



TROPICAL STORM ISAIAS BRIEFING

6:30 AM ET

Monday, August 3, 2020

Prepared by: WFO Morehead City, NC

What has changed: Increased Storm Surge Slightly.

Tropical Storm Warnings and Storm Surge Watch remain in effect.

Next Briefing: Monday August 3, by 630 pm EDT

Disclaimer: The information contained within is time-sensitive. Do not use after 5:00pm EDT Monday.

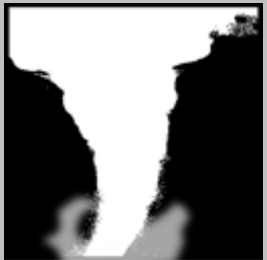




Situation Overview

Tropical Storm Isaias



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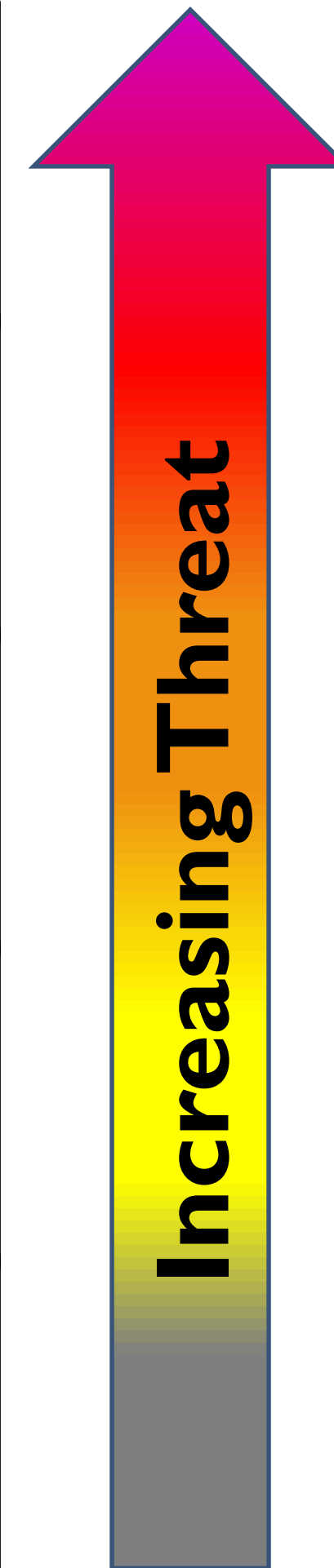
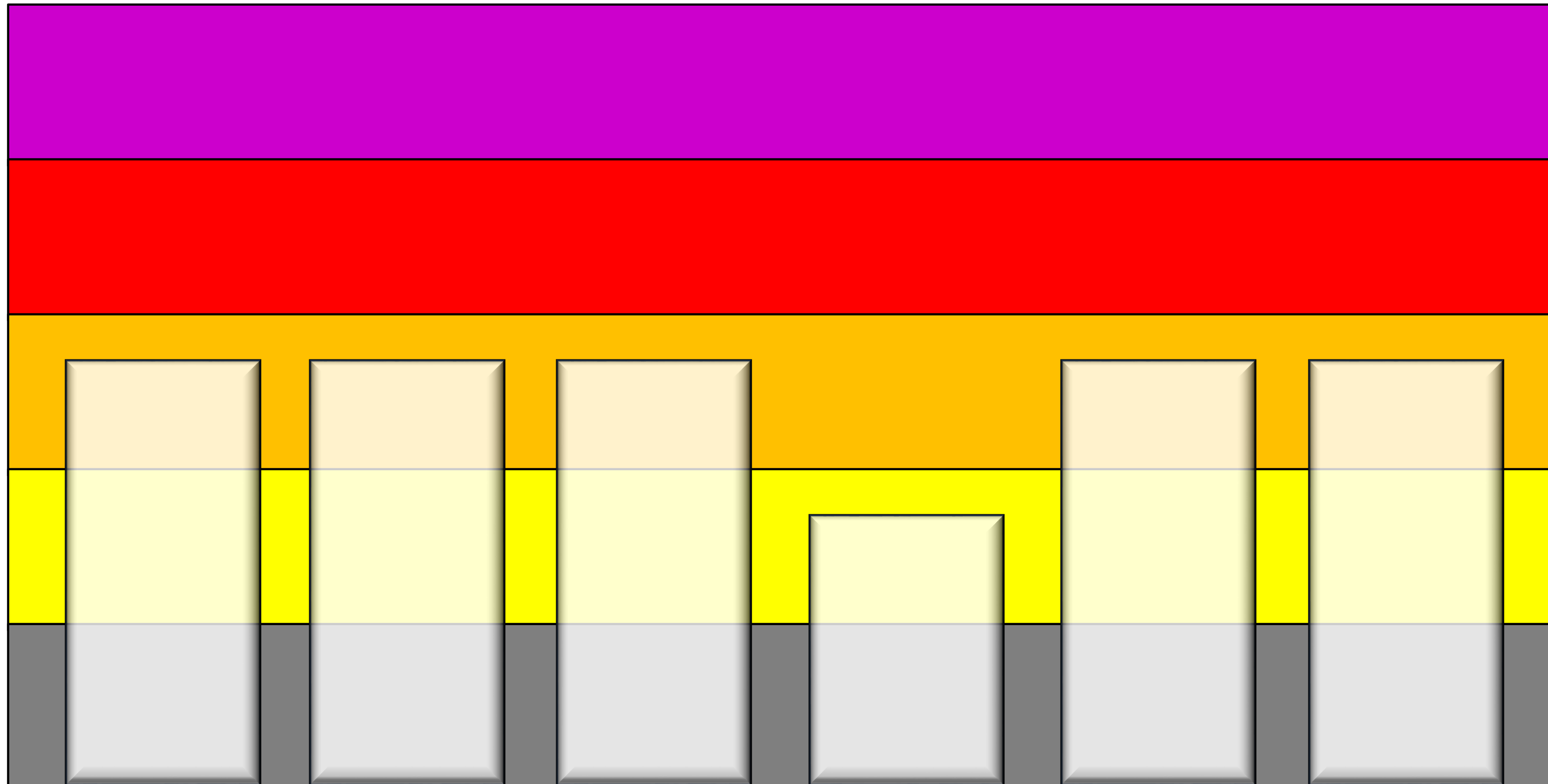
Hazard	Impacts	Location	Timing
Marine 	High risk for rip currents. Dangerous marine conditions	All coastal and nearshore waters.	Rip currents through early next week. Marine conditions through Tuesday.
Tornado 	Enhanced areas of damage, potentially well away from and ahead of the storm's center. Short advanced notice.	Anywhere in Eastern North Carolina.	This evening through early Tuesday.
Flooding Rain 	Potential for flash flooding. Minor river flooding possible.	Anywhere in Eastern North Carolina but especially along and west of Highway 17.	This evening through Tuesday for flash flooding. Late in the week for river flooding.
Wind 	Potential for strong tropical storm force winds. Downed trees, power outages possible.	Anywhere in Eastern North Carolina Higher winds along and west of Highway 17.	This evening through Tuesday.
Surge 	There is the potential for storm surge inundation. Generally 2 to 4 feet above normally dry ground.	Crystal Coast, Outer Banks Ocean Side especially Rodanthe south. Neuse, Pamlico, Pungo Rivers. Soundside especially north of Pea Island (Manteo, Kitty Hawk).	This evening through Tuesday.

