



TROPICAL STORM ARTHUR BRIEFING

5:00 AM EDT

Sunday, May 17, 2020

Prepared by: WFO Morehead City, NC

What has changed: Tropical Storm **WARNING** Issued

Next Briefing: Sunday, May 17, by 7pm EDT

Disclaimer: The information contained within is time-sensitive. Do not use after 7:00pm EDT Sunday.

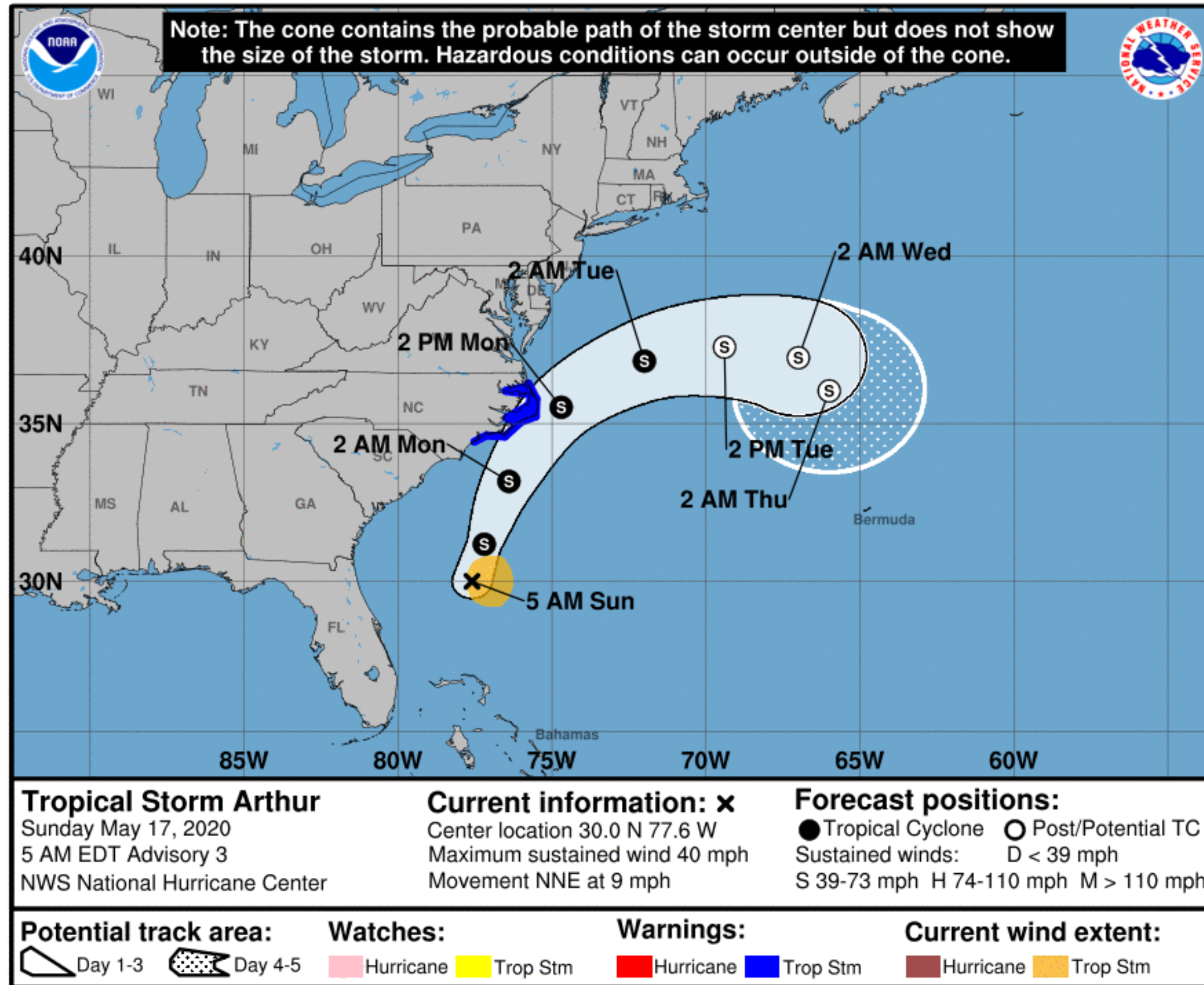


Tropical Storm WARNING

Tropical Storm Arthur



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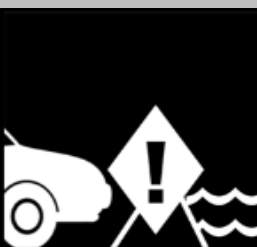
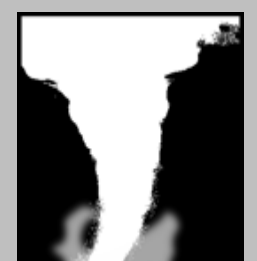
- An enhanced risk for dangerous rip currents will continue into through Monday.
- Tropical storm force winds will be possible along the coast and particularly the Outer Banks.
- Minor storm surge impacts will be possible for areas adjacent to the ocean, sounds, and rivers.

Situation Overview



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Hazard	Impacts	Location	Timing
Marine 	Dangerous rip currents, high surf and marine conditions dangerous to all mariners	Coastal waters and beaches	Through Monday
Wind 	There is the potential for significant impacts	Along the coast and especially the Outer Banks	Through Monday
Storm Surge/ Inundation 	There is the potential for limited impacts	Immediate shoreline and low-lying areas along or near the coast	Through Monday
Flooding Rain 	Localized flooding of low-lying areas	Low-lying areas along or near the coast	Monday
Tornado 	A few tornadoes are possible	Coastal counties	Through Monday

