

TIMELINE & KEY TAKEAWAYS

September 3, 2019 – 5AM



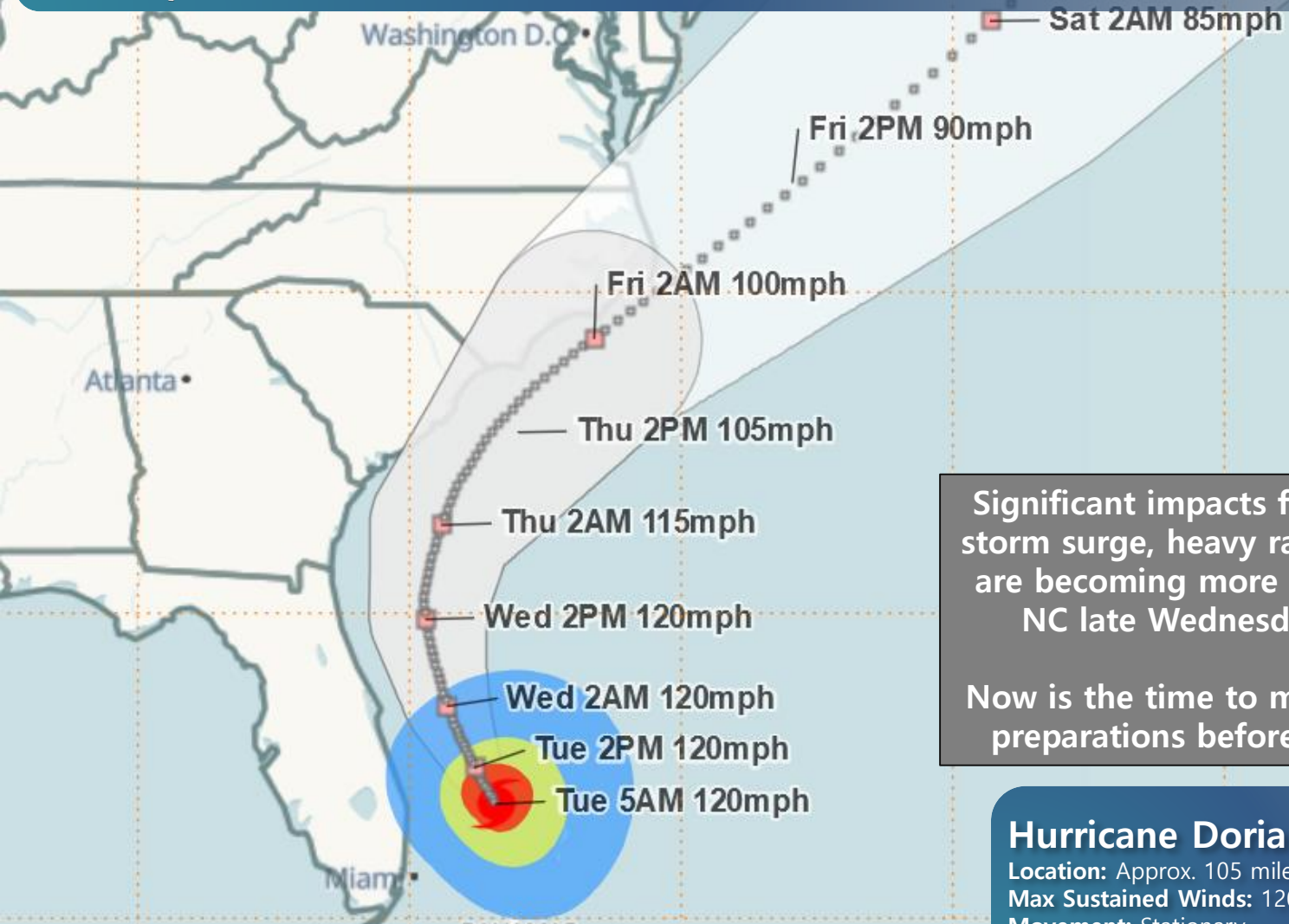
TUE	WED	THU	FRI	SAT
Isolated to widely scattered showers and thunderstorms possible for portions of eastern NC. Rainfall amounts will remain light.	Light rain may begin with the outer bands as Dorian approaches the NC Coast. Tropical storm force winds and heavy rain are most likely to arrive late Wednesday night across southeastern NC.	The greatest impacts from Hurricane Dorian are expected Thursday into Friday. The heaviest rains are expected Thursday through early Friday. Life-threatening inundation will be possible along the coast, sounds and adjacent rivers. The center of Dorian is expected to be NE of the coast by early Friday afternoon. Conditions will improve from south to north during the day Friday.		Conditions continue to improve with mostly sunny skies. Flooding may be ongoing Heavy surf is possible.

Hurricane Dorian

- 1) The greatest impacts are expected late Wednesday night into Friday for Coastal NC
- 2) Significant impacts are becoming more likely across portions of eastern North Carolina:
 - Life-threatening storm surge is possible late Wednesday night - Friday
 - Heavy rainfall amounts of 5-10", with locally higher amounts up to 15"
 - Tropical storm force winds are likely across eastern NC
- 3) Lesser impacts are expected further inland

HURRICANE DORIAN

September 3, 2019 – 5AM



Significant impacts from life-threatening storm surge, heavy rain, and strong winds are becoming more likely across eastern NC late Wednesday night - Friday.

Now is the time to make final emergency preparations before the storm's onset.