Threat Levels

Tropical Storm Isaias



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For information on specific hazards in this area, please go to [weather.gov/mhx/tropical](https://www.weather.gov/mhx/tropical)

Wind

Surge

Rainfall/
Flash Flooding

River
Flooding

Tornadoes

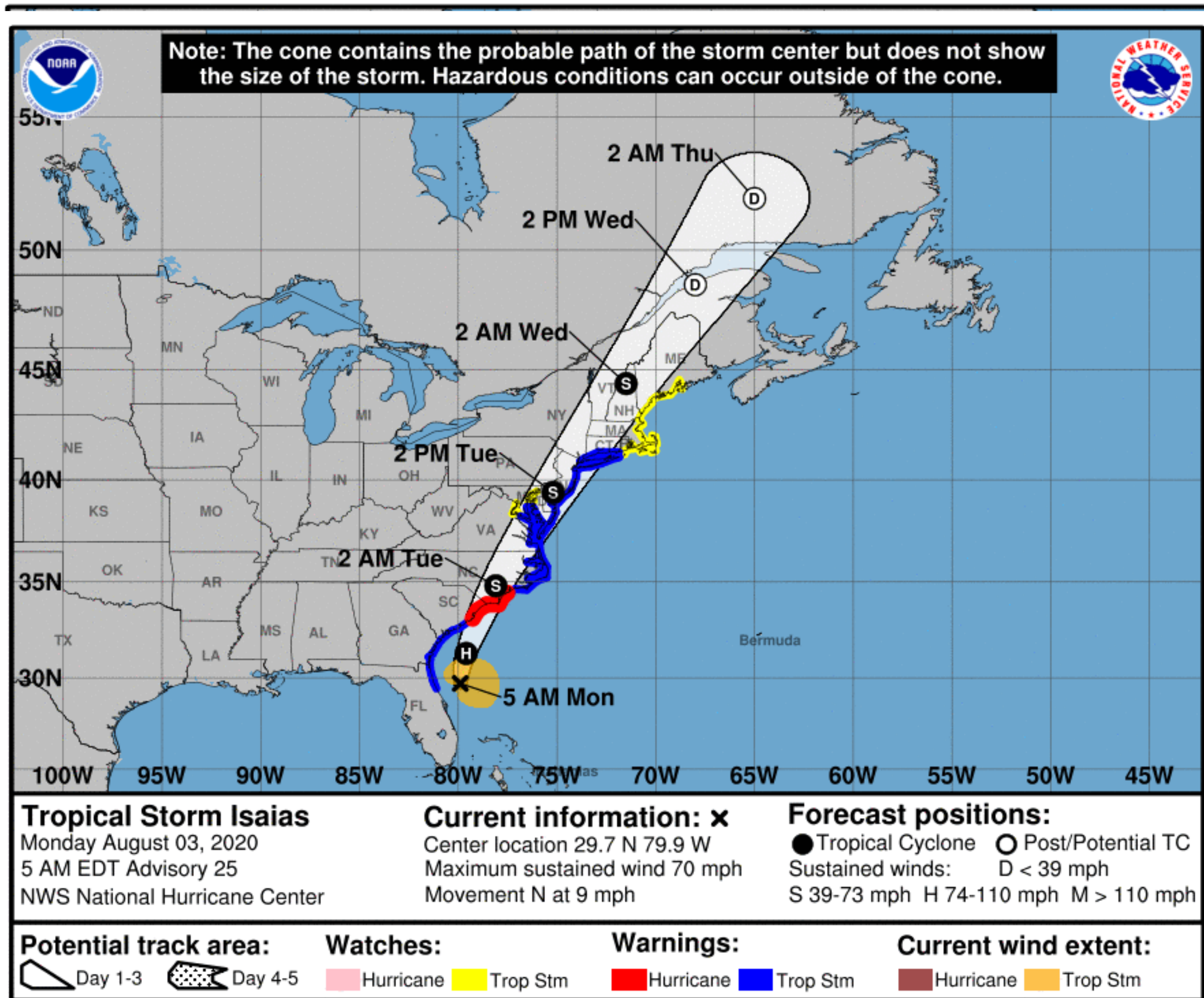
Marine

Situation Overview

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- Tropical Storm Isaias has current intensity of 70 mph.
- Increased **swell/rip current risk** through mid-week.
- Confidence is **high** at this time for **track, timing and intensity**. Small adjustments in track may result in minor shifts of highest impacts.
- **Now** is the time to finish up your **hurricane plan** and supplies. We are entering the most active portion of hurricane season. More info found at [weather.gov/mhx/hurricaneprep](https://www.weather.gov/mhx/hurricaneprep)

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

Tropical Storm Watches/Warnings



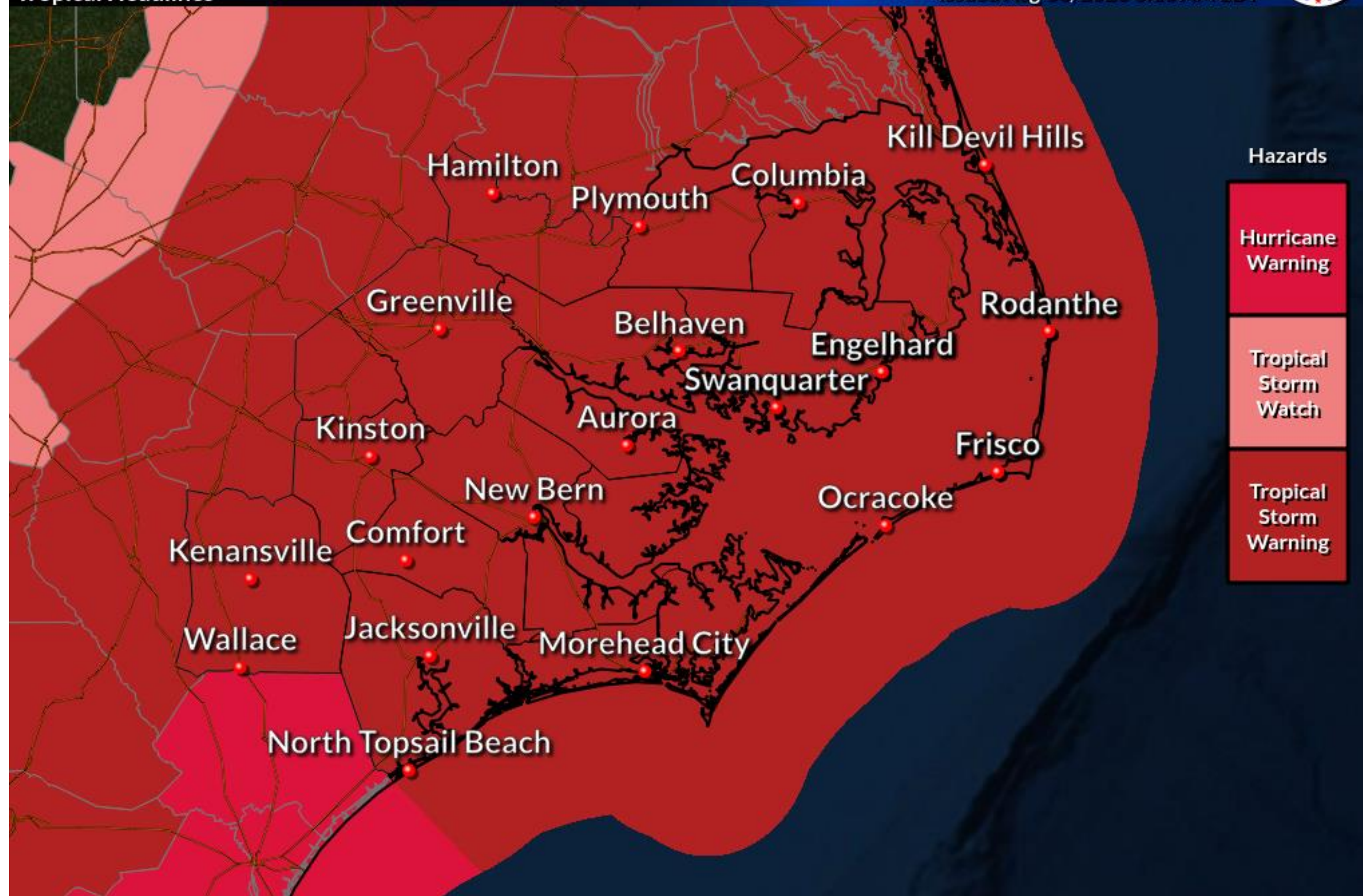
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Tropical Storm Isaias

Tropical Storm Isaias

Tropical Headlines

Weather Forecast Office
Newport/Morehead City, NC
Issued Aug 03, 2020 6:13 AM EDT



Hazards

- Hurricane Warning
- Tropical Storm Watch
- Tropical Storm Warning

- Tropical Storm Warning in effect for all of Eastern North Carolina.