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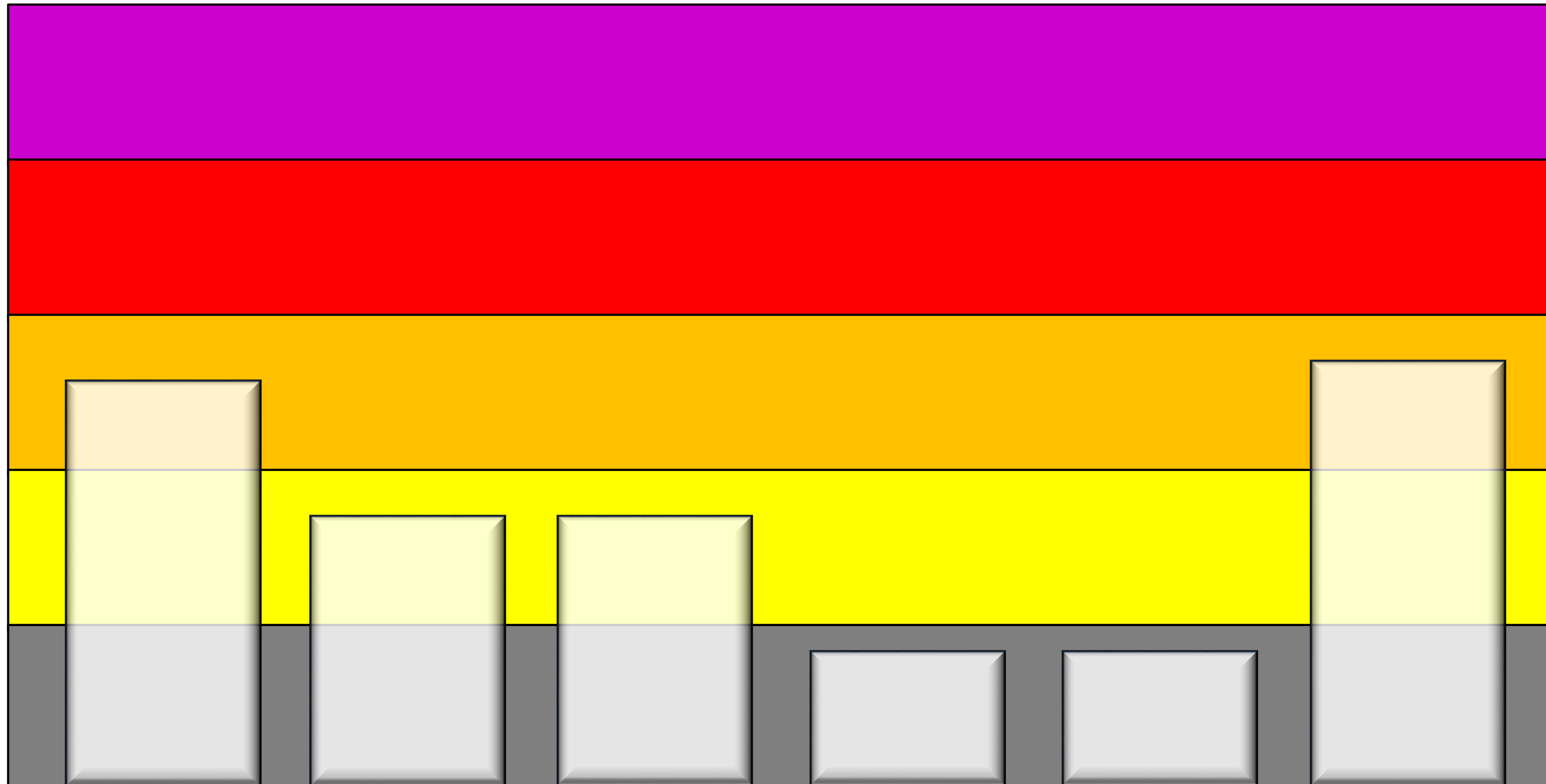
- An enhanced risk for dangerous rip currents will continue into through Monday.
- Tropical storm force winds will be possible along the coast and particularly the Outer Banks.
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Threat Levels