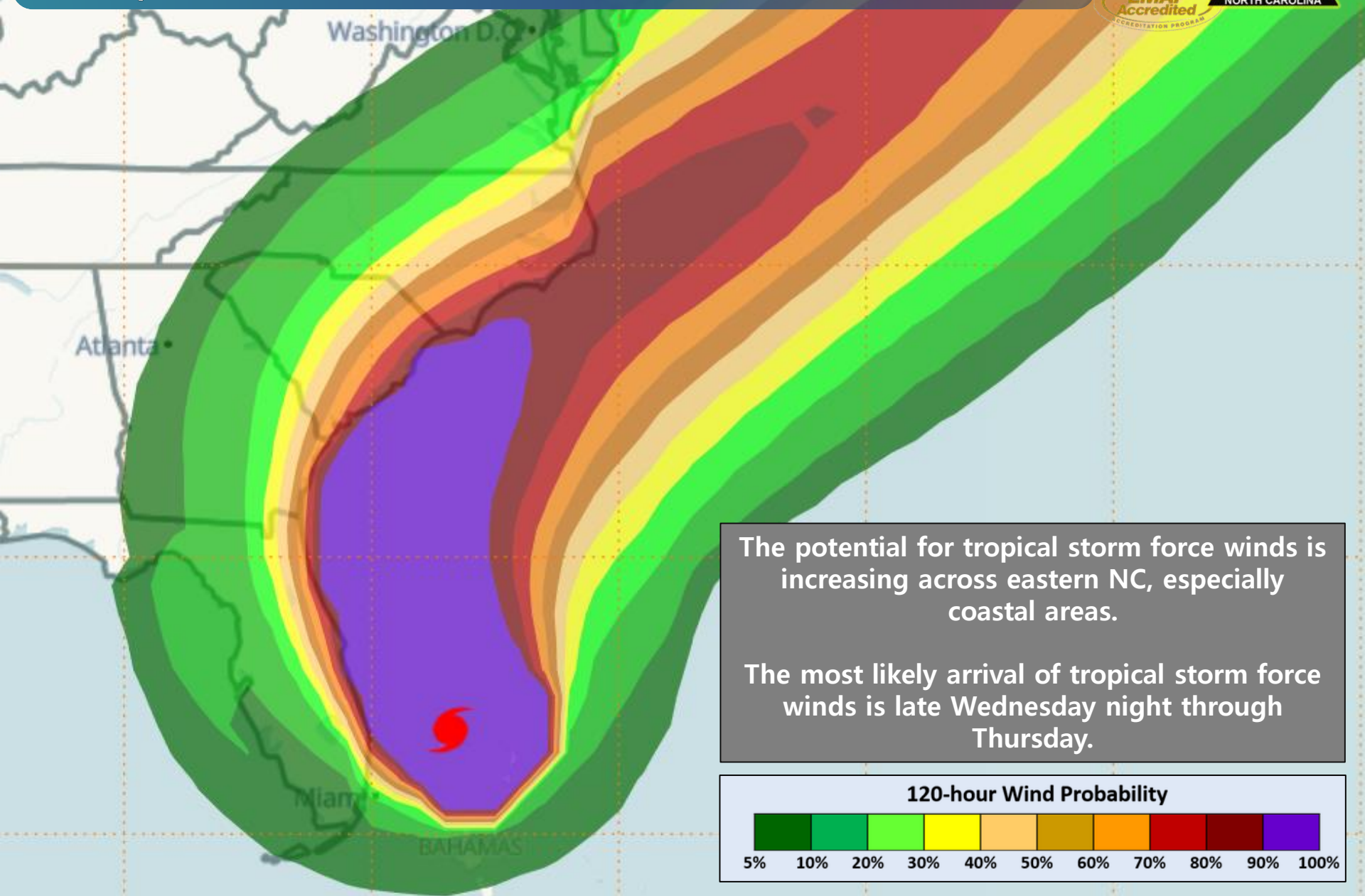
Hurricane Dorian [5AM TUE]
Location: Approx. 105 miles E of West Palm Beach, FL
Max Sustained Winds: 120 MPH
Movement: Stationary
Min Central Pressure: 28.06" (950 mb)

Storm Track Wind/Symbol Key			
Sustained:	Tropical Storm ≥ 34 kt/39mph	Strong TS ≥ 50 kt/58mph	Hurricane ≥ 64 kt/74mph
Track Symbols:	Depression	Tropical Storm	Hurricane
	Post-Tropical	Potential-Tropical	Remnants

The NHC Track Forecast Cone is NOT an Impact Cone. Impacts will be felt far from the center of the storm.

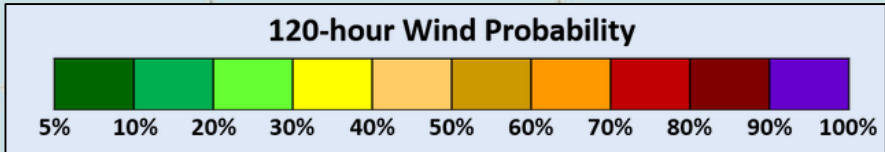
TROPICAL-STORM-FORCE WIND SPEED PROBABILITIES

September 3, 2019 – 5AM



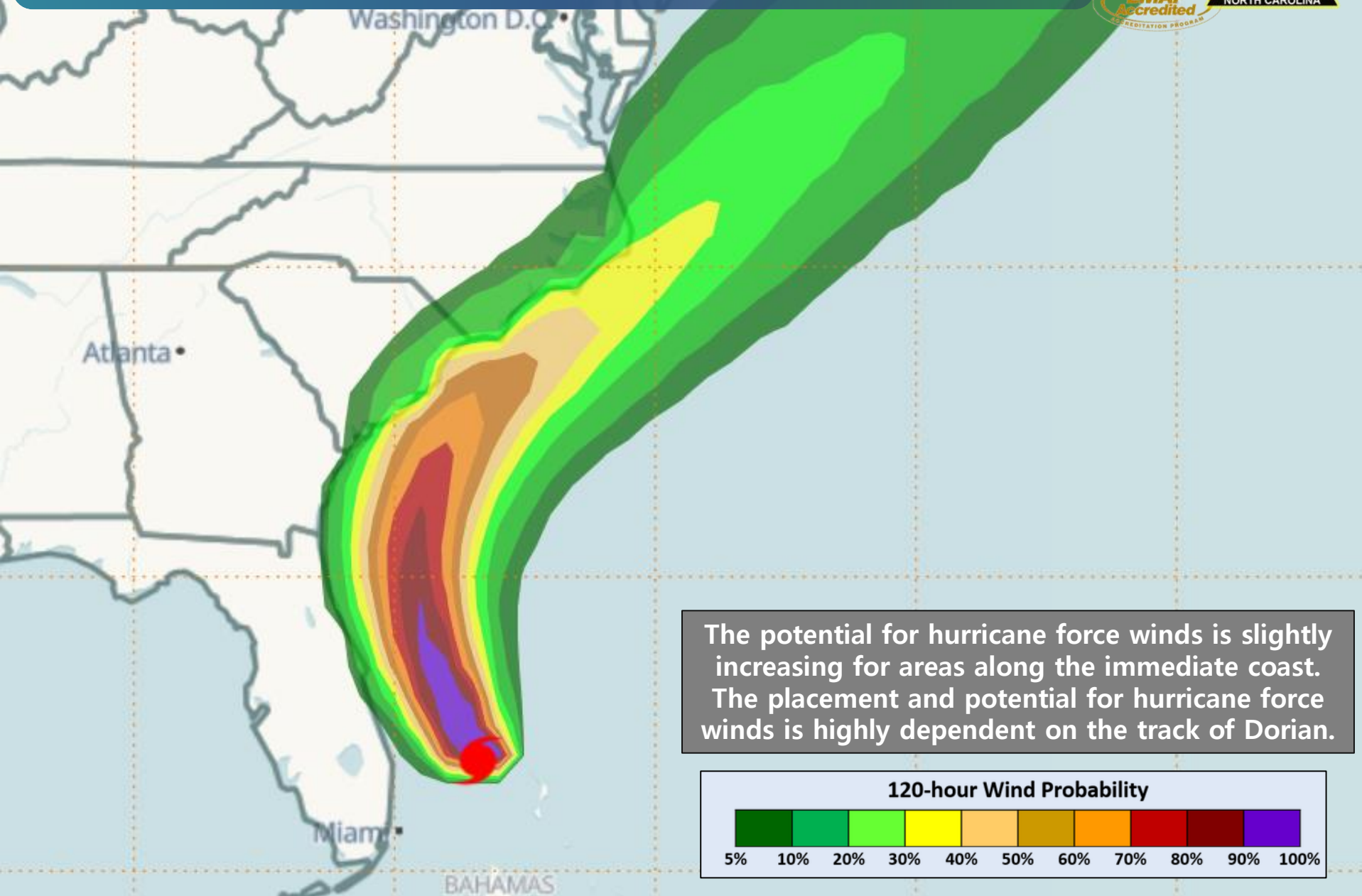
The potential for tropical storm force winds is increasing across eastern NC, especially coastal areas.