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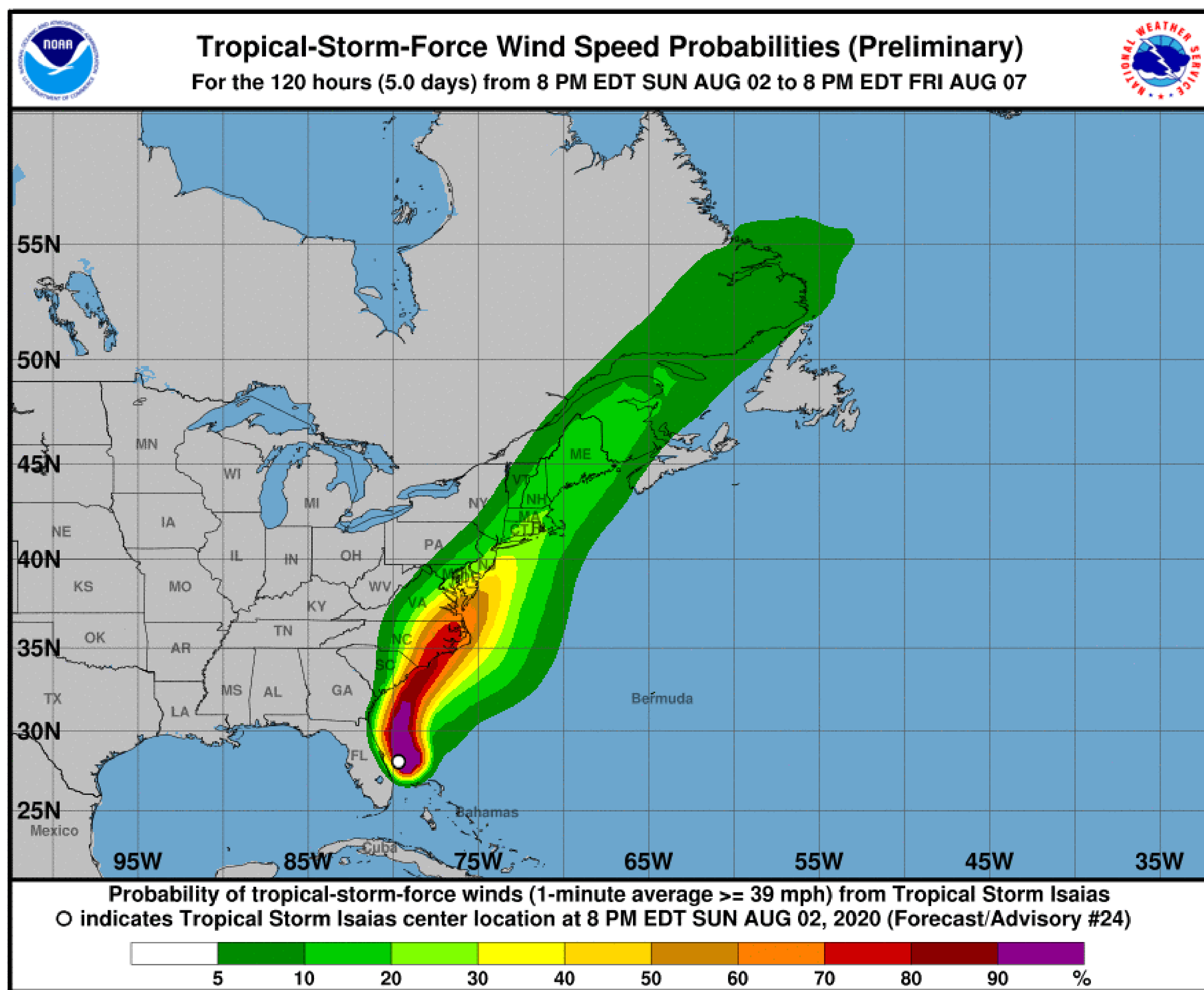
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TS Wind Speed Probabilities

Tropical Storm Isaias



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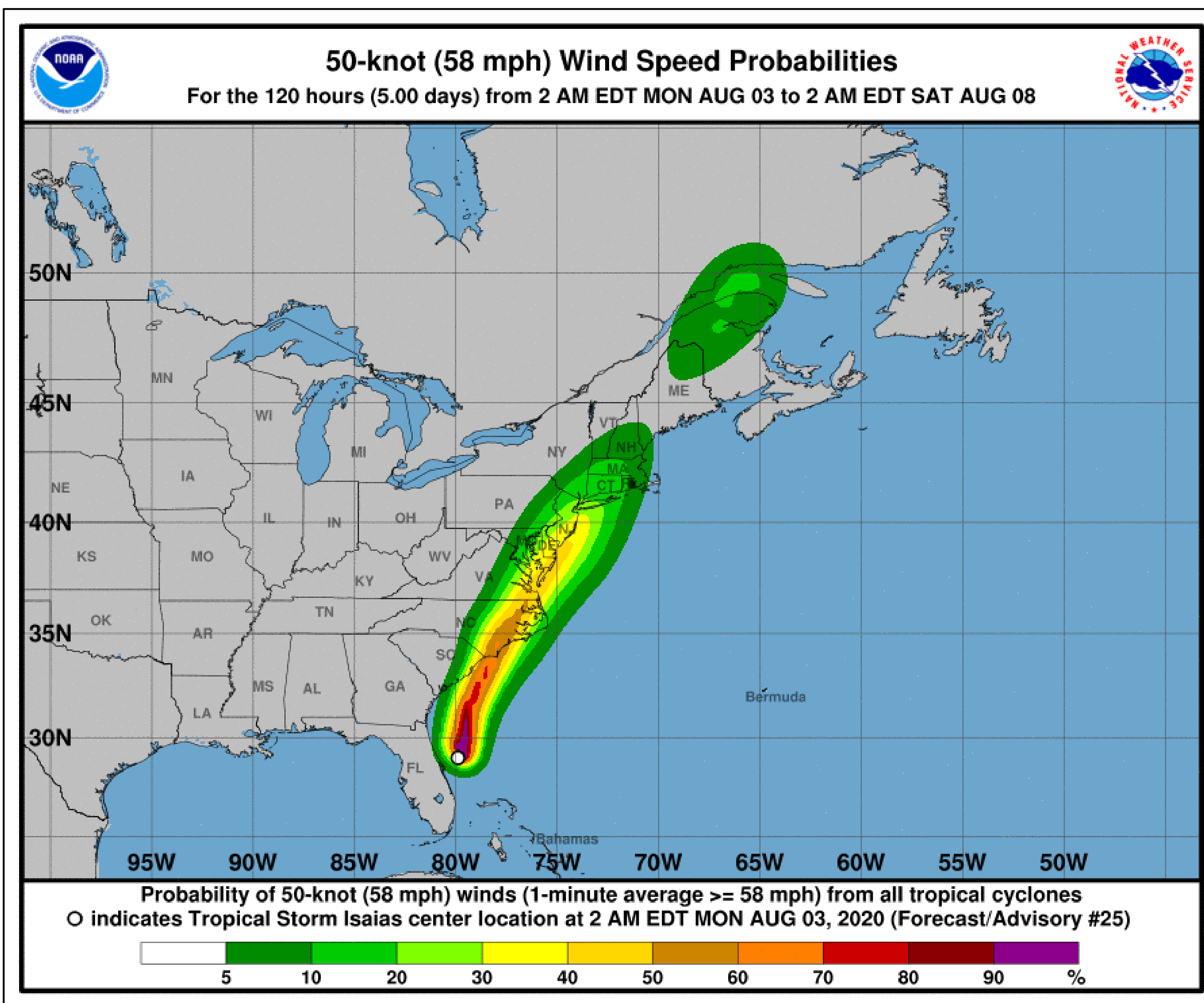
- The threat for tropical storm force winds continues to increase across eastern North Carolina.
- Probabilities are now above 70% for most of Eastern North Carolina.
- Tropical Storm conditions are expected to begin sometime tonight.