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Wind

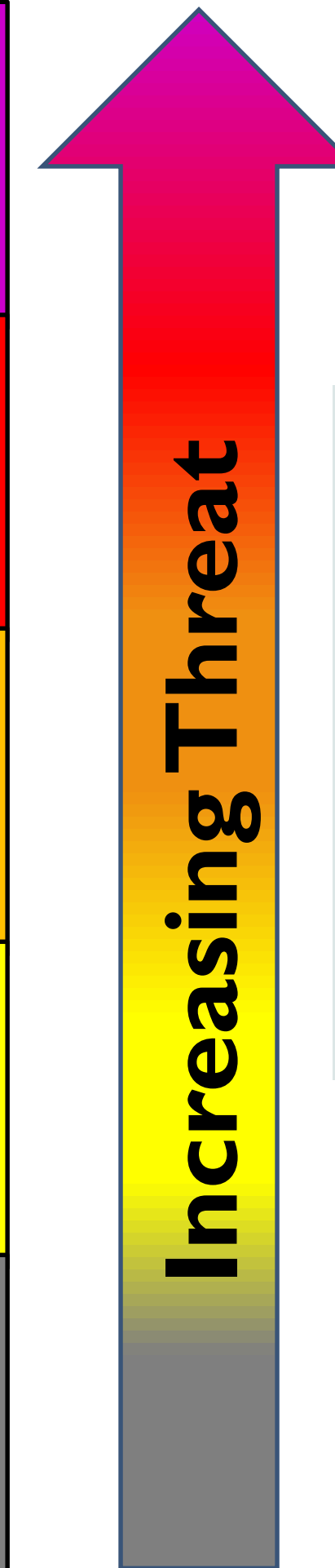
Surge

**Rainfall/
Flash Flooding**

**River
Flooding**

Tornadoes

Marine



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

High Risk For Rip Currents

Tropical Storm Arthur

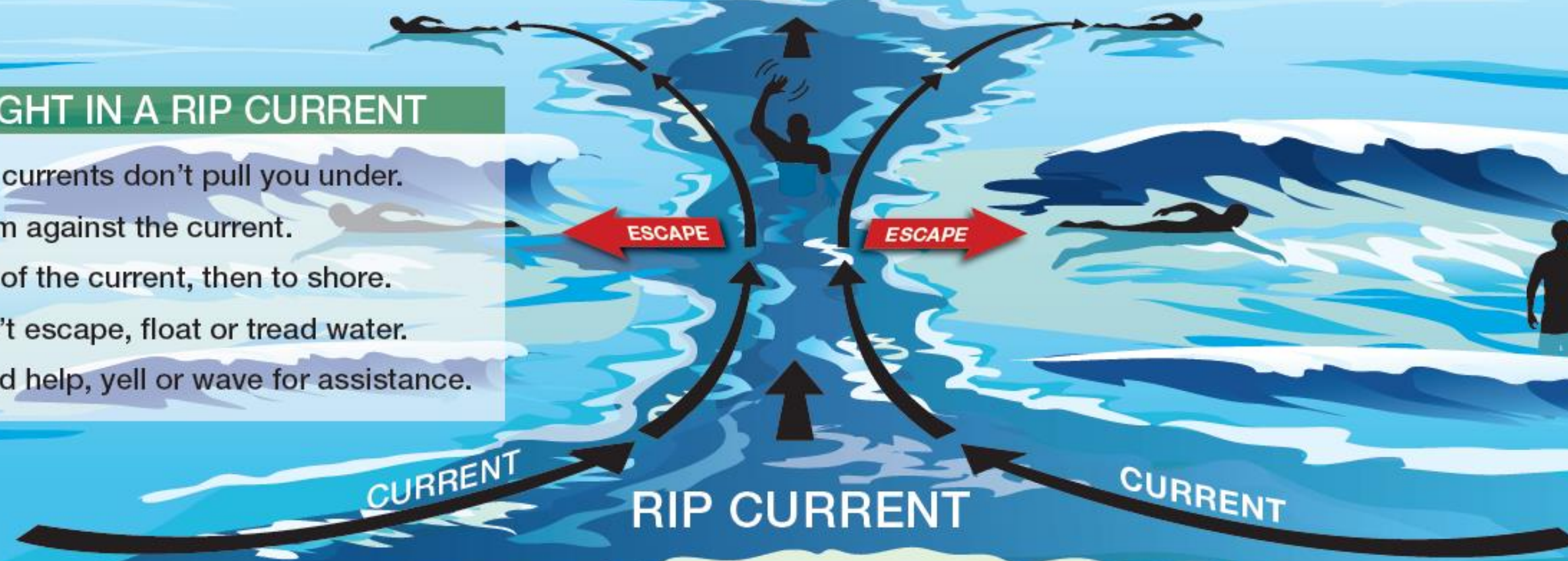


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RIP CURRENTS KNOW YOUR OPTIONS

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 will produce very dangerous swimming conditions through early next week.
- Visit [Beach Forecast Page](#) (experimental) for the latest beach conditions forecast.

Wind Threat / Potential Impact

Tropical Storm Arthur



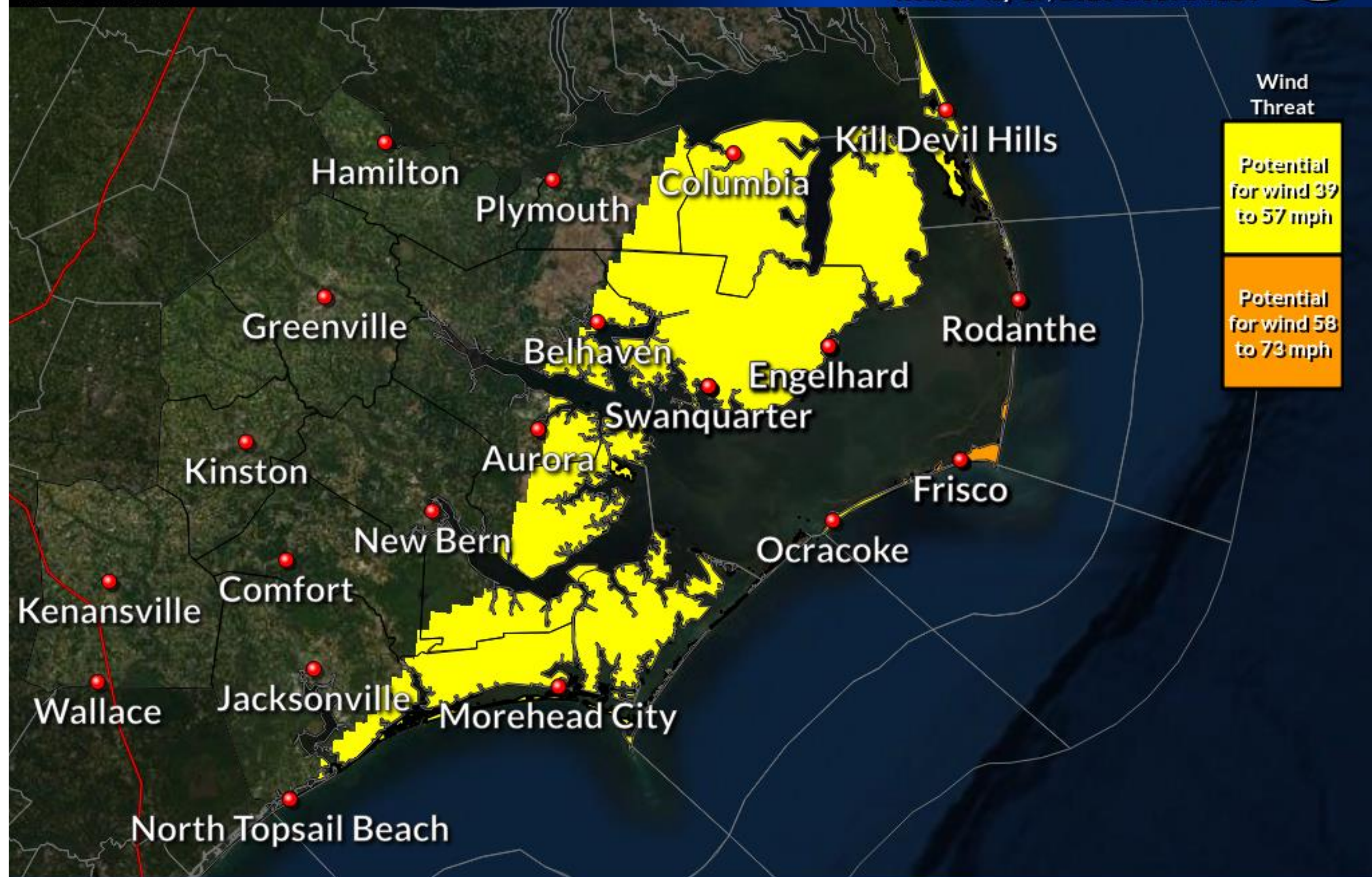
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Wind Threat



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There is a potential for:

- Some damage to roofing and siding materials, along with damage to porches, awnings, carports, and sheds.
- Several large trees snapped or uprooted, but with greater numbers in places where trees are shallow rooted.