The most likely arrival of tropical storm force winds is late Wednesday night through Thursday.

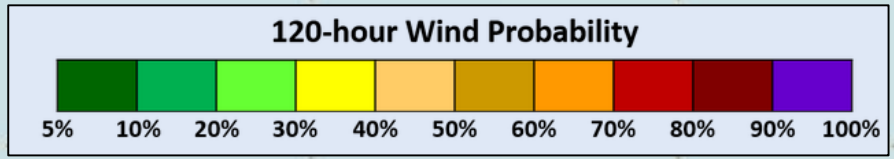


HURRICANE-FORCE WIND SPEED PROBABILITIES

September 3, 2019 – 5AM

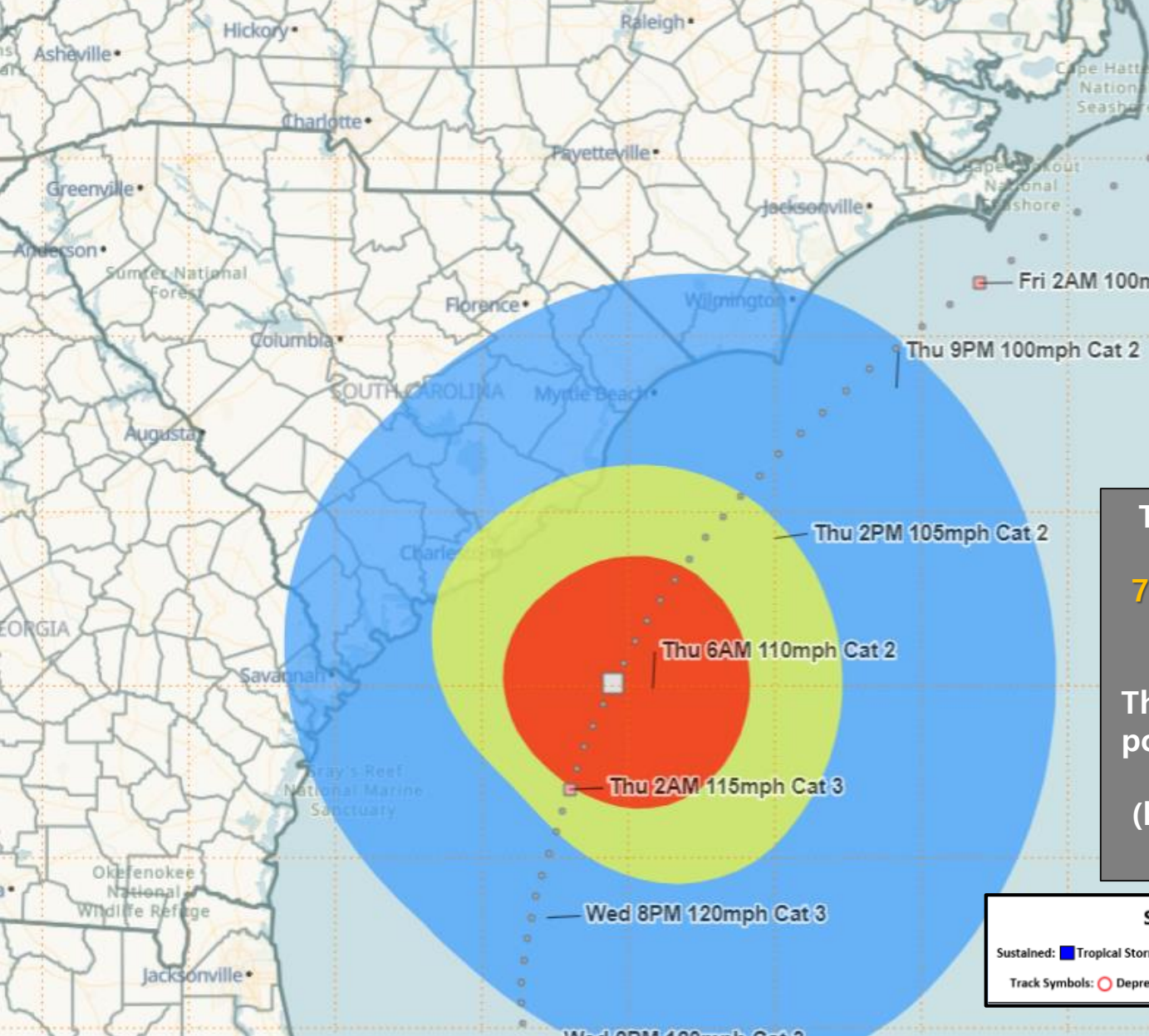


The potential for hurricane force winds is slightly increasing for areas along the immediate coast. The placement and potential for hurricane force winds is highly dependent on the track of Dorian.



FORECAST WIND FIELD

September 3, 2019 – 5AM Forecast



Tropical storm force (blue) wind speed extent at **7AM Thursday** based on the current forecast.