50kt Wind Speed Probabilities

Tropical Storm Isaias



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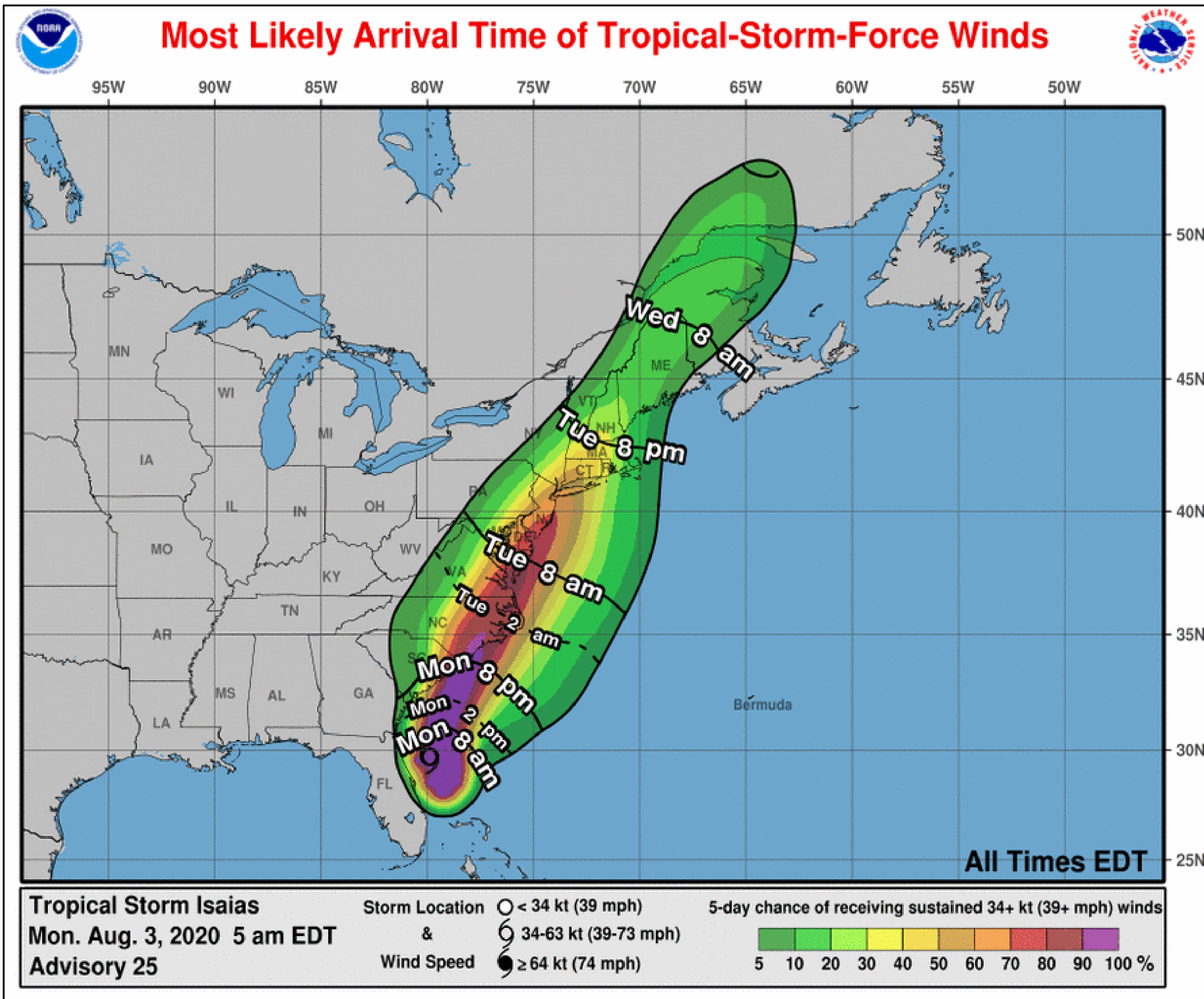
- The threat for 50 knot winds is increasing across portions of eastern NC, especially from Cape Lookout south and west.

Most Likely Time of Arrival

Tropical Storm Isaias



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- The most likely time of arrival of Tropical Storm Force Winds is tonight
- However, we could see Tropical Storm Force Winds as early as sometime Monday evening

Wind Threat

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Tropical Storm Isaias

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Wind Threat



Wind Threat
Potential for wind 39 to 57 mph
Potential for wind 58 to 73 mph

- There is the potential for strong tropical storm force winds across all of eastern North Carolina.
- Some damage to roofing and siding materials.
- Large trees snapped or uprooted.

Maximum Sustained Wind

Tropical Storm Isaias

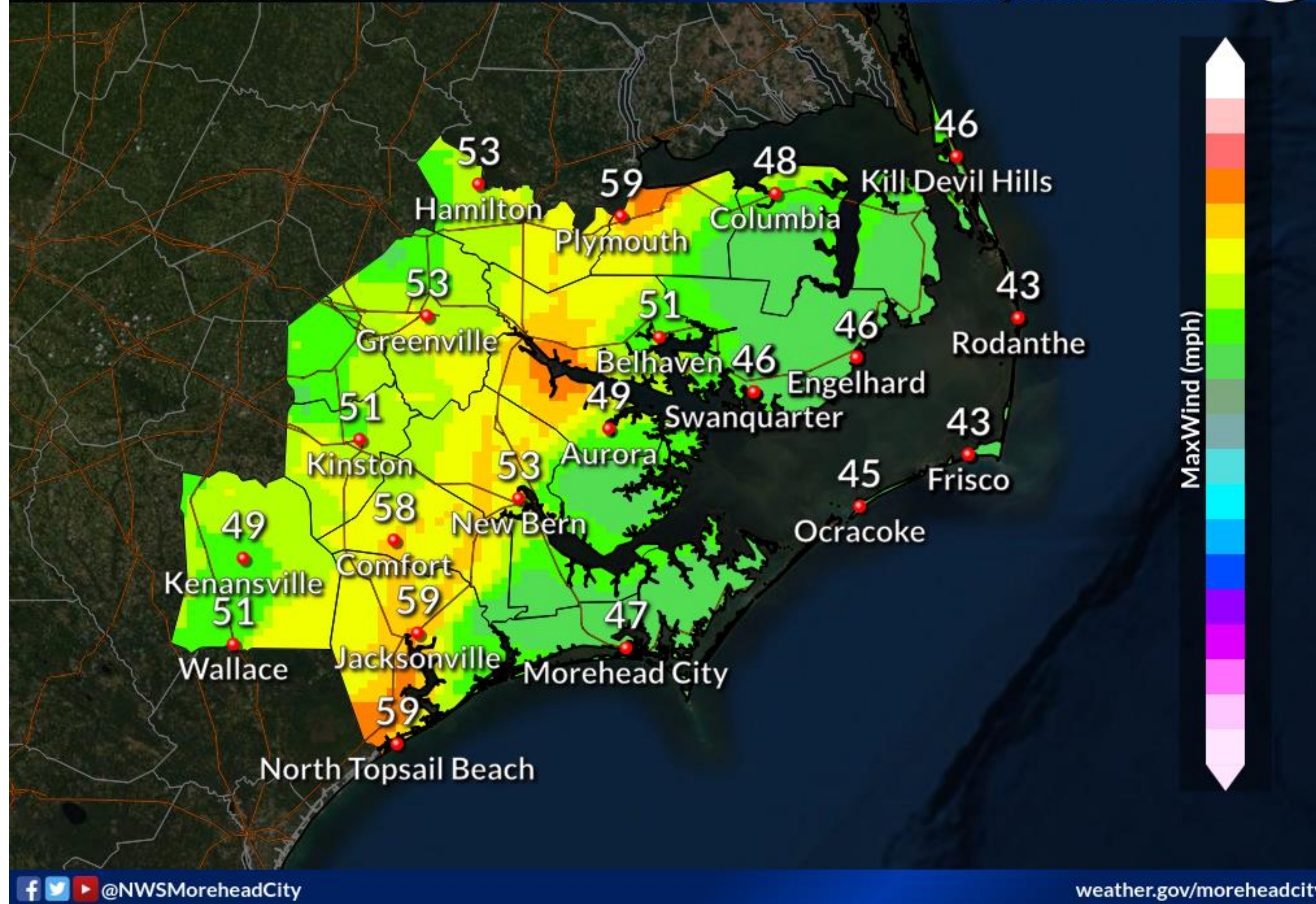


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Tropical Storm Isaias

Maximum Sustained Wind

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- Sustained tropical storm force winds expected
- Potential for power outages and downed trees
- The highest risk areas and expected wind speeds now, may shift based on track and intensity changes

