



TROPICAL STORM ARTHUR BRIEFING

5:00 PM EDT

Sunday, May 17, 2020

Prepared by: WFO Morehead City, NC

What has changed: No major changes have been made

Next Briefing: Monday, May 18, by 7am EDT

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





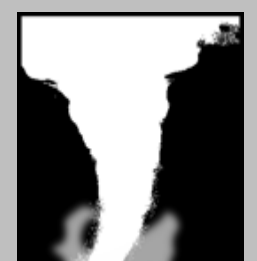


Situation Overview



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Tropical Storm Arthur

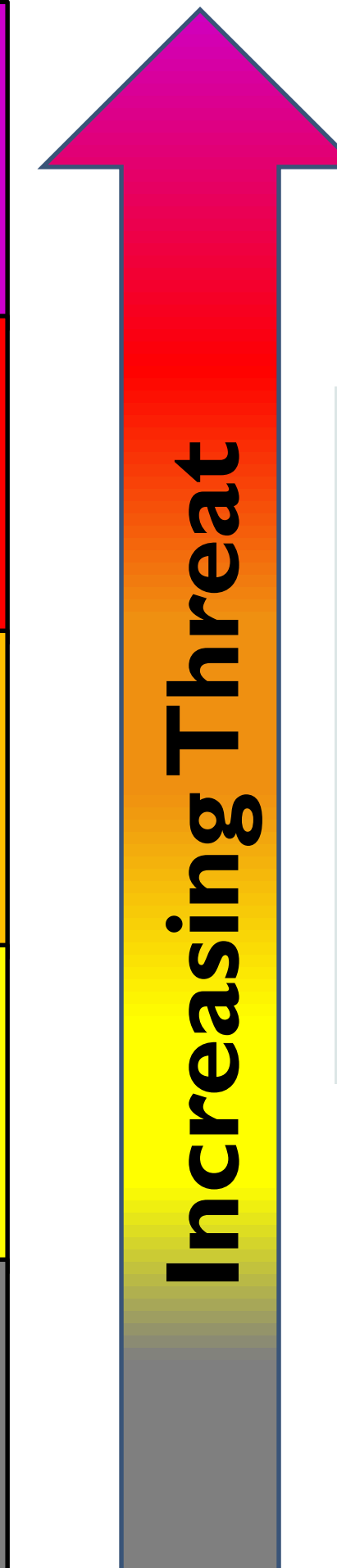
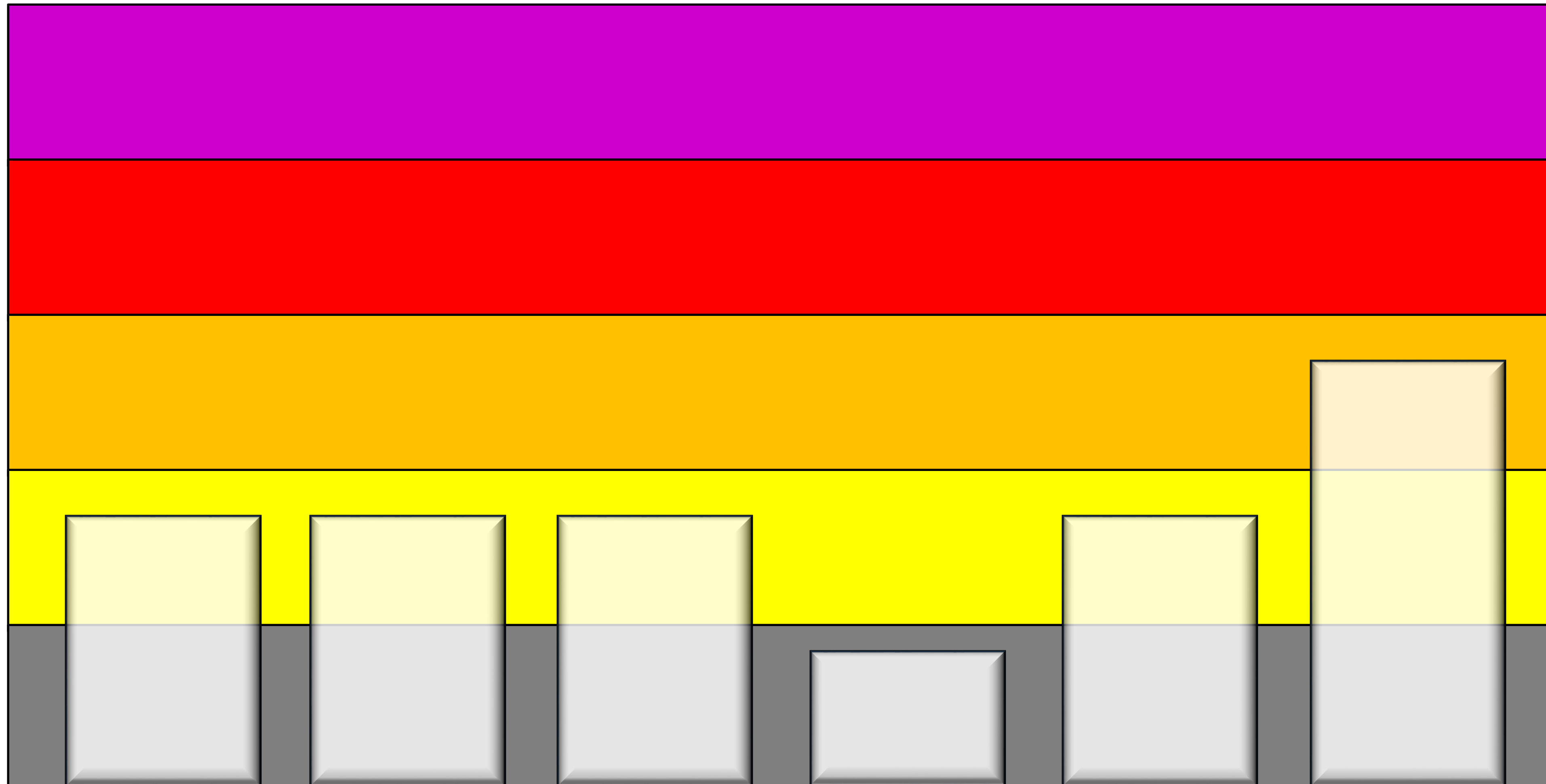
Hazard	Impacts	Location	Timing
Marine 	Dangerous rip currents, high surf and marine conditions dangerous to all mariners	Coastal waters and beaches	Through Monday
Wind 	There is the potential for limited impacts	Along the coast and especially the Outer Banks	Through Monday
Storm Surge/ Inundation 	There 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