This graphic shows the areas potentially being affected by sustained tropical force (blue/yellow) and hurricane force (red). winds

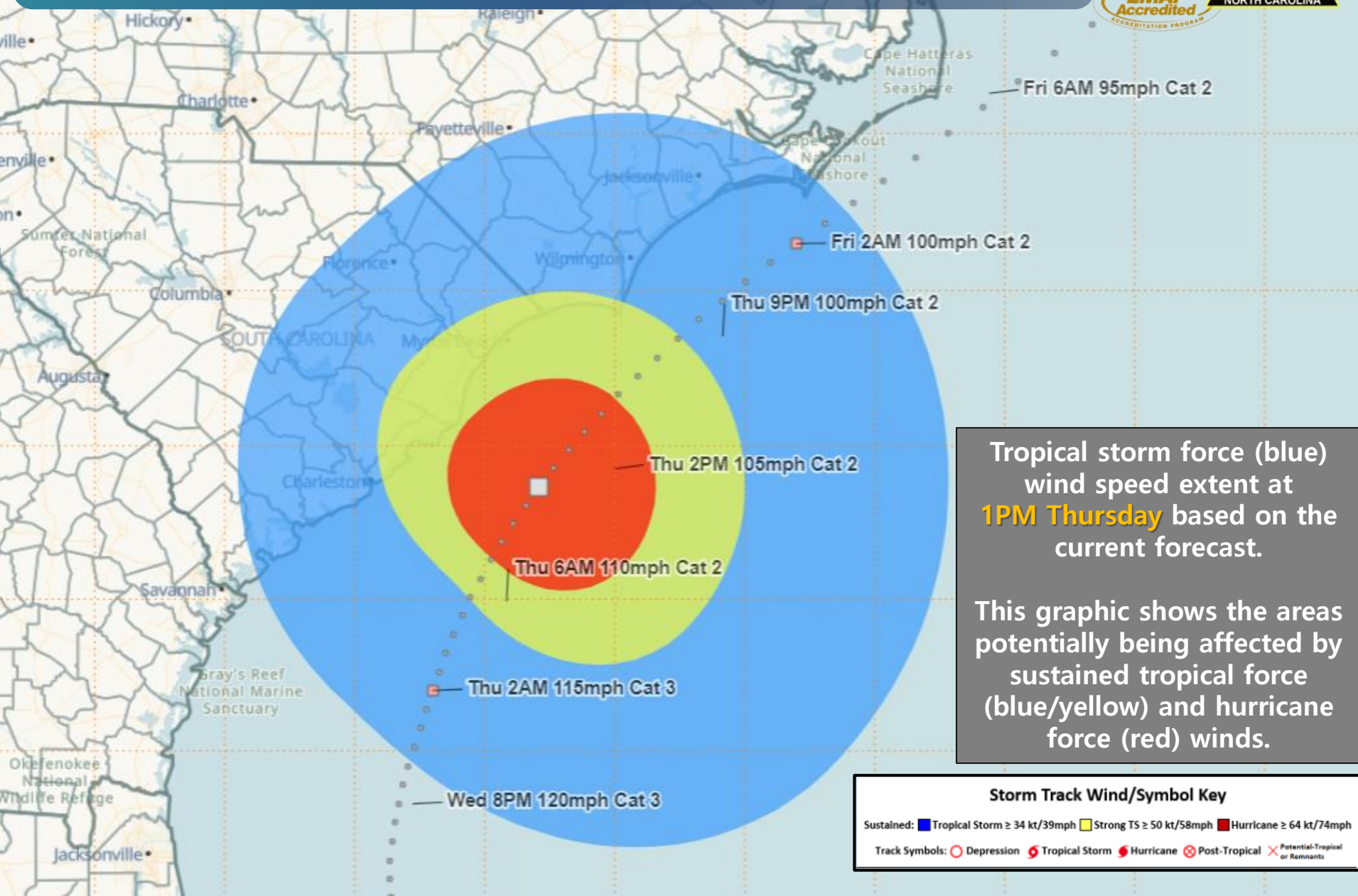
Storm Track Wind/Symbol Key

Sustained: ■ Tropical Storm ≥ 34 kt/39mph ■ Strong TS ≥ 50 kt/58mph ■ Hurricane ≥ 64 kt/74mph

Track Symbols: ○ Depression ● Tropical Storm ● Hurricane ⊗ Post-Tropical × Potential-Tropical or Remnants

FORECAST WIND FIELD

September 3, 2019 – 5AM Forecast



Tropical storm force (blue) wind speed extent at 1PM Thursday based on the current forecast.

This graphic shows the areas potentially being affected by sustained tropical force (blue/yellow) and hurricane force (red) winds.