Wind Threat

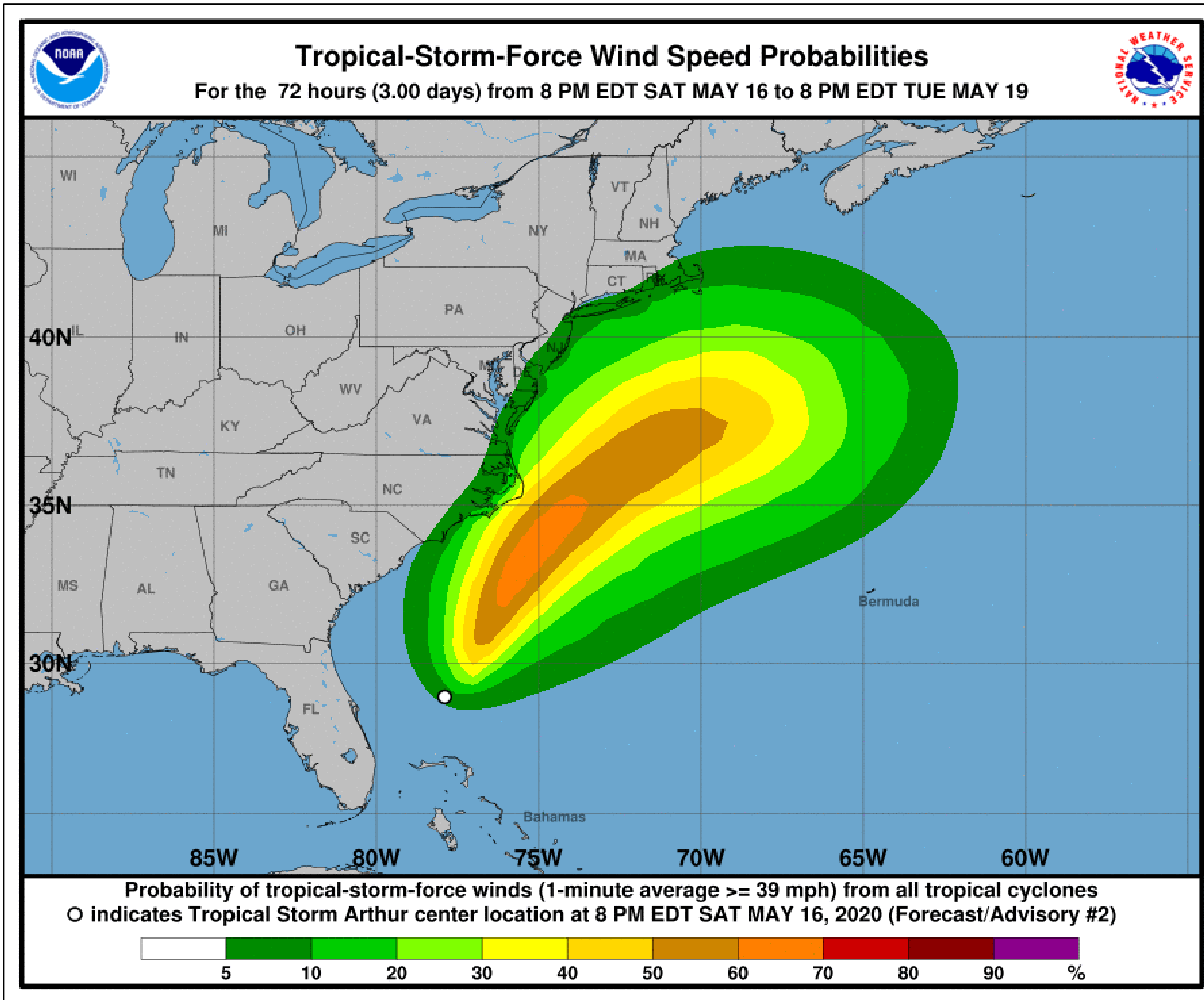
Potential for wind greater than 110 mph	Potential for wind 74 to 110 mph	Potential for wind 58 to 73 mph	Potential for wind 39 to 57 mph	Wind less than 39 mph
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TS Wind Speed Probabilities

Tropical Storm Arthur



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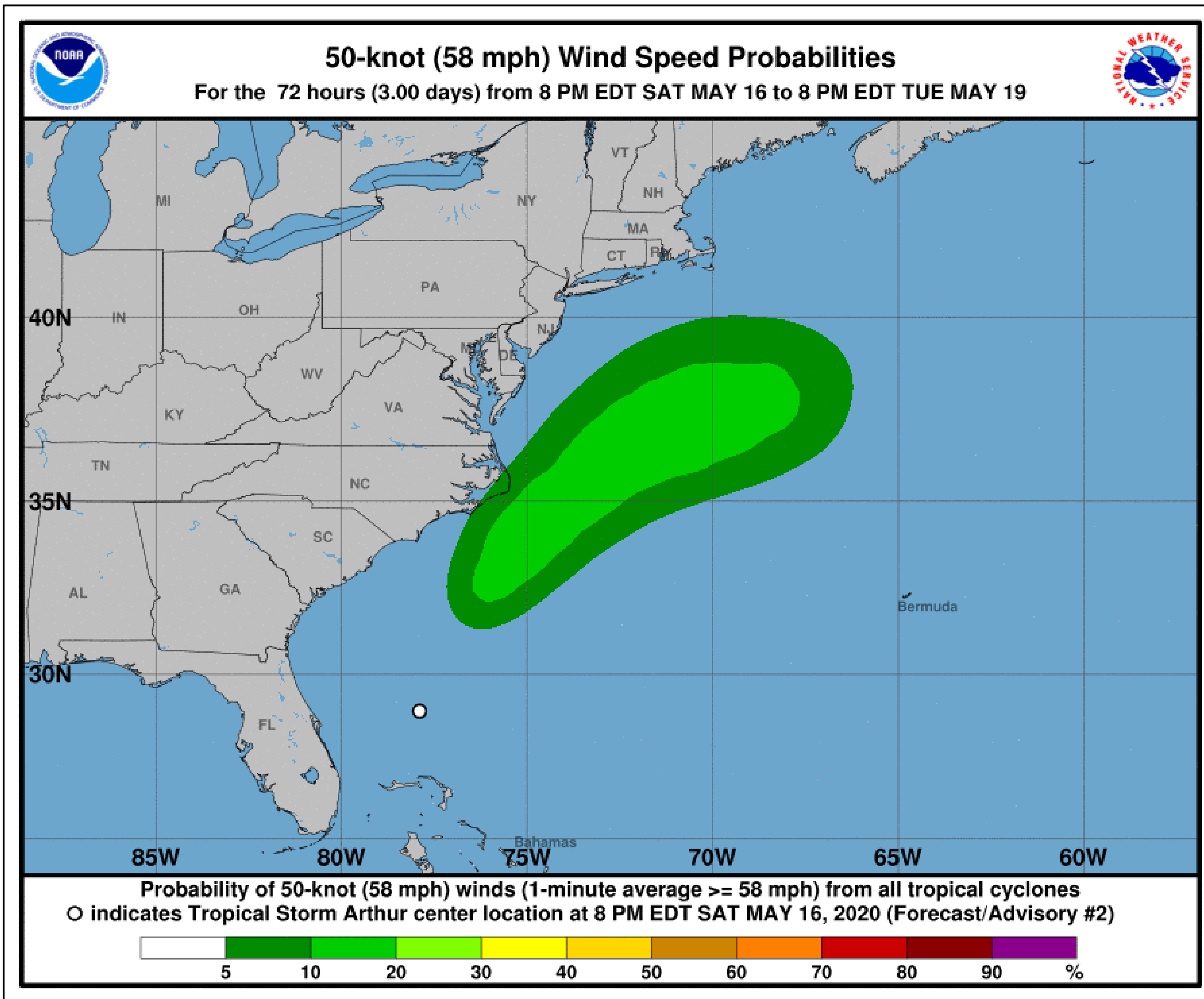
- The threat for tropical storm force winds is increasing, especially along the Outer Banks.
- Tropical Storm conditions could begin as early as sometime tonight.