Threat Levels

Tropical Storm Arthur



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

Wind

Surge

Rainfall/
Flash Flooding

River
Flooding

Tornadoes

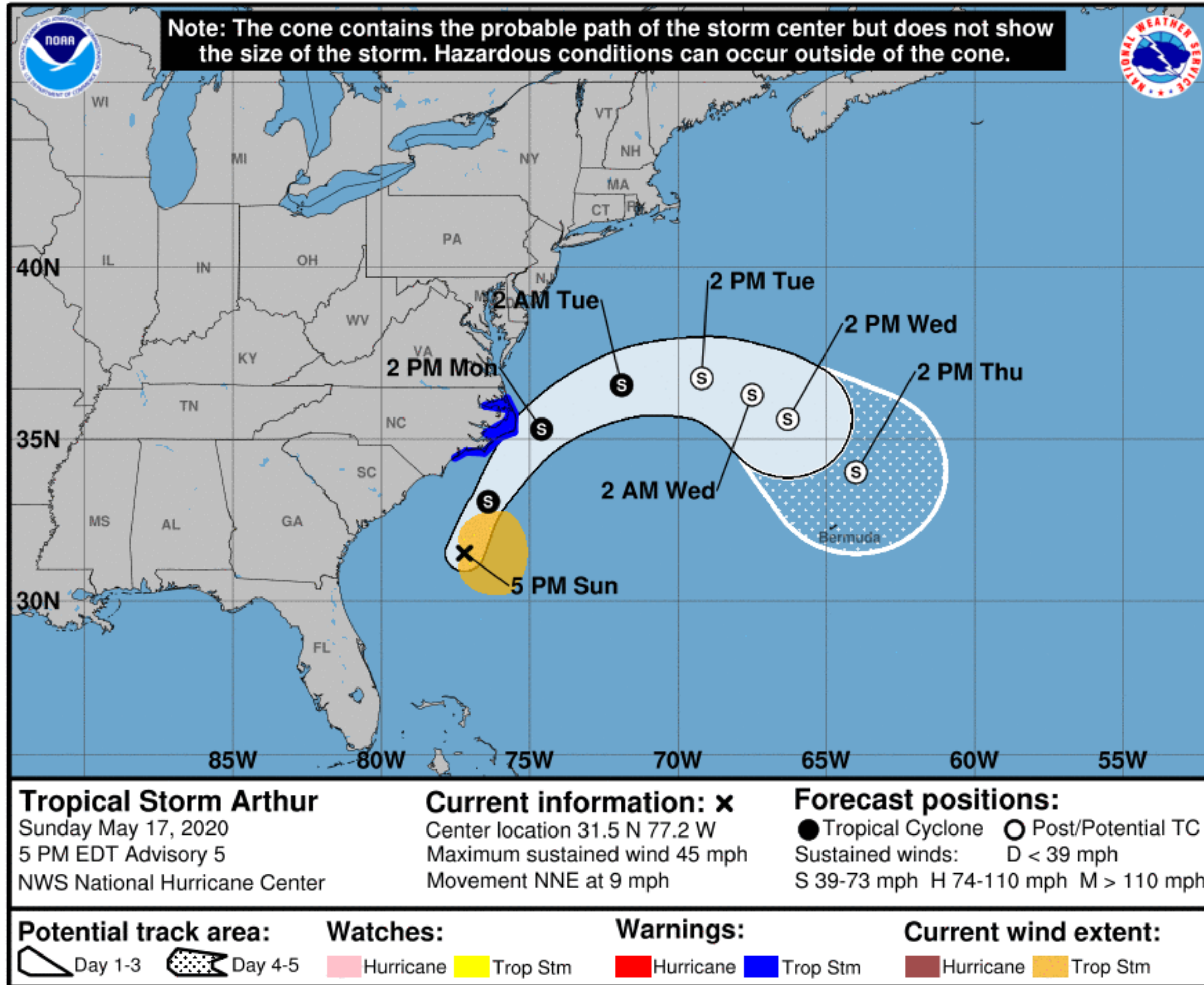
Marine

Tropical Storm WARNING

Tropical Storm Arthur



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- An enhanced risk for dangerous rip currents will continue 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.