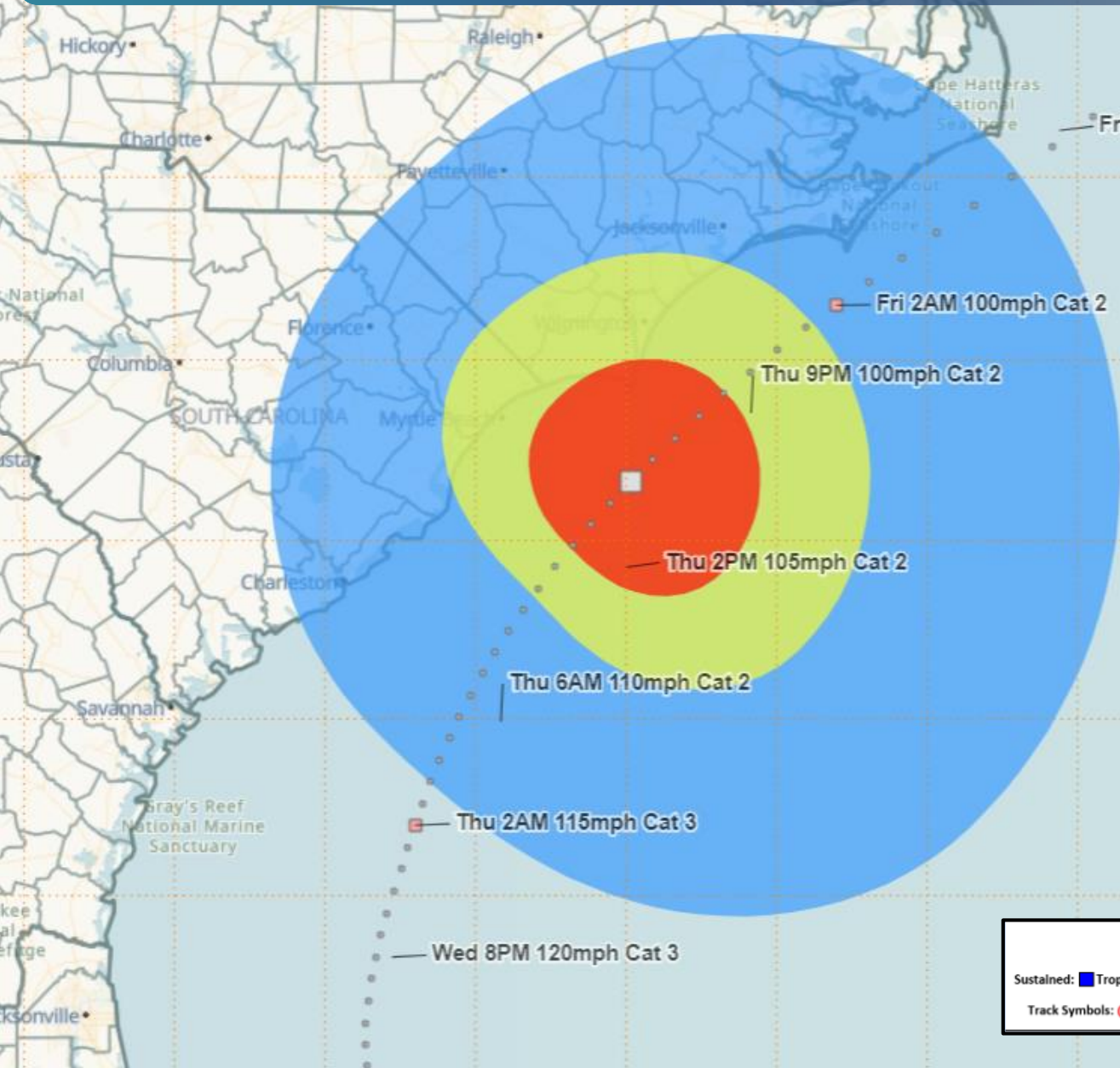
Storm Track Wind/Symbol Key

Sustained: ■ Tropical Storm ≥ 34 kt/39mph ■ Strong TS ≥ 50 kt/58mph ■ Hurricane ≥ 64 kt/74mph

Track Symbols: ○ Depression ⊙ Tropical Storm ⦿ Hurricane ⊗ Post-Tropical ✕ Potential-Tropical or Remnants

FORECAST WIND FIELD

September 3, 2019 – 5AM Forecast



Tropical storm force (blue) wind speed extent at **6PM Thursday** based on the current forecast.

This graphic shows the areas potentially being affected by sustained tropical force (blue/yellow) and hurricane force (red) winds.

Storm Track Wind/Symbol Key

Sustained: ■ Tropical Storm ≥ 34 kt/39mph ■ Strong TS ≥ 50 kt/58mph ■ Hurricane ≥ 64 kt/74mph

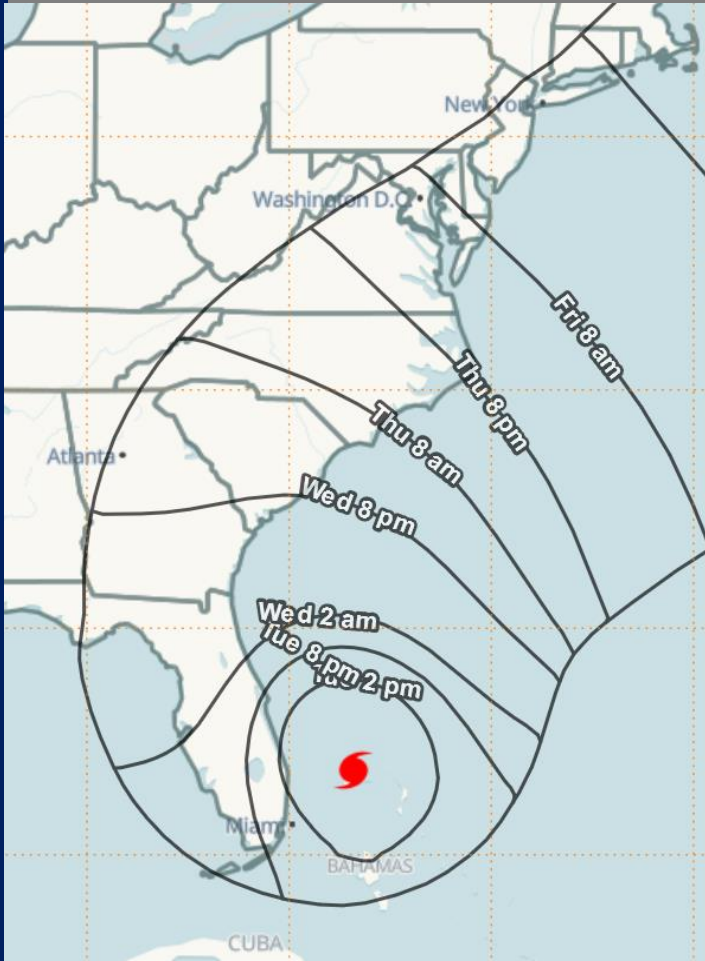
Track Symbols: ○ Depression ● Tropical Storm ● Hurricane ⊗ Post-Tropical × Potential-Tropical or Remnants