50kt Wind Speed Probabilities

Tropical Storm Arthur



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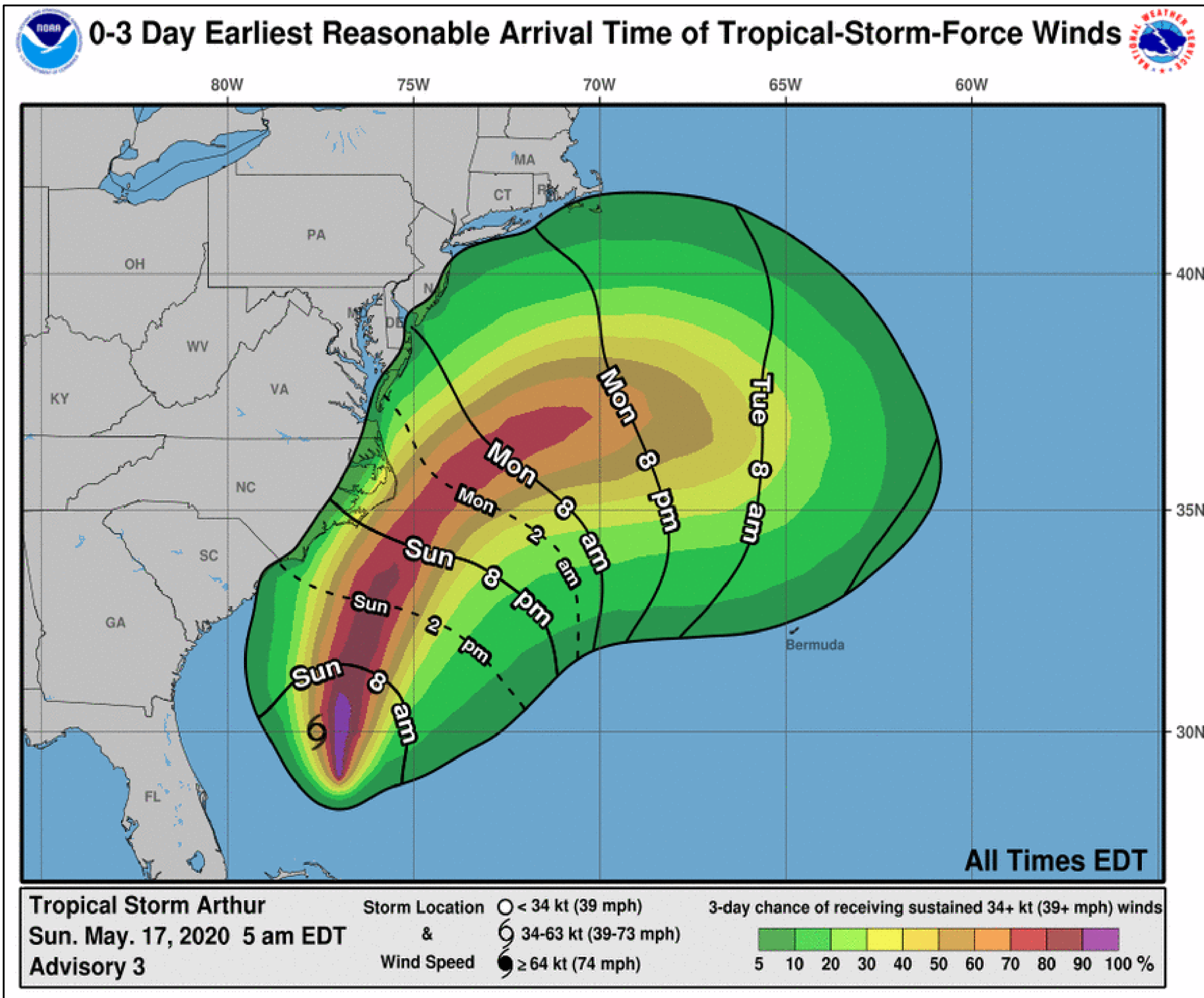
- The threat for 50 knot winds is increasing, especially over the coastal waters.

Earliest Reasonable Time of Arrival

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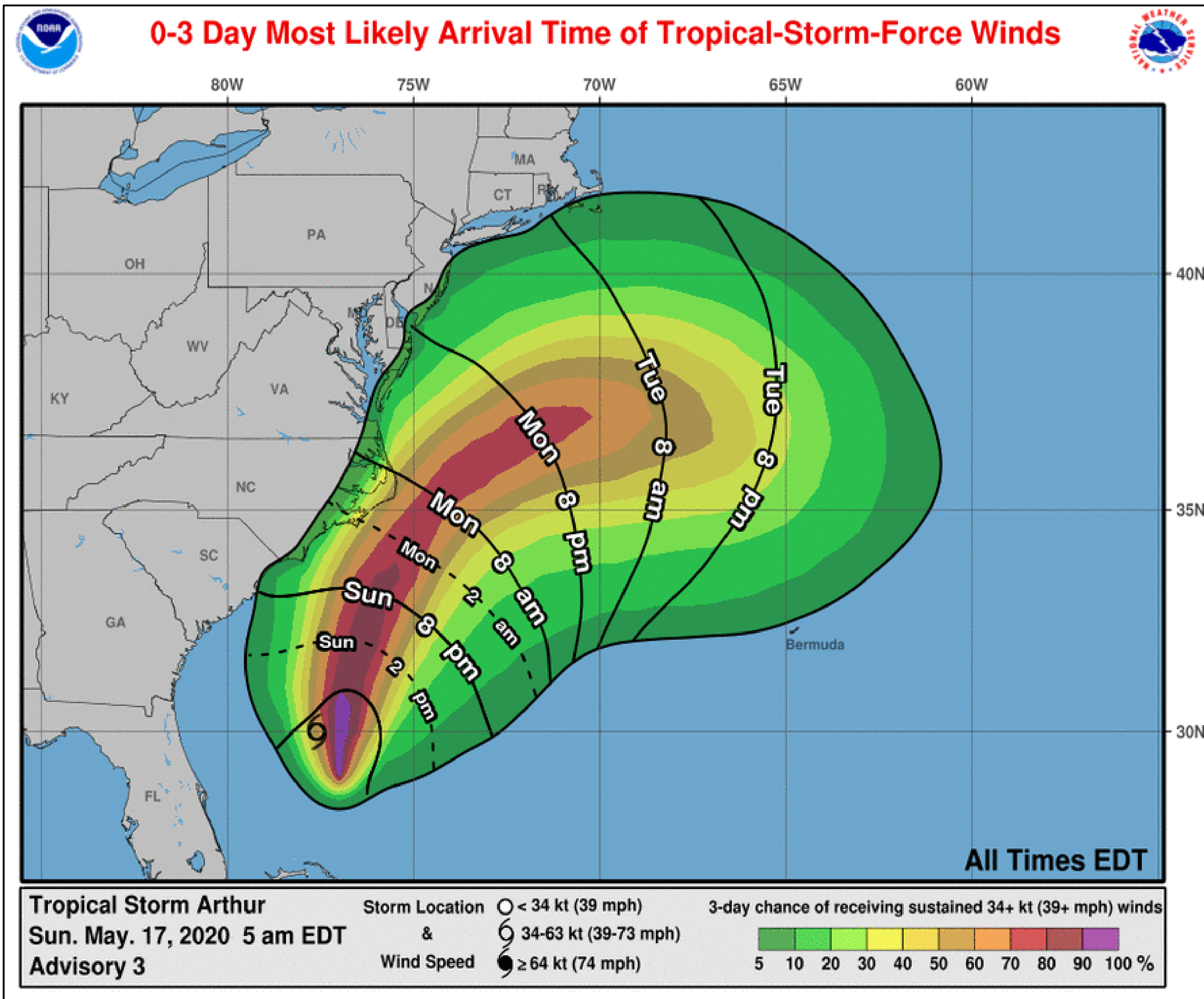
- The earliest reasonable time of arrival of Tropical Storm Force Winds for Eastern North Carolina would be sometime tonight.
- However, the most likely time this area could see Tropical Storm Force Winds will be during the day on Monday.