High Risk For Rip Currents

Tropical Storm Arthur

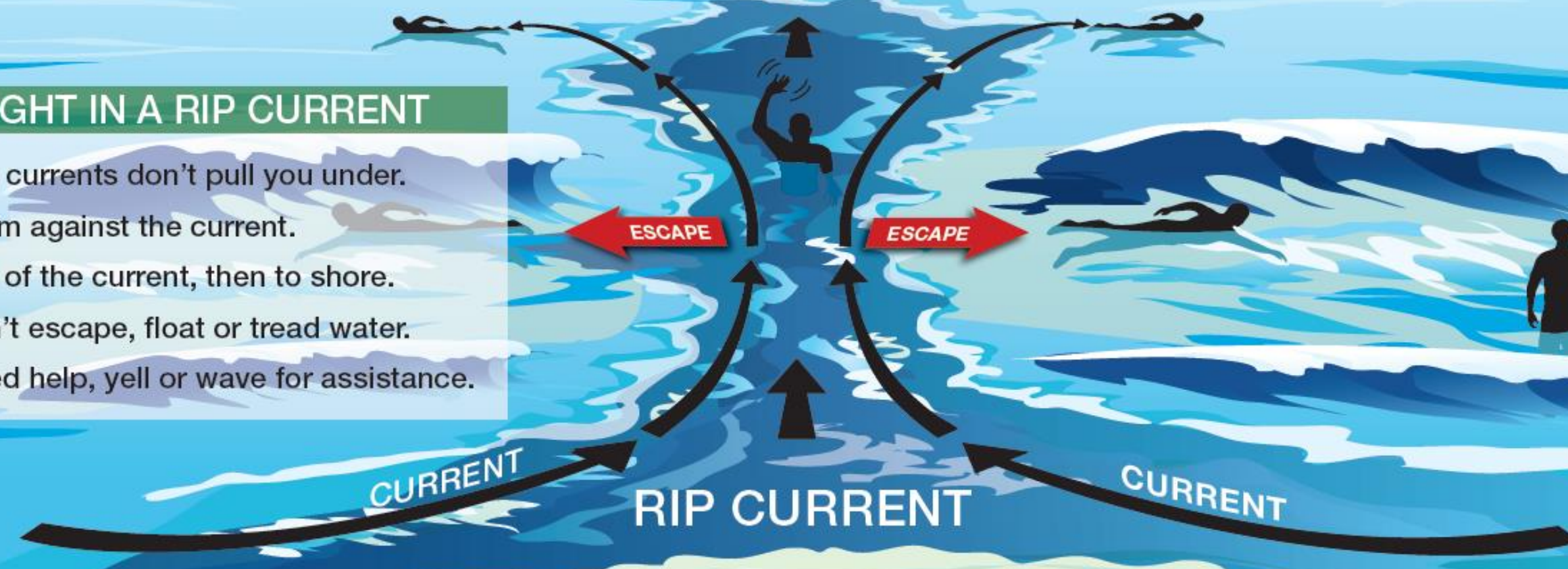


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RIP CURRENTS KNOW YOUR OPTIONS

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

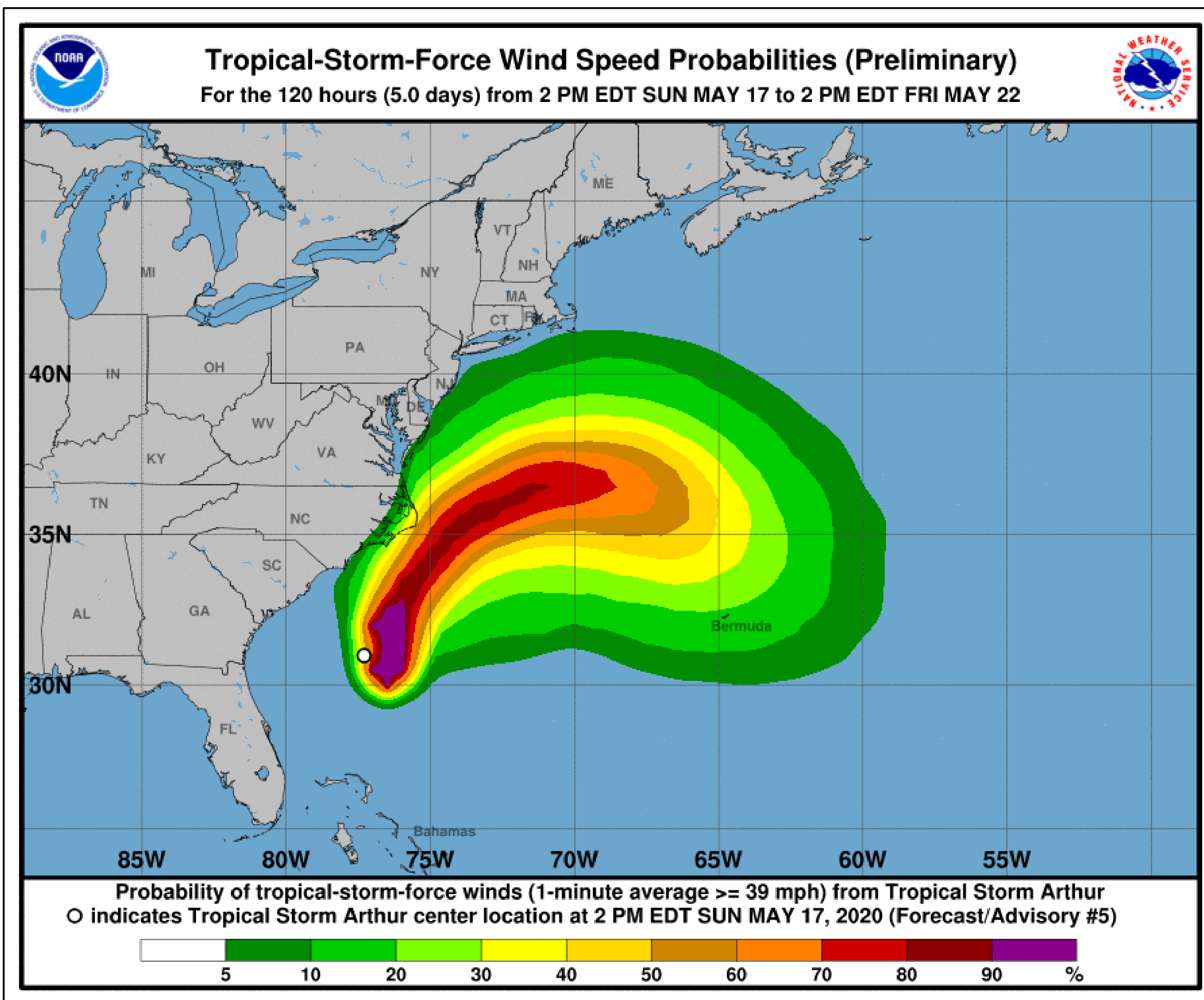
- Increased swell will produce very dangerous swimming conditions through early week.
- Visit [Beach Forecast Page](#) (experimental) for the latest beach conditions forecast.