ARRIVAL OF TSF WINDS

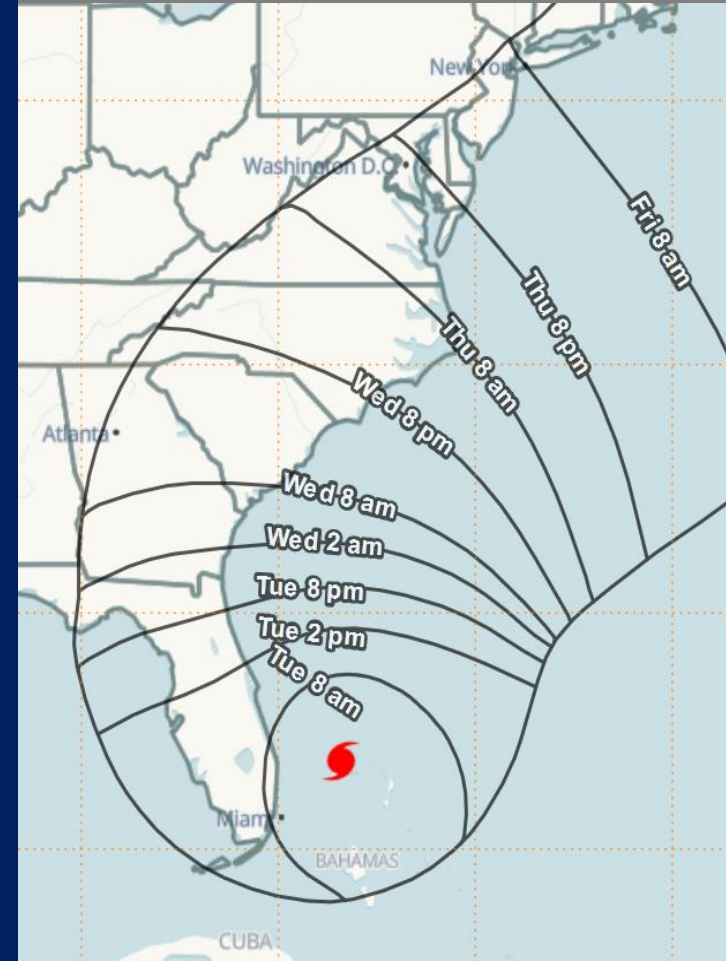
September 3, 2019 – 5AM



Most Likely Arrival



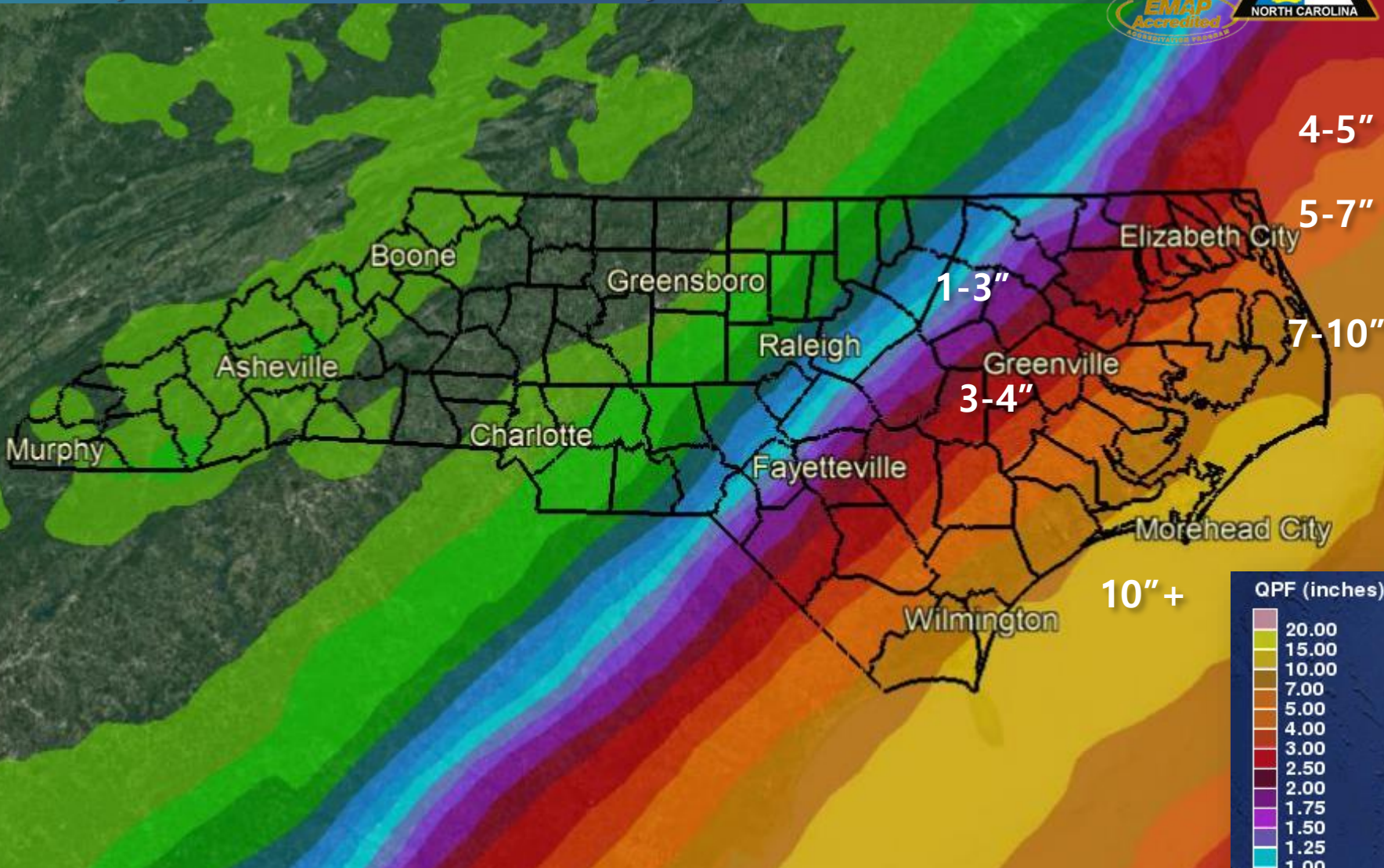
Earliest Reasonable Arrival



The most likely arrival time of tropical storm force winds is late Wednesday night and through the day Thursday. However, tropical storm force winds could begin as early as Wednesday PM across southeastern NC.