Most Likely Time of Arrival

Tropical Storm Arthur



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- The most likely time of arrival of Tropical Storm Force Winds for Eastern North Carolina is during the day on Monday.
- However, this area could see Tropical Storm Force Winds as early as sometime tonight.

Maximum Wind Gusts Through Monday



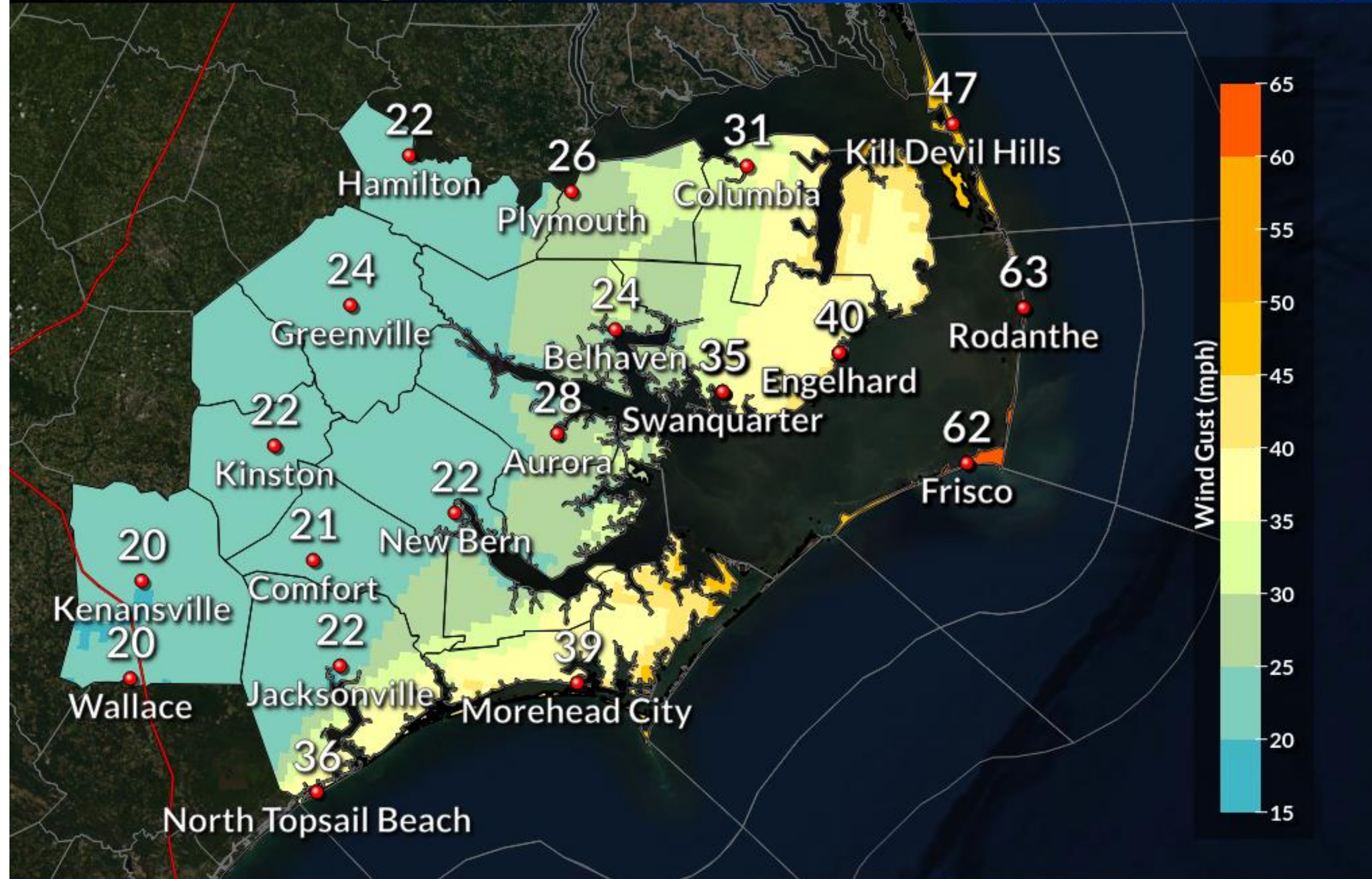
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Maximum Wind Gusts Through Monday

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Impacts

- Scattered power and communications outages.
- Greatest impacts expected along the immediate coast.