Maximum Wind Gust

Tropical Storm Isaias

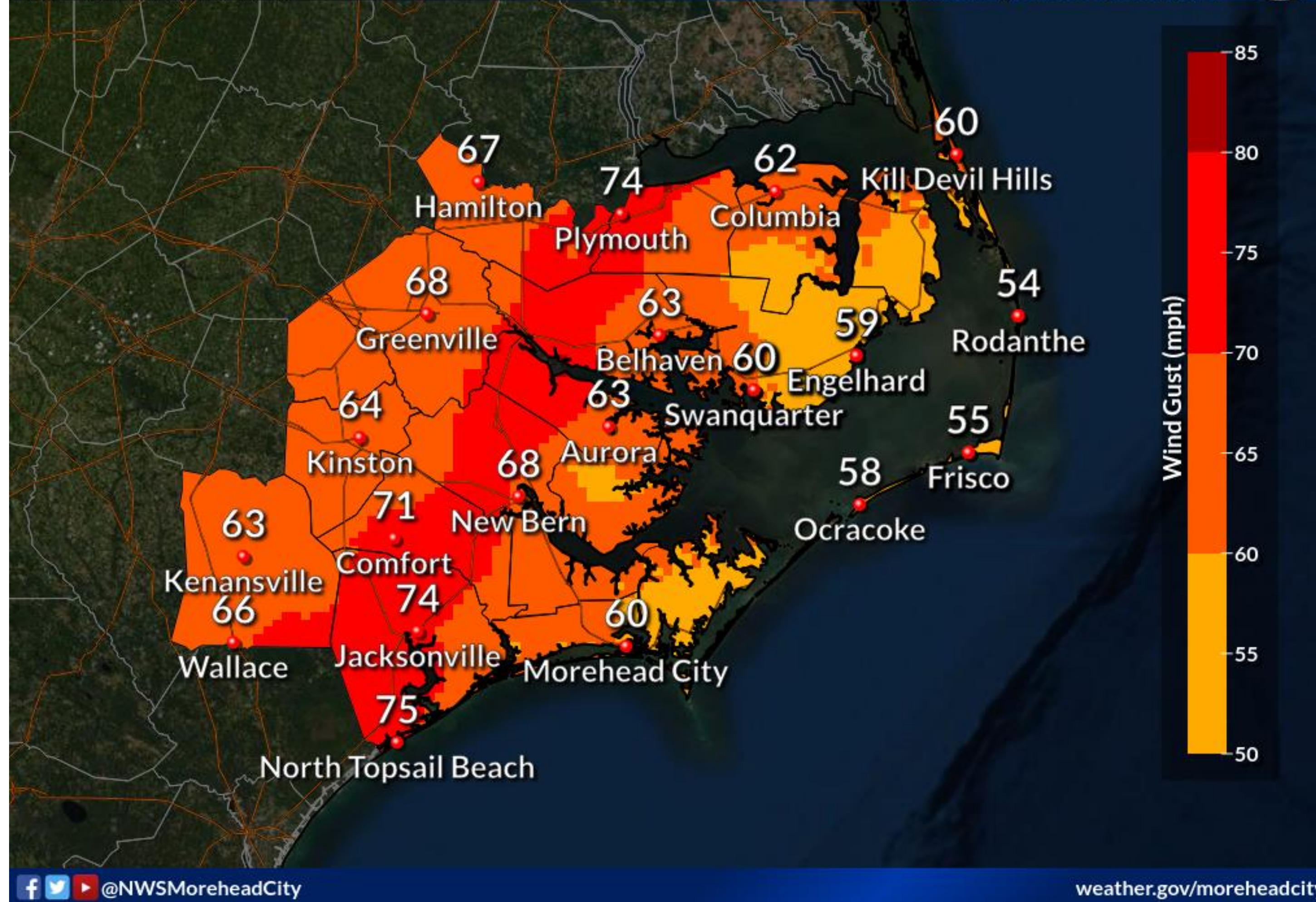


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Tropical Storm Isaias

Maximum Sustained Wind

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- Some gusts to low end hurricane force possible.
- Some slight adjustments in location of the maximum winds may still occur with a shift in storm track.

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Tornado Threat

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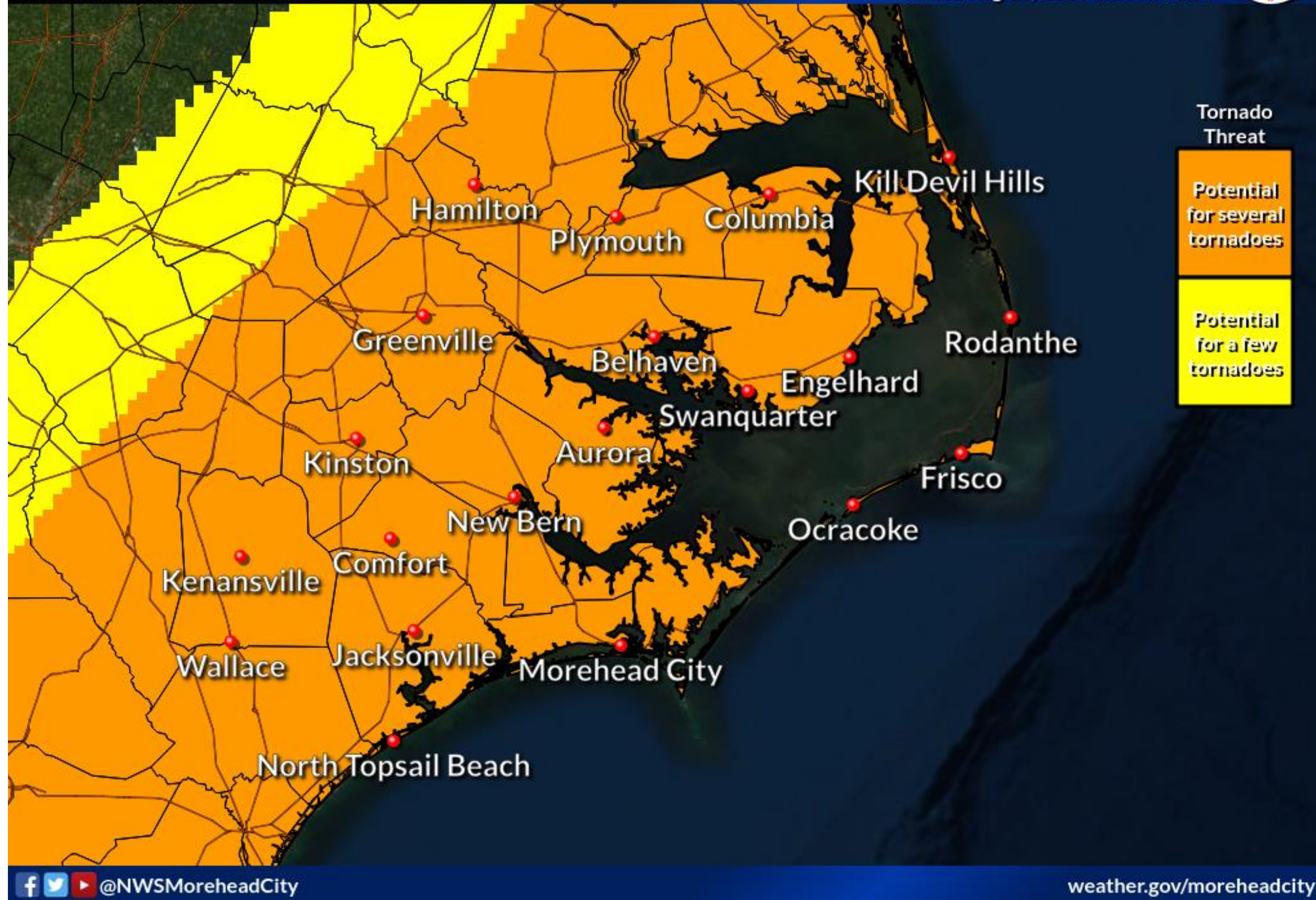