TS Wind Speed Probabilities

Tropical Storm Arthur



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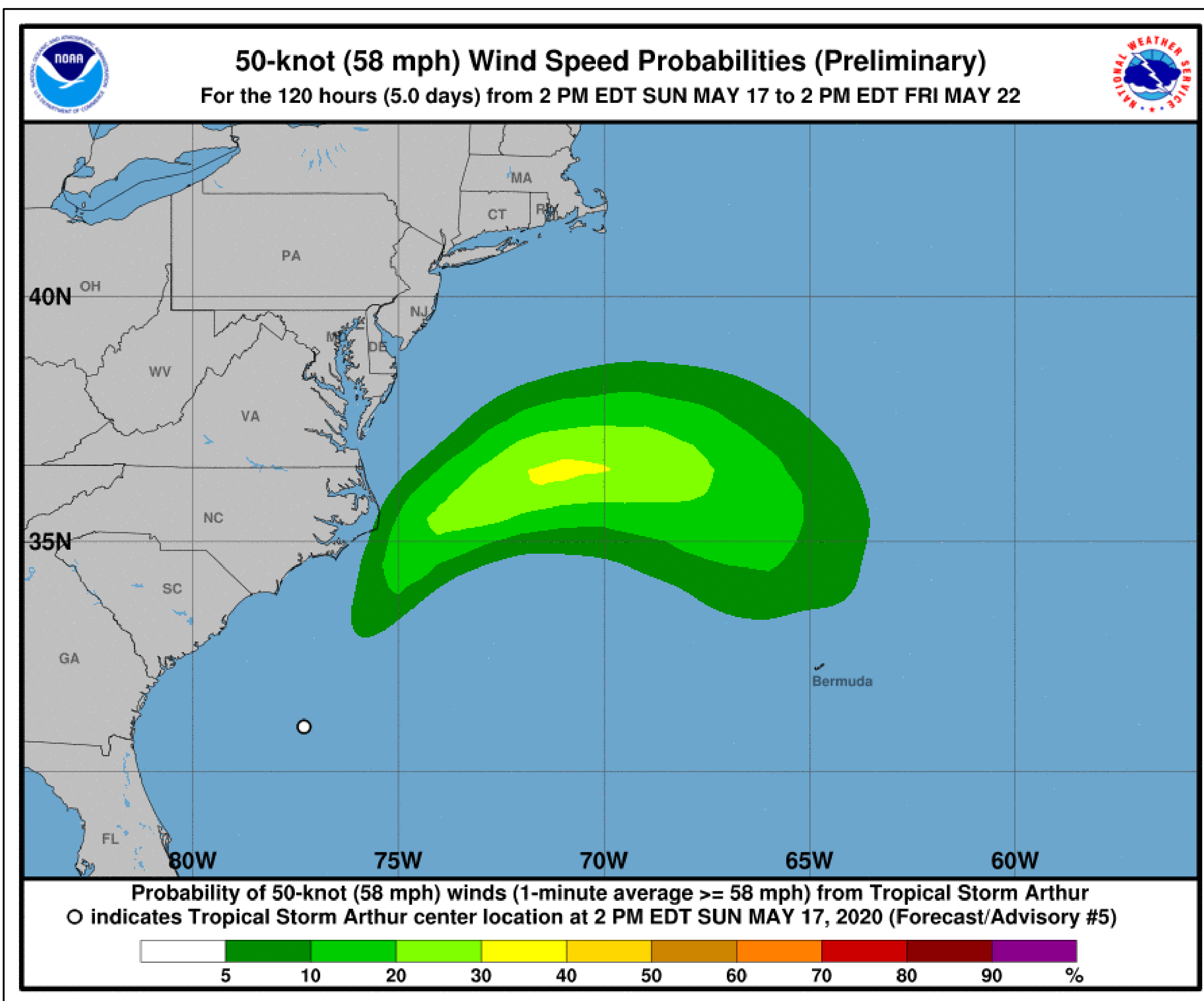
- The threat for tropical storm force winds is increasing, especially along the Outer Banks.
- Tropical Storm conditions could begin as early as sometime tonight.