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Maximum Wind Gusts Through Monday



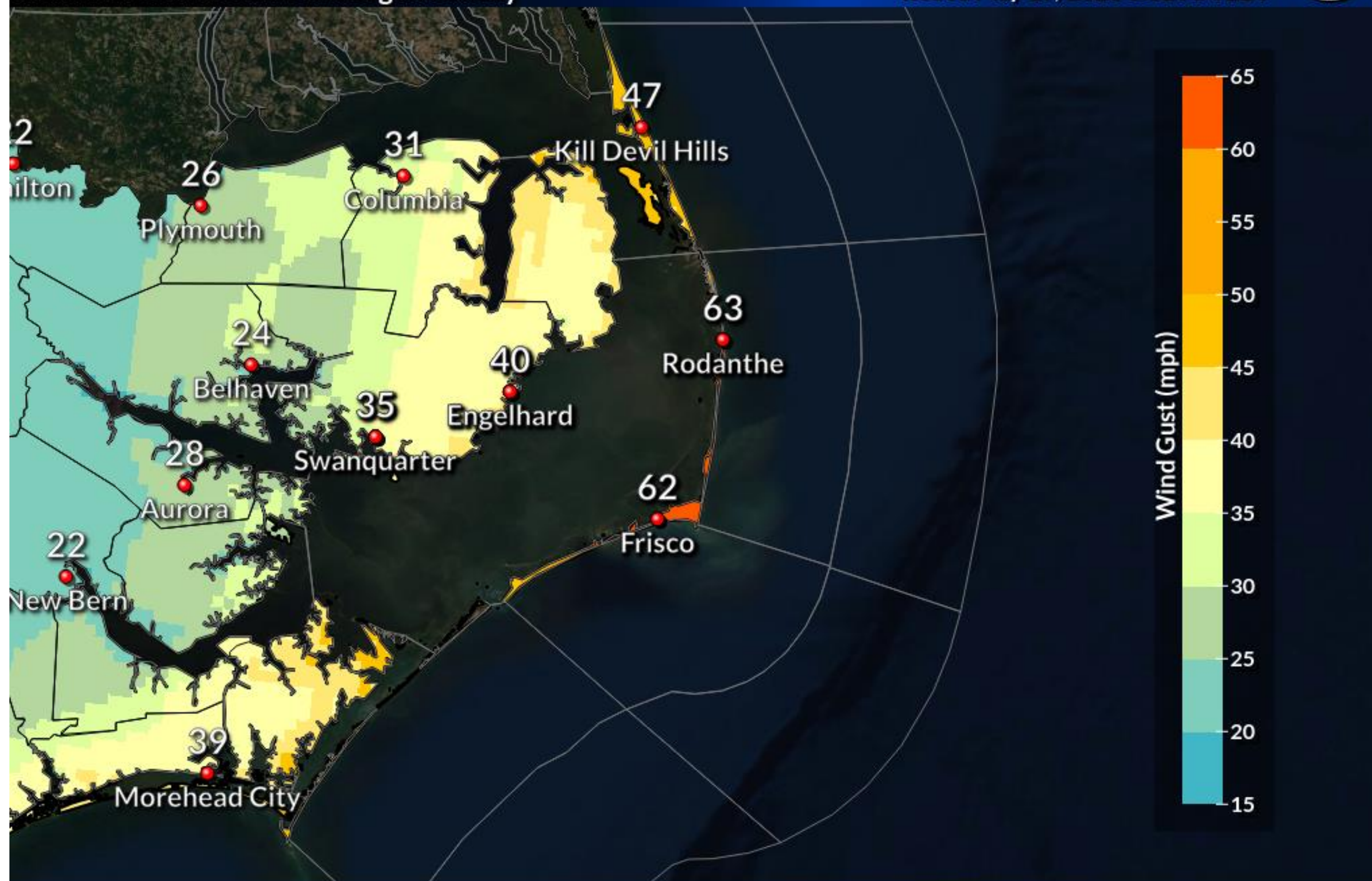
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Maximum Wind Gusts Through Monday

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Impacts

- Highest threat over the Outer Banks.
- Prepare for dangerous wind having possible significant impacts.
- Downed trees and widely scattered power outages possible.

Potential Storm Surge Impacts

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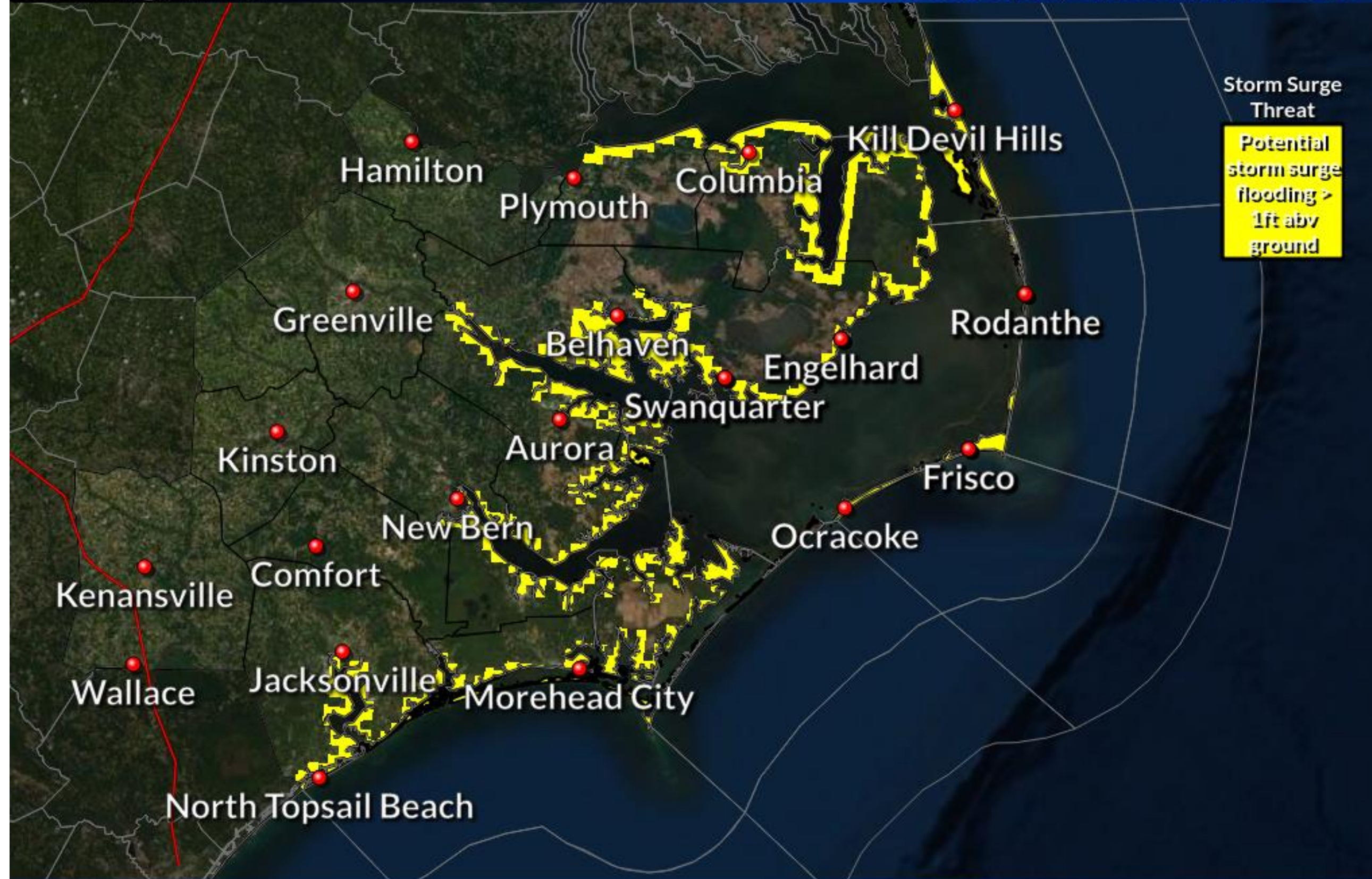