5-DAY RAINFALL FORECAST

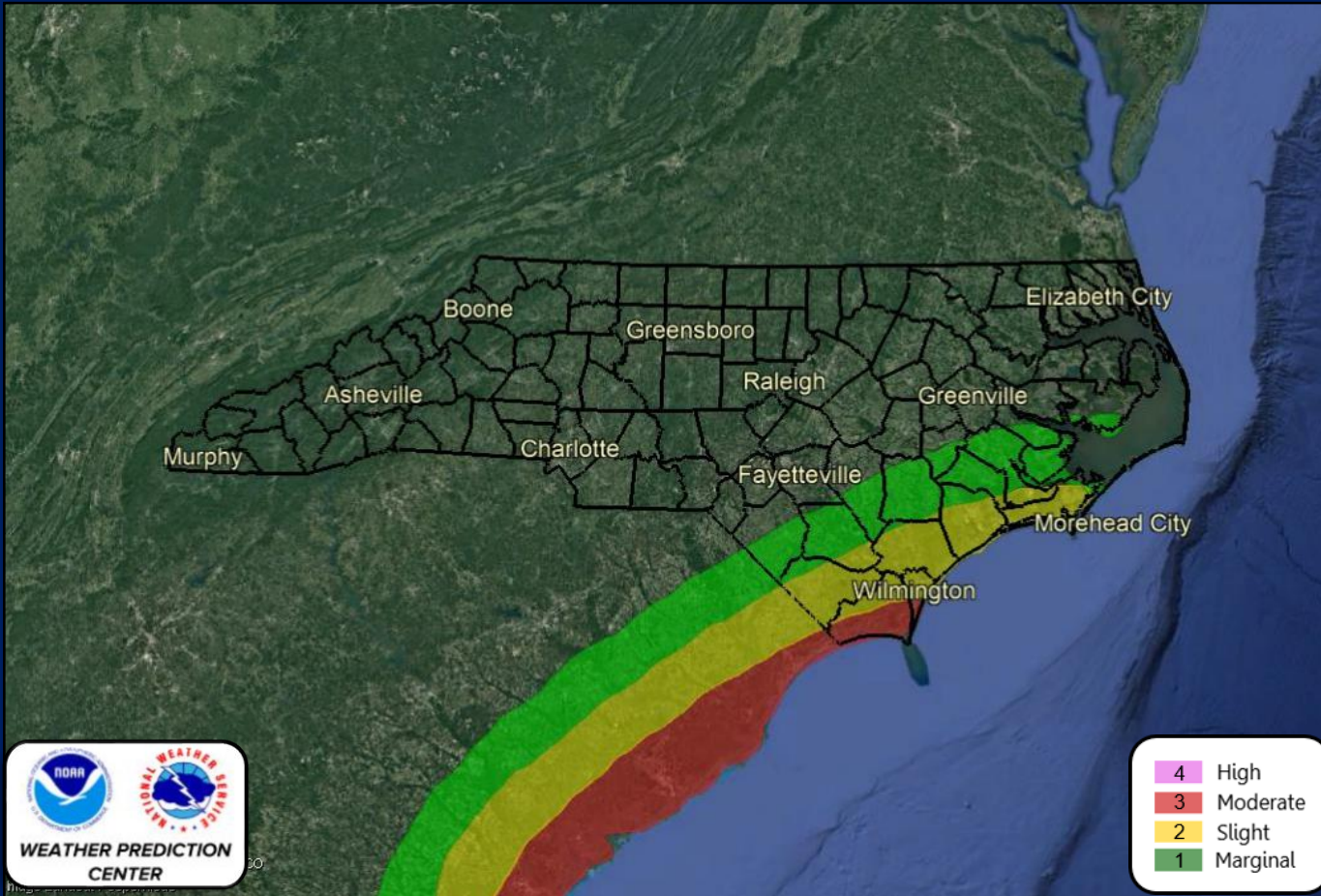
8AM Tuesday, September 3, 2019 – 8AM Sunday, September 8, 2019



Rainfall amounts shown are averages. Locally higher amounts are possible. Higher rainfall amounts will likely result in flash flooding and possible river flooding. The heaviest rain is expected late Wednesday night – early Friday.

WEDNESDAY'S FLASH FLOODING THREAT

WEATHER PREDICTION CENTER (VALID 8AM 9/4/19 – 8AM 9/5/19)



MARGINAL (MRGL) Isolated flash floods possible Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	SLIGHT (SLGT) Scattered flash floods possible Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.
MODERATE (MDT) Numerous flash floods likely Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	HIGH (HIGH) Widespread flash floods expected Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
Flash flooding near me?	Flash Flooding NO Flash Flooding

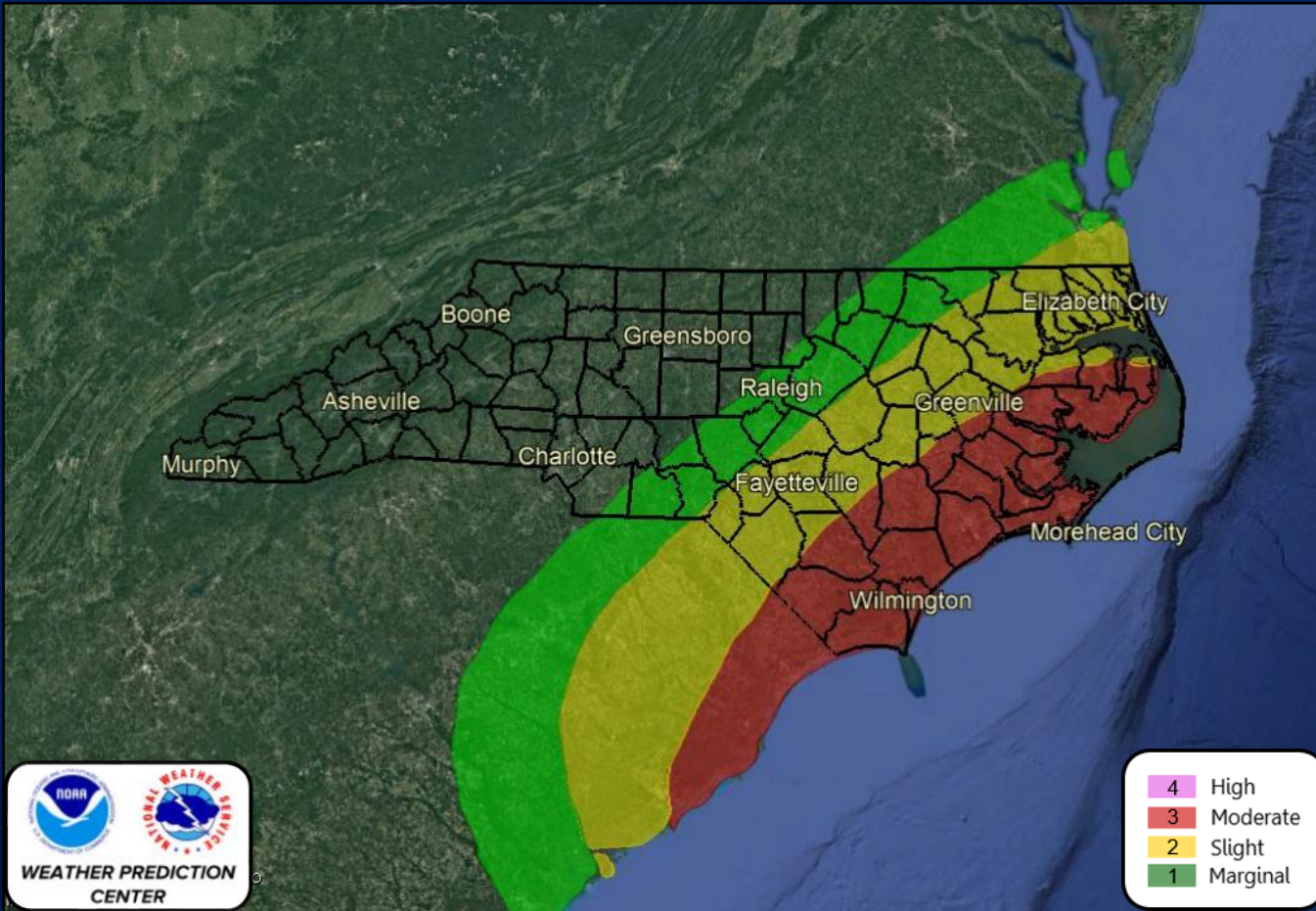
The Threat of Flash Flooding Will Increase Wednesday Night:

- ✓ Heavy rain will move into southeastern NC Wednesday evening.
- ✓ The threat of flash flooding will expand on Thursday.