50kt Wind Speed Probabilities

Tropical Storm Arthur



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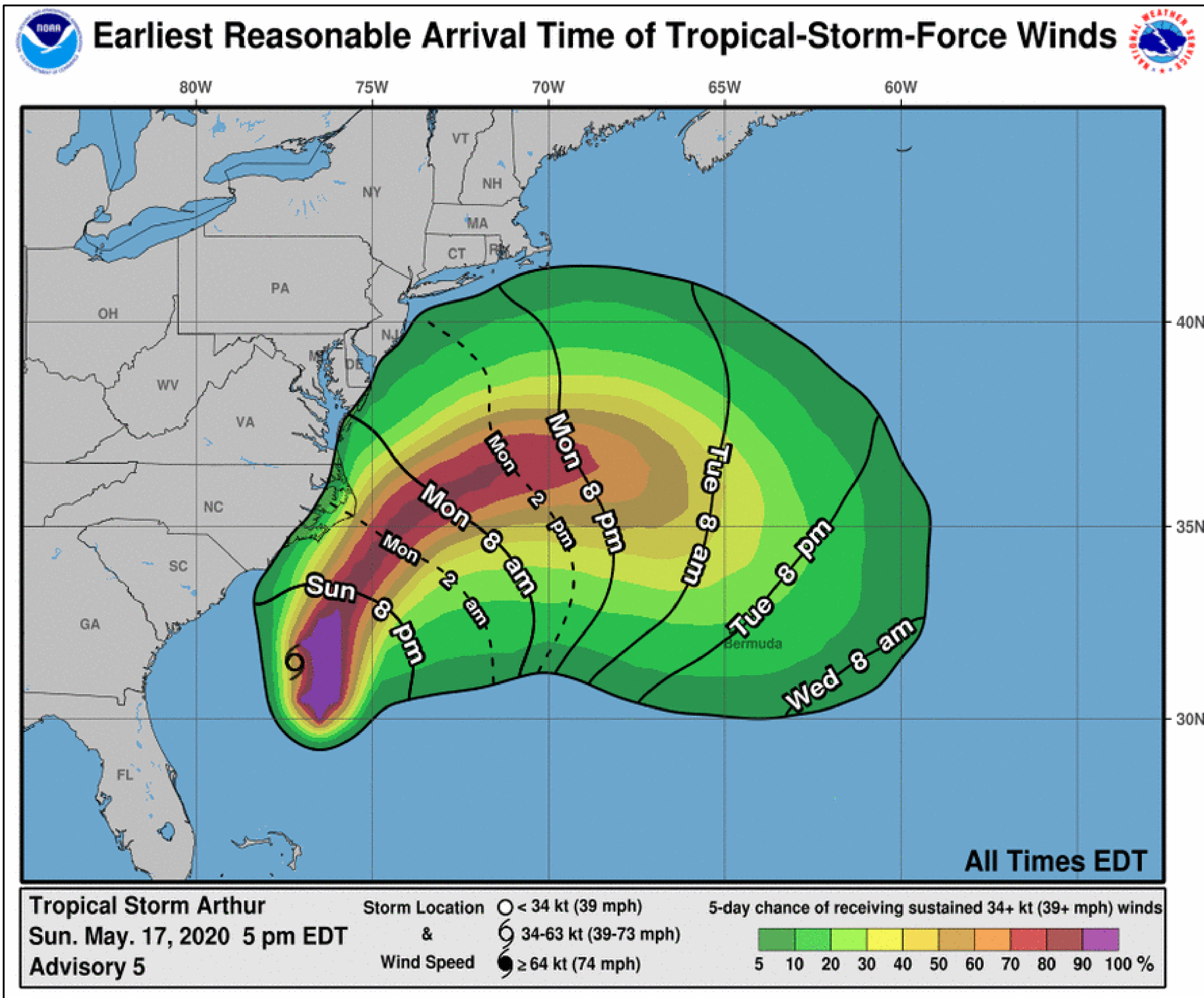
- The threat for 50 knot winds is increasing, especially over the coastal waters.

Earliest Reasonable Time of Arrival

Tropical Storm Arthur



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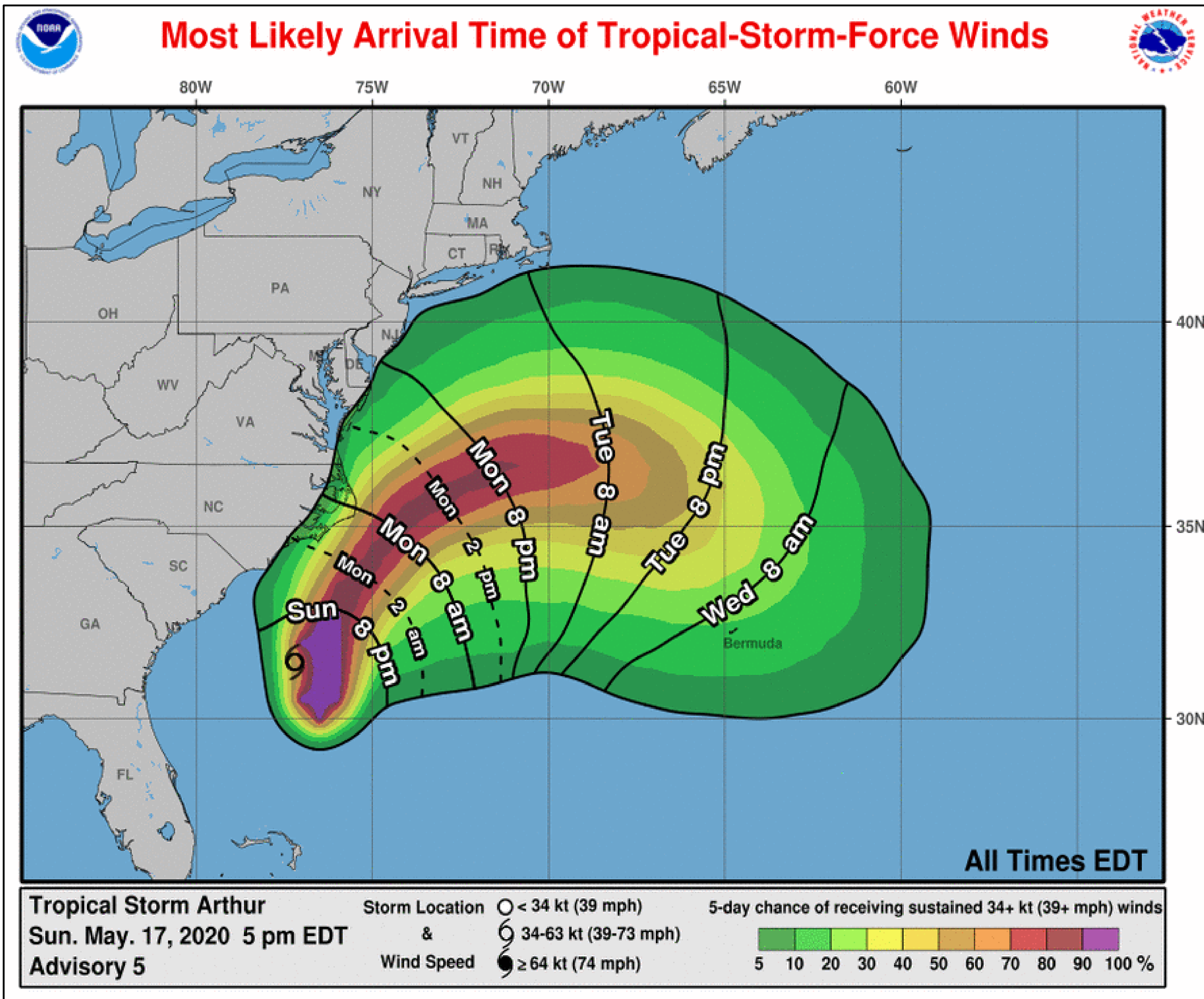
- The earliest reasonable time of arrival of Tropical Storm Force Winds for Eastern North Carolina would be sometime tonight.
- *However*, the most likely time this area could see Tropical Storm Force Winds will be during the day on Monday.