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Storm Surge Threat

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Storm Surge Threat
Potential storm surge flooding > 1ft abv ground

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There is a potential for:

- Localized inundation with storm surge flooding mainly along immediate shorelines and in low-lying spots.
- Moderate beach erosion. Heavy surf also breaching dunes, mainly in usually vulnerable locations.

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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Flooding Rain Threat

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Flooding Rain Threat

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Flooding
Rain Threat
Potential
for localized
flooding
rain

Impacts

- Periods of moderate to heavy rainfall are possible mainly along the coast, with the potential for localized minor flooding of low lying areas.

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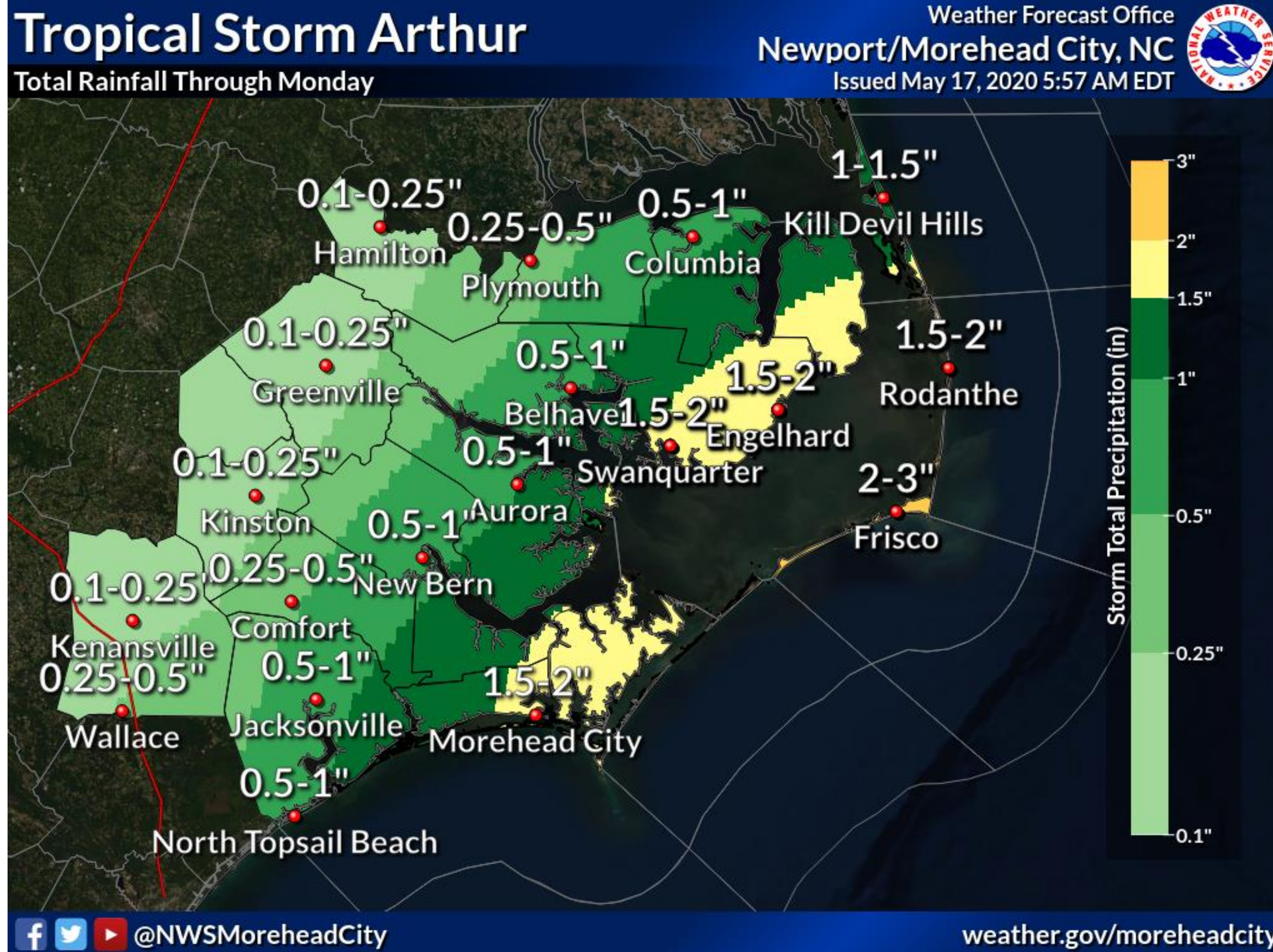
Expected Storm Total Rainfall

Tropical Storm Arthur



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Note: There will likely be locally higher amounts



Impacts

- Locally higher amounts possible.
- Periods of moderate to heavy rainfall are possible mainly along the coast, with the potential for localized minor flooding of low lying areas.

Key Take-Aways

Tropical Storm Arthur



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



Strong rip currents, high surf, and dangerous marine conditions expected at the beaches and across the coastal waters.



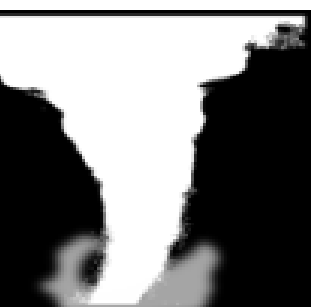
Strong wind gusts expected, especially along the coast and the Outer Banks.



Storm surge flooding is expected to have limited impacts across Eastern North Carolina.



Limited impacts are anticipated due to flooding rain across Eastern North Carolina.



A few tornadoes will be possible across Eastern North Carolina.



*The Next Briefing:
By Sunday 7:00 PM EDT
Method: [Email]*



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



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