THURSDAY'S FLASH FLOODING THREAT

WEATHER PREDICTION CENTER (VALID 8AM 9/5/19 – 8AM 9/6/19)



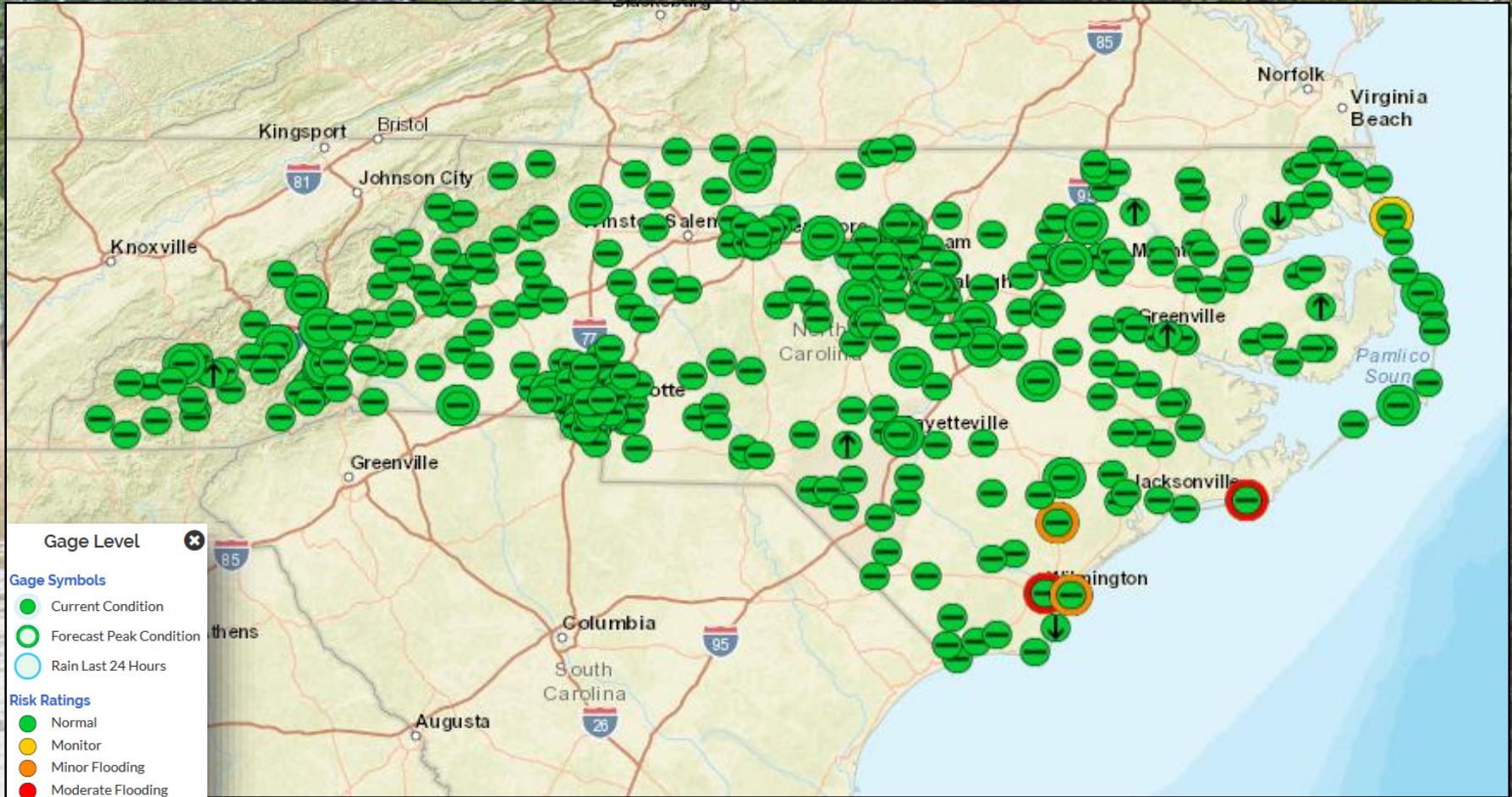
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Flash flooding near me?	Flash Flooding NO Flash Flooding

The Greatest Risk of Flash Flooding Will Be Thursday – Friday AM:

- ✓ Widespread 5-10", with isolated amounts up to 15" closer to the coast
- ✓ Additional heavy rain is possible through midday Friday across NE NC

RIVER FLOOD OUTLOOK

September 3, 2019 – 9:00AM



Gage Level

Gage Symbols

- Current Condition
- Forecast Peak Condition
- Rain Last 24 Hours

Risk Ratings

- Normal
- Monitor
- Minor Flooding
- Moderate Flooding
- Major Flooding
- Not Risk Rated
- Out of Service

Trend

- Rising
- Falling
- Constant

HAZARDS SUMMARY: DORIAN

September 3, 2019 – 5AM



HAZARD	DETAILS	IMPACTS	TIMING
Storm Surge	Too early for specific details	Life-threatening storm surge inundation will be possible along the coast, sounds, and adjacent rivers.	Wed Night - Friday
Inland Flooding	5-10" near the coast (isolated 15") 2-6" east of I-95 <3" across central NC	Rainfall may cause life-threatening flash flooding. Greatest threat east of I-95.	Wed Night – Friday
Damaging Winds	Tropical storm force winds possible; lower chance of hurricane force winds - highest potential near the coast	Downed trees, widespread power outages, structure damage. Tropical storm force winds will most likely begin late Wed night across SE NC.	TS Force Winds: Late Wed Night – Friday
Tornadoes	Isolated tornadoes are possible across far eastern NC Wed night – Thu night.		Wed Night – Thu Night
Marine & Coastal	Rip currents, dangerous surf, and beach erosion likely		Monday – Friday

Threat Levels:

None

Low

Moderate

High

Extreme