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



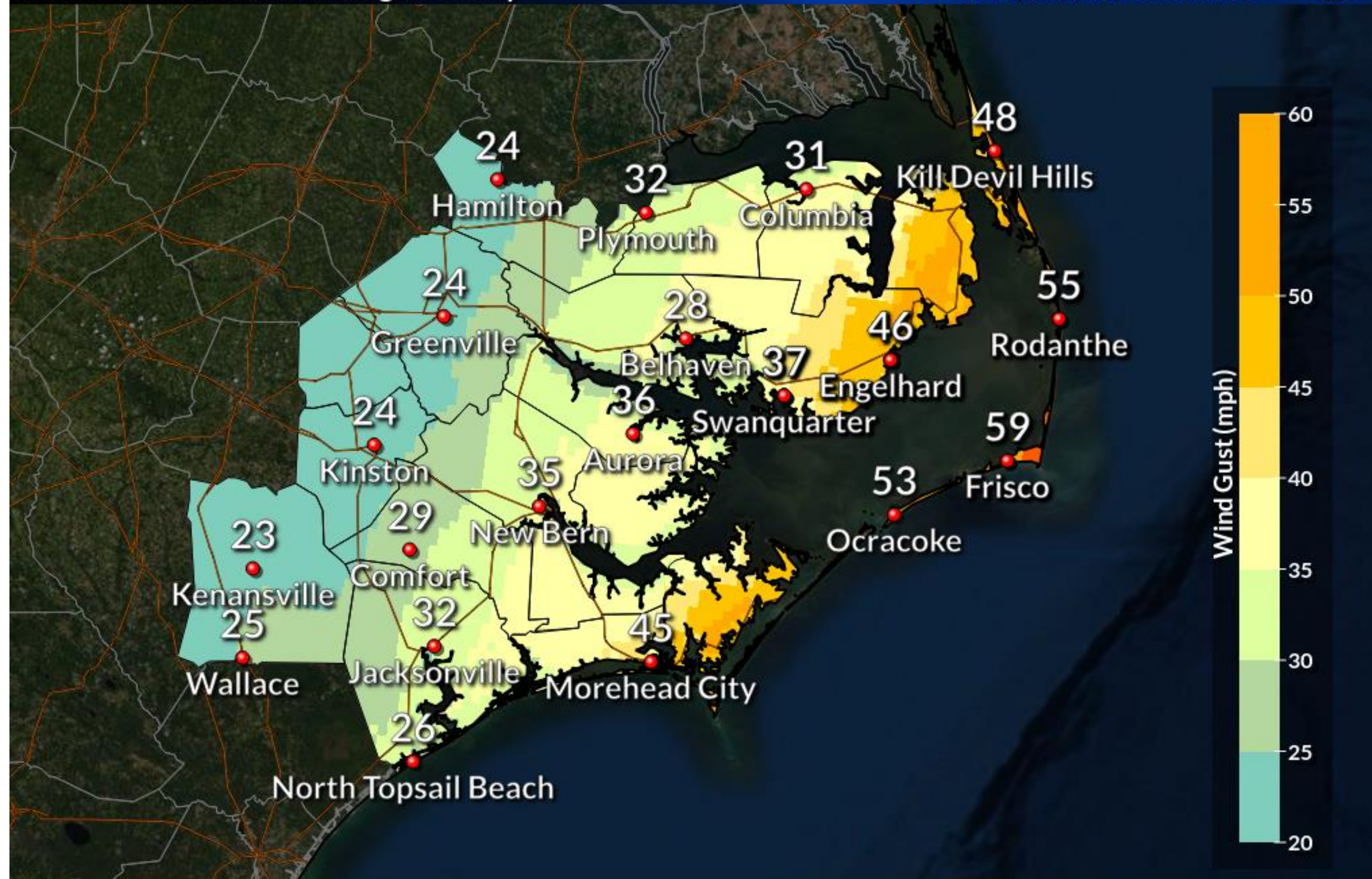
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Tropical Storm Arthur