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Tornado Threat

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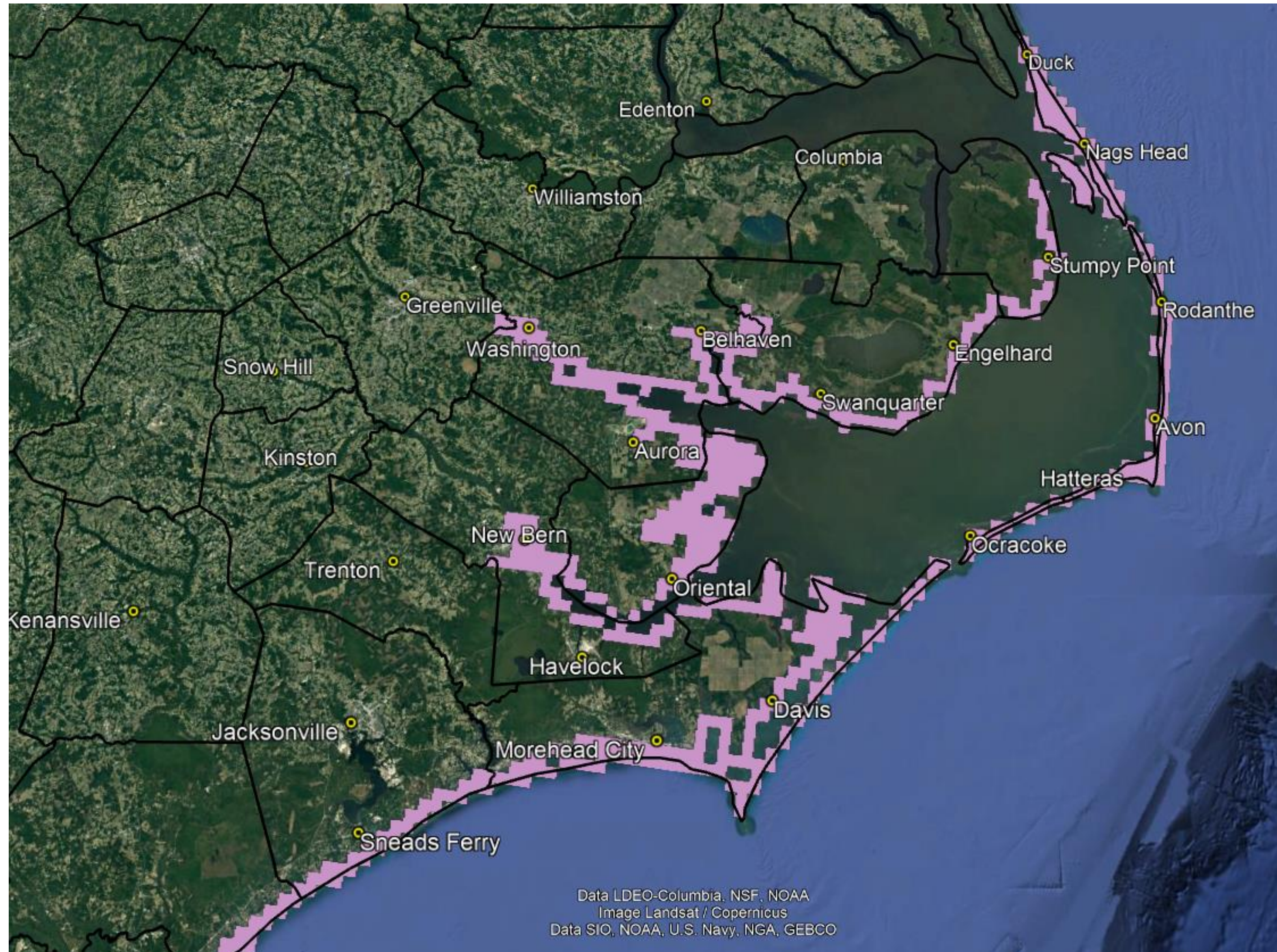
- There is the potential for several tornadoes across Eastern North Carolina.
- Tornadoes can occur well ahead and away from the center of the storm.
- Can produce enhanced areas of damage.
- Have multiple ways to receive warnings, especially overnight!

Storm Surge Watch

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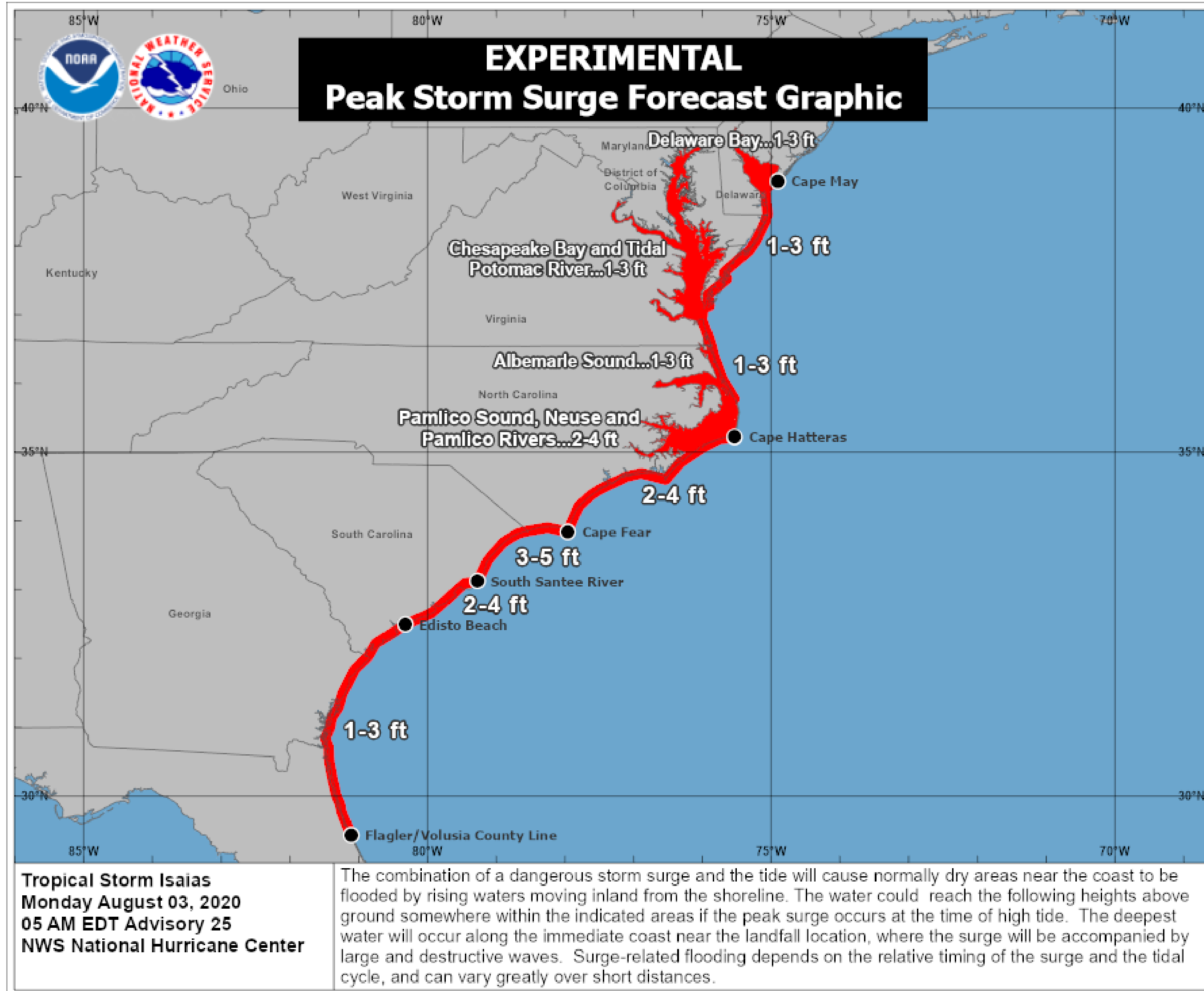
- Storm Surge Watch in effect south of Duck including the rivers adjacent to the Pamlico Sound: Pamlico, Pungo, Bay and Neuse.
- A Storm Surge WATCH means that life threatening inundation of greater than 3 feet above normally dry ground is possible.

Peak Storm Surge

Tropical Storm Isaias



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- Major beach erosion with heavy surf breaching dunes
- Moderate damage to marinas, docks and piers
- Areas of inundation with storm surge flooding

