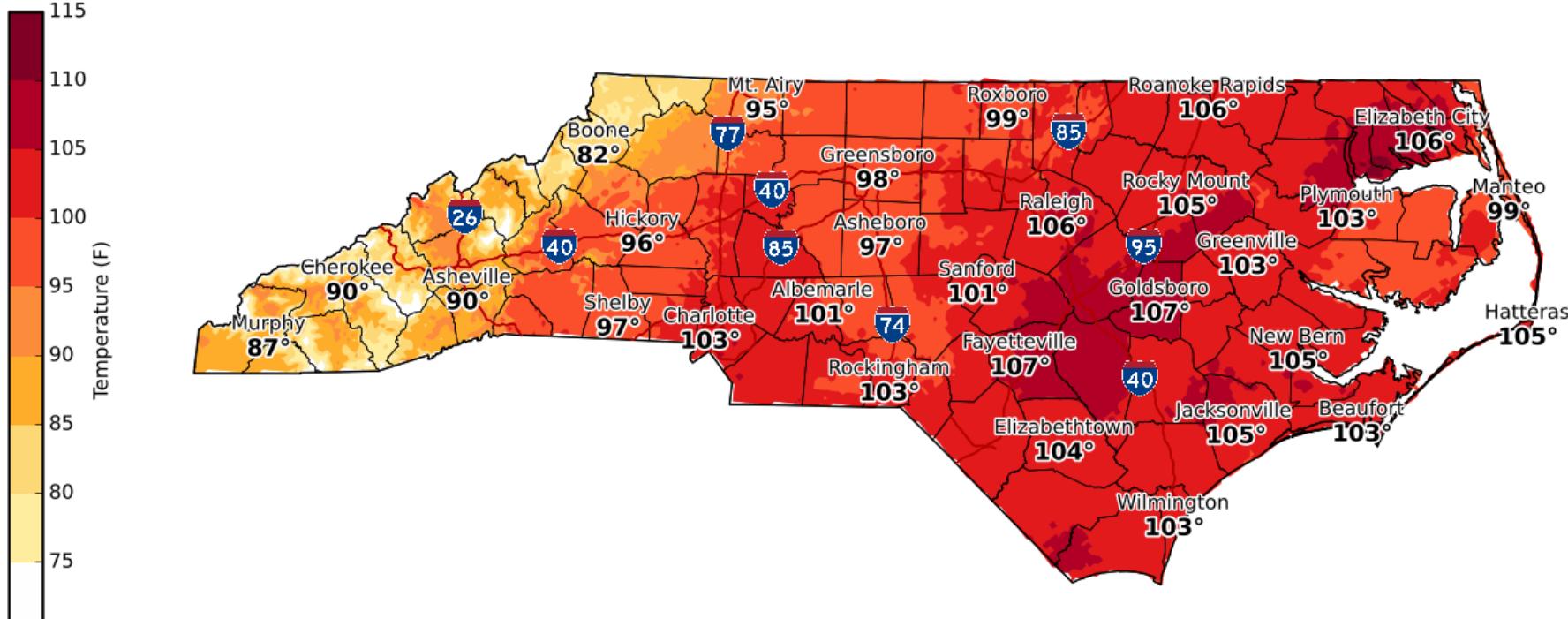
# MAX HEAT INDEX FORECAST

Saturday, August 1, 2020



## Day 2 Max Heat Index

Valid: 08/01/2020 06:00 AM - 08/02/2020 06:00 AM EDT



National Weather Service  
North Carolina NWS Offices  
07/31/2020 06:10 AM EDT

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[weather.gov/rah/nc](http://weather.gov/rah/nc)

Heat index values over 100 degrees will likely continue this weekend.  
Be sure to follow heat safety tips to limit the risk of heat illness.

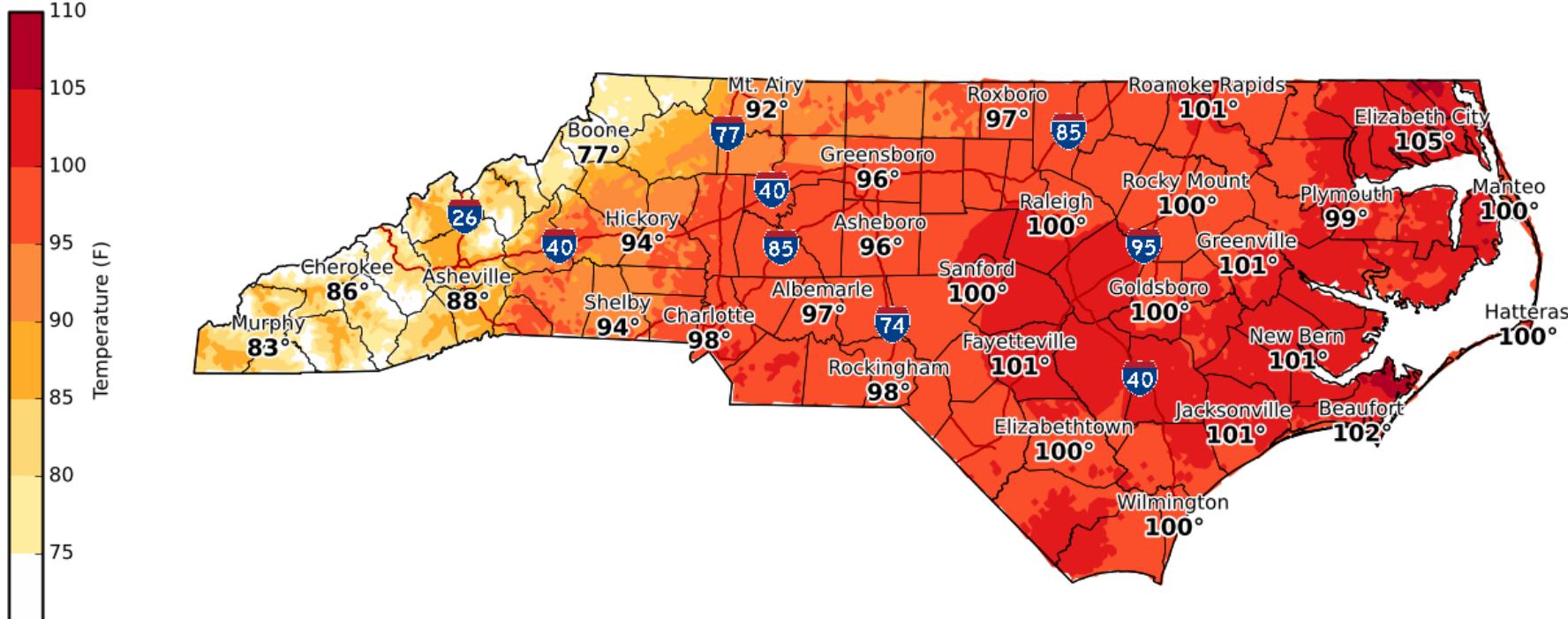
# MAX HEAT INDEX FORECAST

Sunday, August 2, 2020



## Day 3 Max Heat Index

Valid: 08/02/2020 06:00 AM - 08/03/2020 06:00 AM EDT



National Weather Service  
North Carolina NWS Offices  
07/31/2020 06:11 AM EDT

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Heat index values over 100 degrees will likely continue this weekend.  
Be sure to follow heat safety tips to limit the risk of heat illness.