Tropical Storm Arthur

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



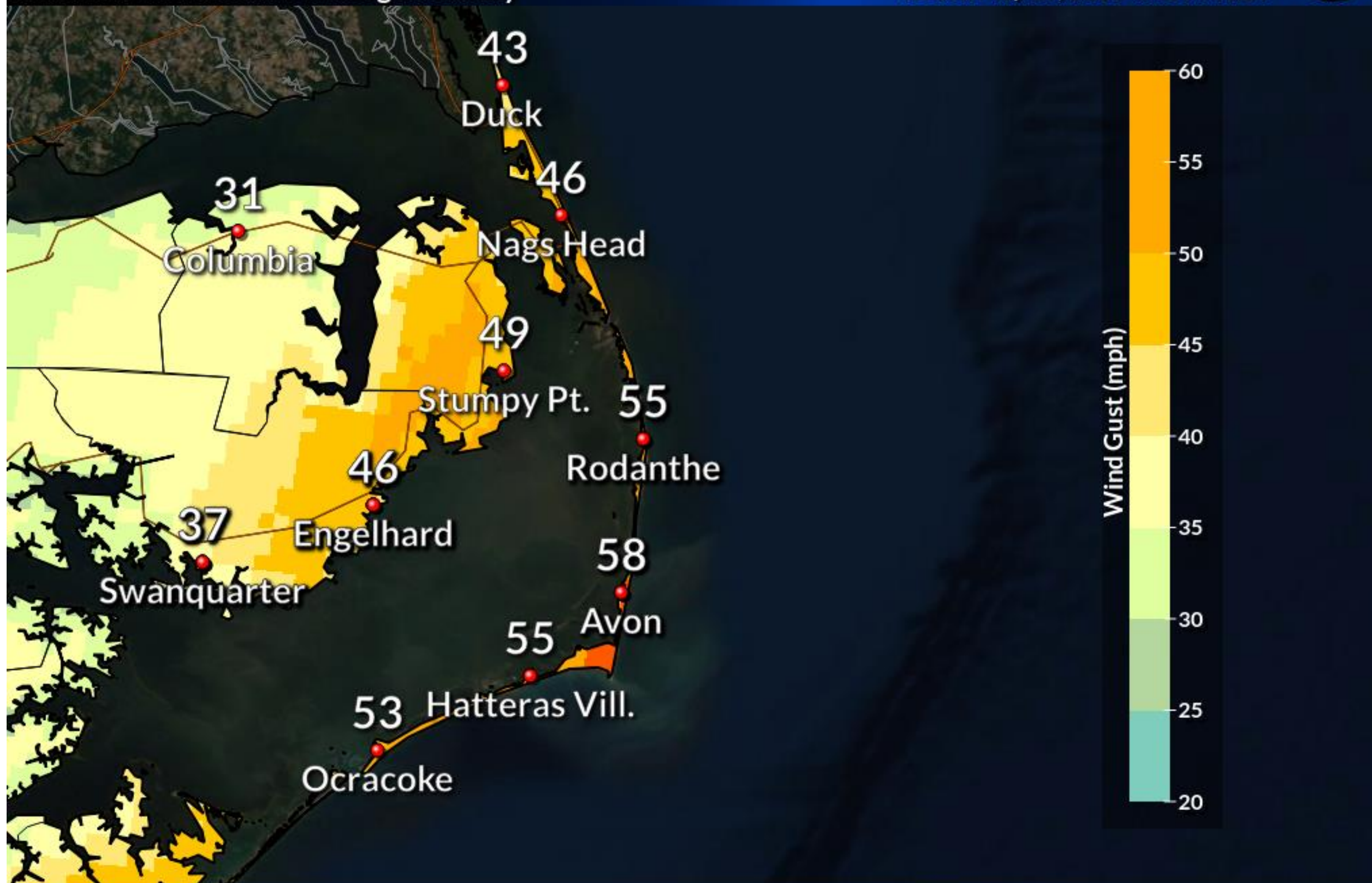
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Tropical Storm Arthur

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

Tropical Storm Arthur



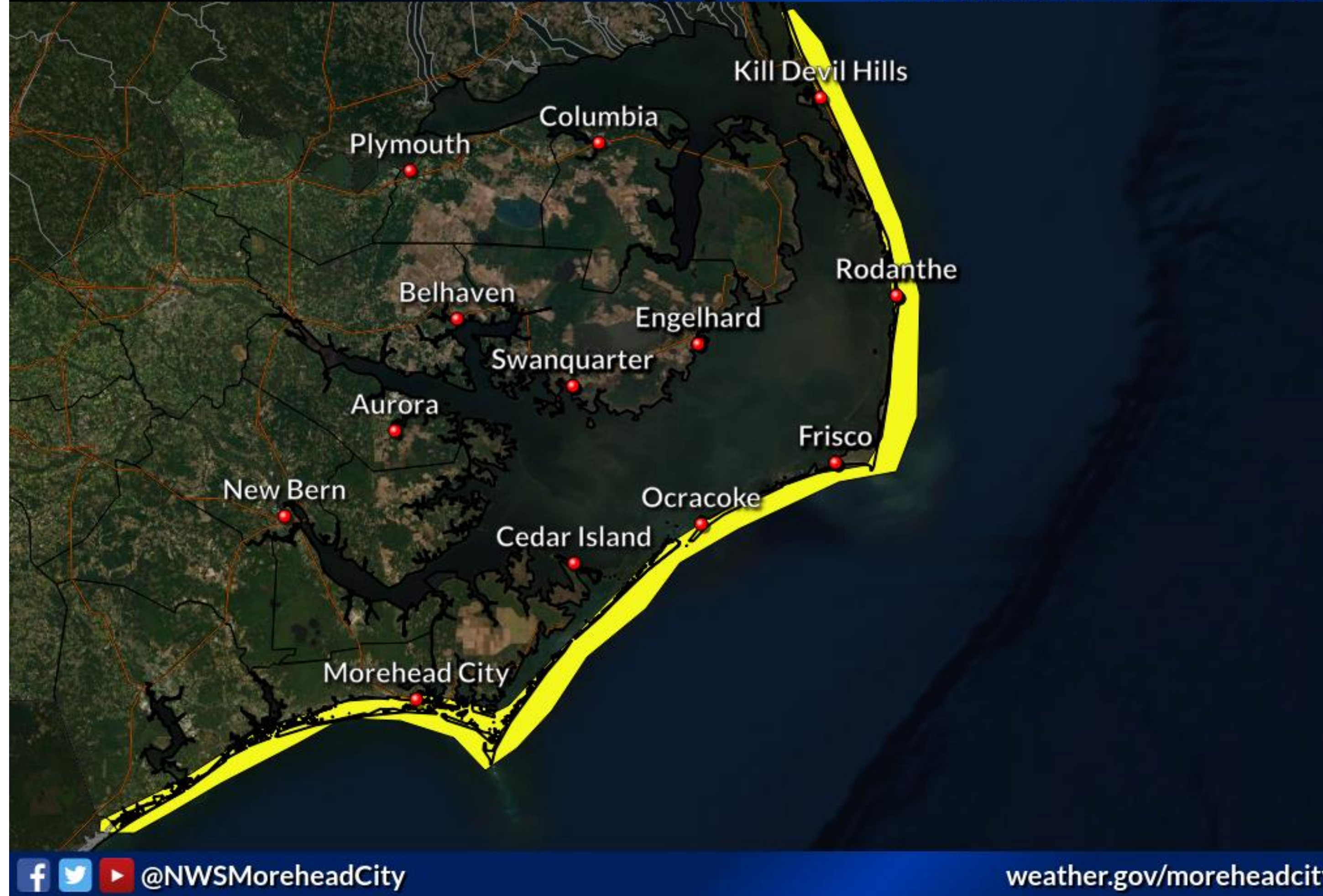
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Oceanside Impacts

Tropical Storm Arthur

Minor Coastal Flooding (Oceanside) Through Monday Night

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- Minor inundation from storm surge of up to 2 feet (above normally dry ground) in low-lying areas in the yellow shaded area.
- Moderate beach erosion. Heavy surf also breaching dunes, mainly in usually vulnerable locations.
- The water will rise fastest south of Cape Lookout mainly tonight into early Monday. The water will rise fastest north of Cape Lookout Monday and Monday night.