Storm Surge Threat

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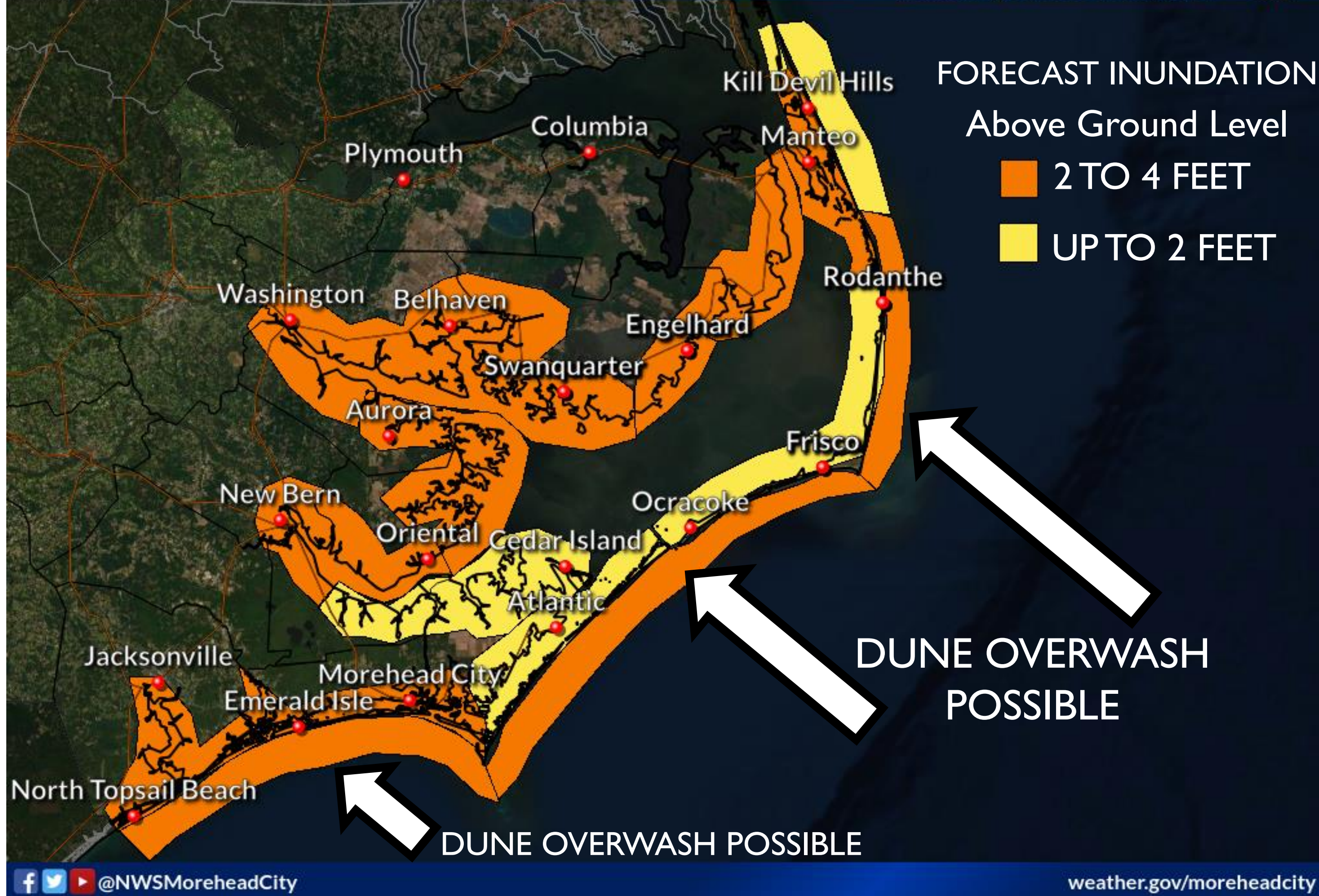


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Storm Surge

Potential Inundation Values (Above Ground Level)

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- Inundation of generally 2 to 4 feet above normally dry ground (low lying areas near the water that are usually dry).
- This does not include wave action on top of the surge.
- Ocean overwash Highway 12 (Outer Banks near high tide).

Highest impacts

Oceanside: (Crystal Coast, Outer Banks from Rodanthe south through Cape Lookout).

Sounds/Rivers: Neuse, Pamlico/Pungo. Pamlico Sound especially north of Pea Island (near locations such as Manteo, Kitty Hawk).

Flooding Rain Threat

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Flooding Rain Threat

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- There is the potential for moderate flooding rain across areas mainly west of Highway 17.
- This threat is mainly for the potential for flash flooding.

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Storm Total Rainfall

Tropical Storm Isaias

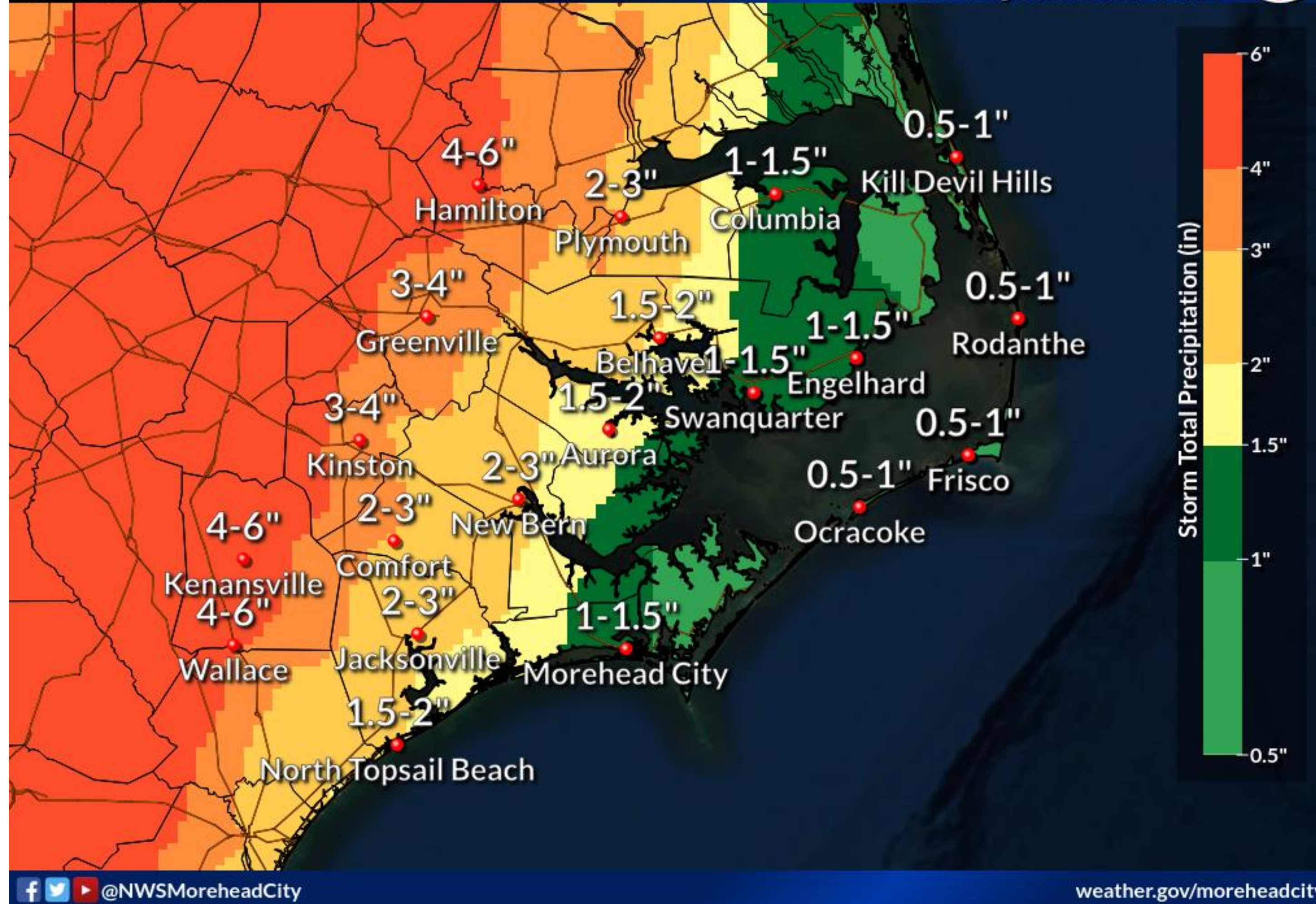


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Tropical Storm Isaias

Storm Total Rainfall

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- Based on current track and intensity.
- Localized flash flooding is possible where bands of the heaviest rain fall.
- Remember most flood related deaths occur in vehicles! **Turn Around, Don't Drown.**

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Flash Flood Watch

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Flash Flood Watch

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- Flash Flood Watch in effect from generally Highway 17 westward.

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Possible Minor River Flooding

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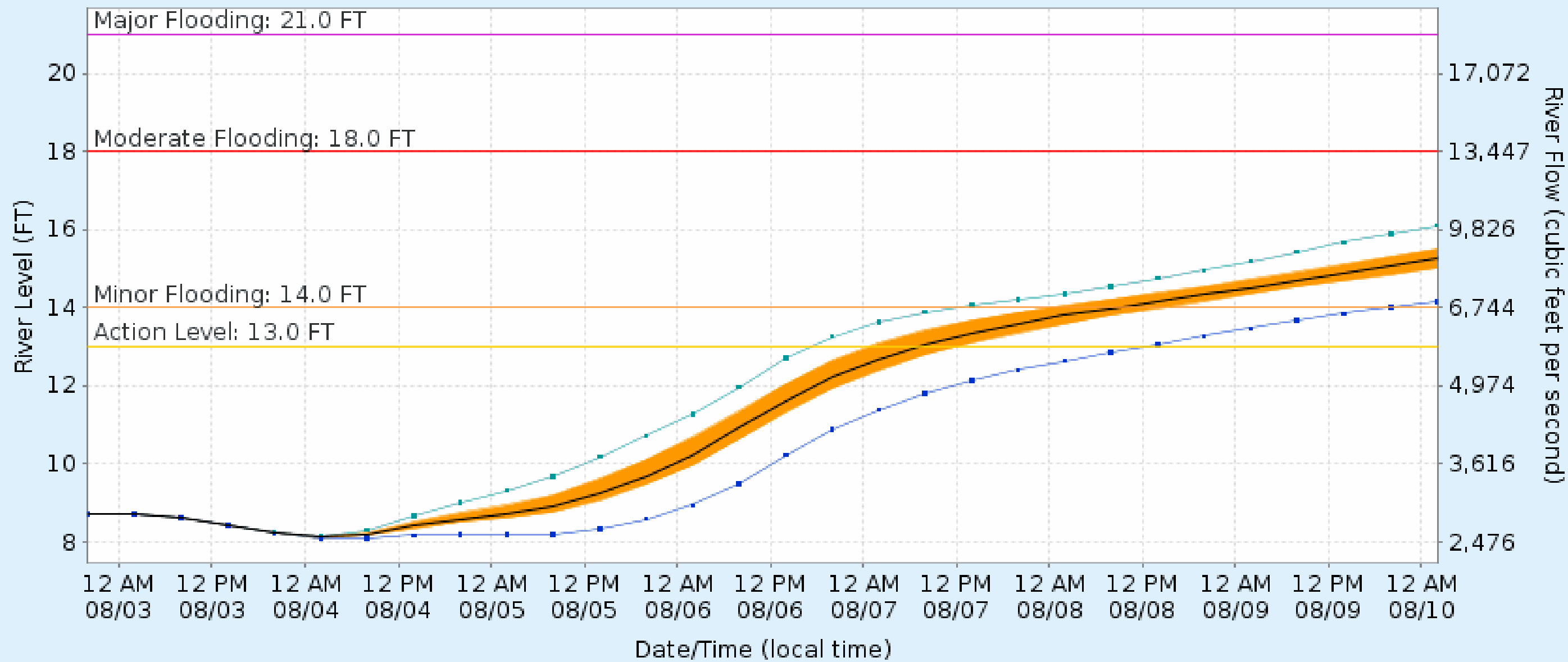


7 Day GFS Potential River Levels

Used to Estimate the Chance of Flooding and the Range of Possible River Levels



Neuse River at Kinston



- Median River Level (Simulations indicate a 50% Chance of Exceeding this Level)
- Minimum River Level (Simulations indicate a 5% Chance of Falling Below this Level)
- Maximum River Level (Simulations indicate a 5% Chance of Exceeding this Level)
- More Likely Range (Simulations indicate a 40% chance river levels will fall within this range)

08/02/2020 18 UTC GFS Model

Note: This model forecast is based on projected rainfall.

- Neuse River at Kinston, Contentnea Creek at Hookerton may approach or exceed minor flood stage. Worse case would be approaching moderate stage.
- N.E Cape Fear River at Chinquapin, Tar River at Greenville generally remain below minor flood stage. Worse case would be approaching minor flood stage.
- River flooding impacts would not occur until late in the week.

High Risk For Rip Currents

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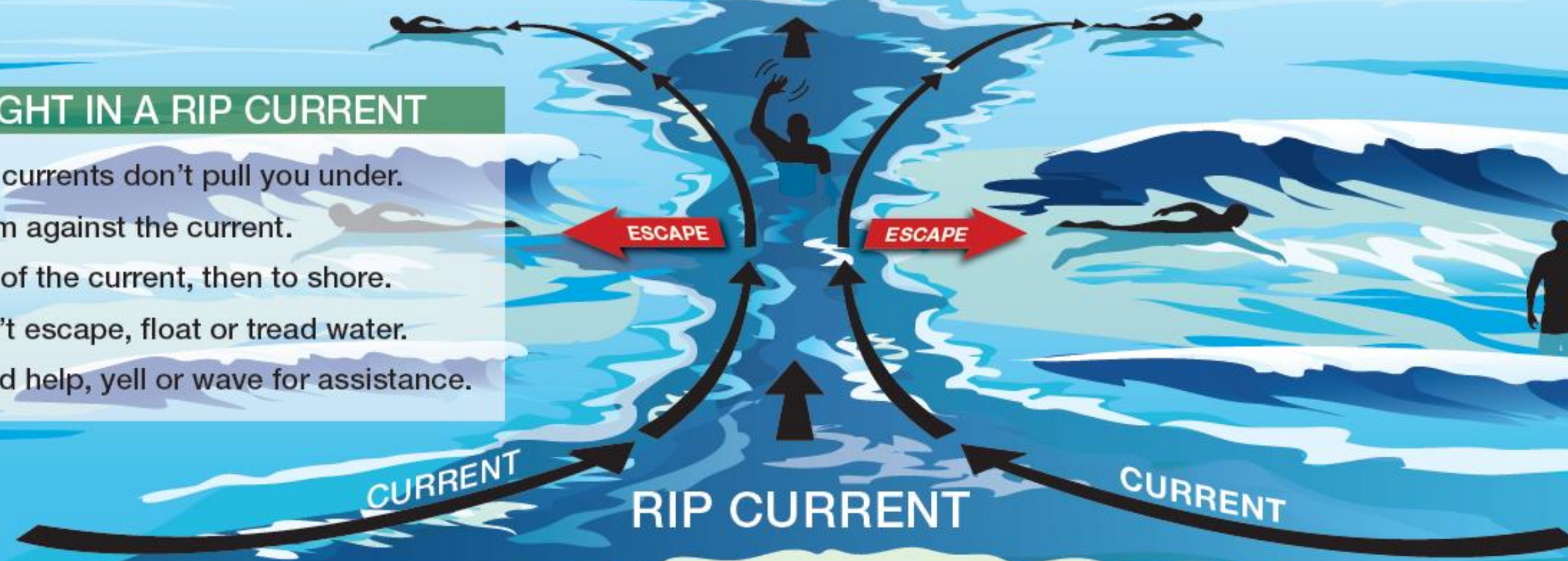


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RIP CURRENTS KNOW YOUR OPTIONS

IF CAUGHT IN A RIP CURRENT

- Relax, rip currents don't pull you under.
- Don't swim against the current.
- Swim out of the current, then to shore.
- If you can't escape, float or tread water.
- If you need help, yell or wave for assistance.



Rip currents are powerful currents of water moving away from shore. They can sweep even the strongest swimmer away from shore. If at all possible, swim near a lifeguard.

Impacts

- Increased swell is producing very dangerous swimming conditions **now through mid-week.**
- Visit the [Beach Forecast Page](#) (experimental) for the latest beach conditions and forecast.

Key Take-Aways

Tropical Storm Isaias

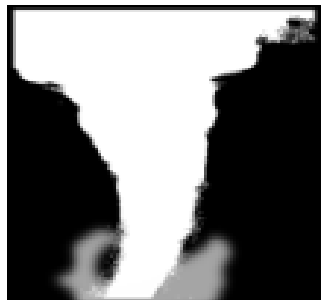


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- ✓ Confidence is HIGH that the event will occur
- ✓ Confidence is HIGH regarding impacts



High risk for rip currents now through mid-week.



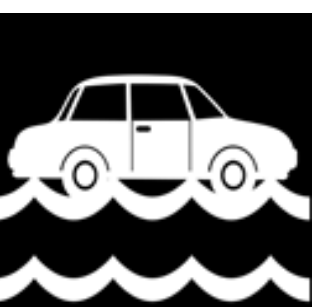
Increased threat for tornadoes which can occur well ahead and away from storm center. May occur when people are sleeping, shorter advanced warning. Have multiple ways to receive warnings!



Potential for flash flooding especially inland. Minor river flooding possible late in the week.



Tropical storm force winds may cause power outages, downed trees.



Storm surge generally 2 to 4 feet.



*The Next Briefing:
By Monday (August 3rd) 6:30 PM EDT
Method: [Email]*



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