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Potential Storm Surge Impacts

Tropical Storm Arthur



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Tropical Storm Arthur

Minor Coastal Flooding (Sound Side) Monday/Monday Evening

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Sound Side Impacts

- Minor inundation from storm surge of up to 2 feet (above normally dry ground) in low-lying areas in the yellow shaded area.
- The water will rise fastest over the Lower Neuse River and Downeast Carteret County Monday morning.
- The water will rise fastest near Ocracoke and Hatteras Island mid Monday morning to Monday evening

Potential Storm Surge Impacts

Tropical Storm Arthur



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Tropical Storm Arthur

Minor Coastal Flooding (Sound Side) Monday/Monday Evening

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Sound Side Impacts

- Minor inundation from storm surge of up to 2 feet (above normally dry ground) in low-lying areas in the yellow shaded area.
- The water will rise the fastest Monday afternoon and evening.

Flooding Rain Threat

Tropical Storm Arthur

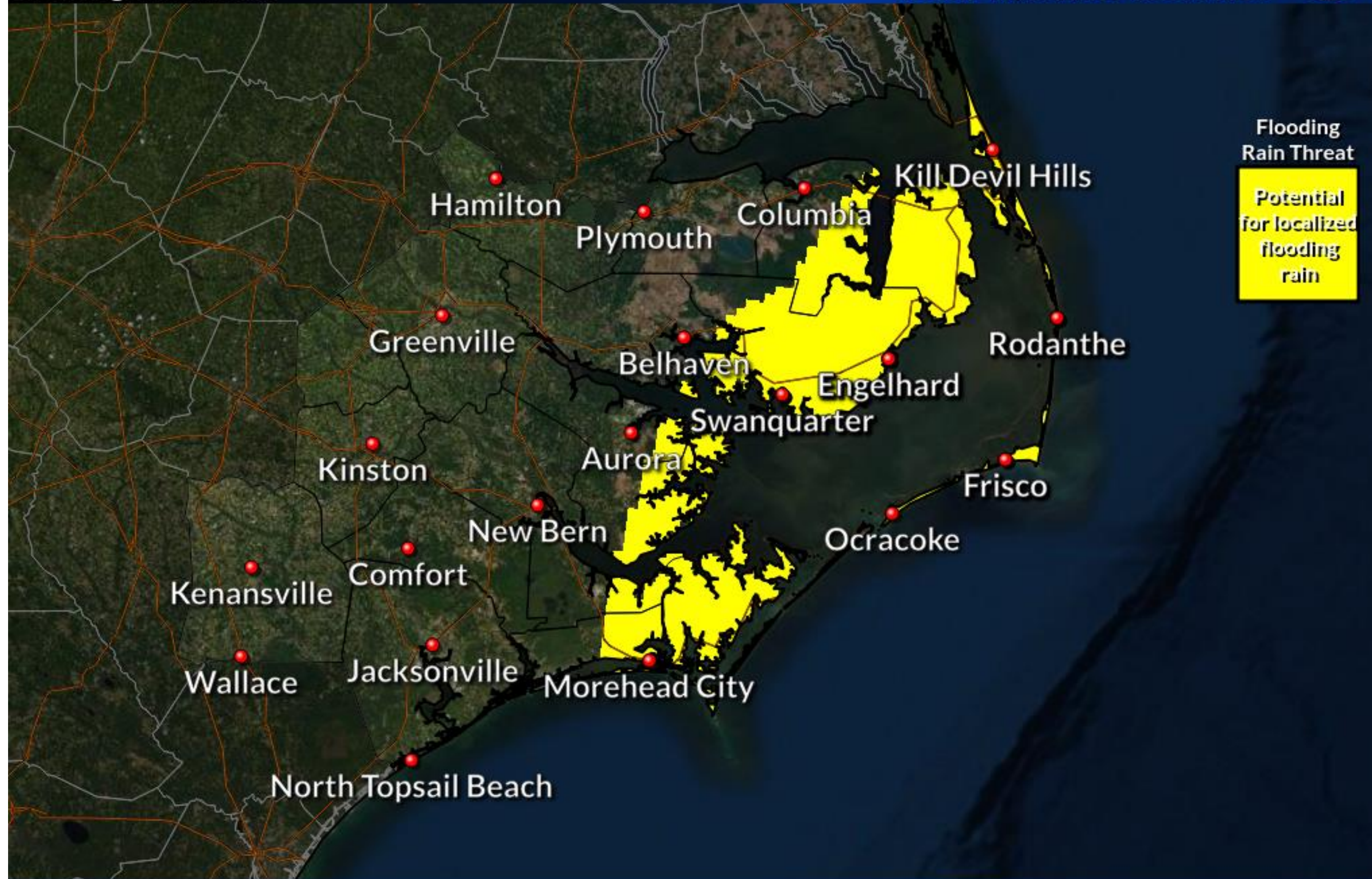


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Tropical Storm Arthur

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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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.



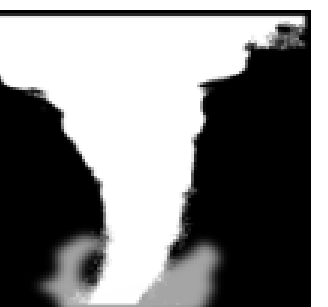
Strong wind gusts expected, especially along the coast and the Outer Banks.



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 Monday 7:00 AM 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