

HAZARDS SUMMARY: DORIAN

September 4, 2019 – 5PM



HAZARD	DETAILS	IMPACTS	TIMING
Storm Surge	4-7' south of Cape Lookout 4-6' Cape Lookout to Duck (including Pamlico/Albemarle Sounds & Neuse/Pamlico Rivers) 2-4' north of Duck	Life-threatening storm surge inundation will be possible along the coast, sounds, and adjacent rivers.	Wed Night – Friday *High tide Thu PM, Fri AM, Fri PM*
Inland Flooding	6-10" in Eastern NC (isolated 15") 3-6" S and E of Triangle 1-3" across central NC	Rainfall may cause life-threatening flash flooding and some river flooding. Greatest threat east of I-95.	Wed Night – Friday
Damaging Winds	Coast: 60-90, gusts 75-110 mph Inland E NC: 30-60, gusts 45-75 mph Central NC: 20-30, Gusts 30-45 mph (strongest east of US-1)	Downed trees, widespread power outages, structure damage. Tropical storm force winds will most likely begin early Thu AM across SE NC.	TS Force Winds: Early Thursday AM – Friday
Tornadoes	Isolated tornadoes are possible across eastern NC Wed night – Thu night, with the greatest threat near the coast.		Wed Night – Thu Night
Marine & Coastal	Rip currents & dangerous surf. Severe beach erosion with significant dune loss. Ocean overwash will make roads impassable especially at periods of high tide.		Through Friday

Threat Levels:

None

Low

Moderate

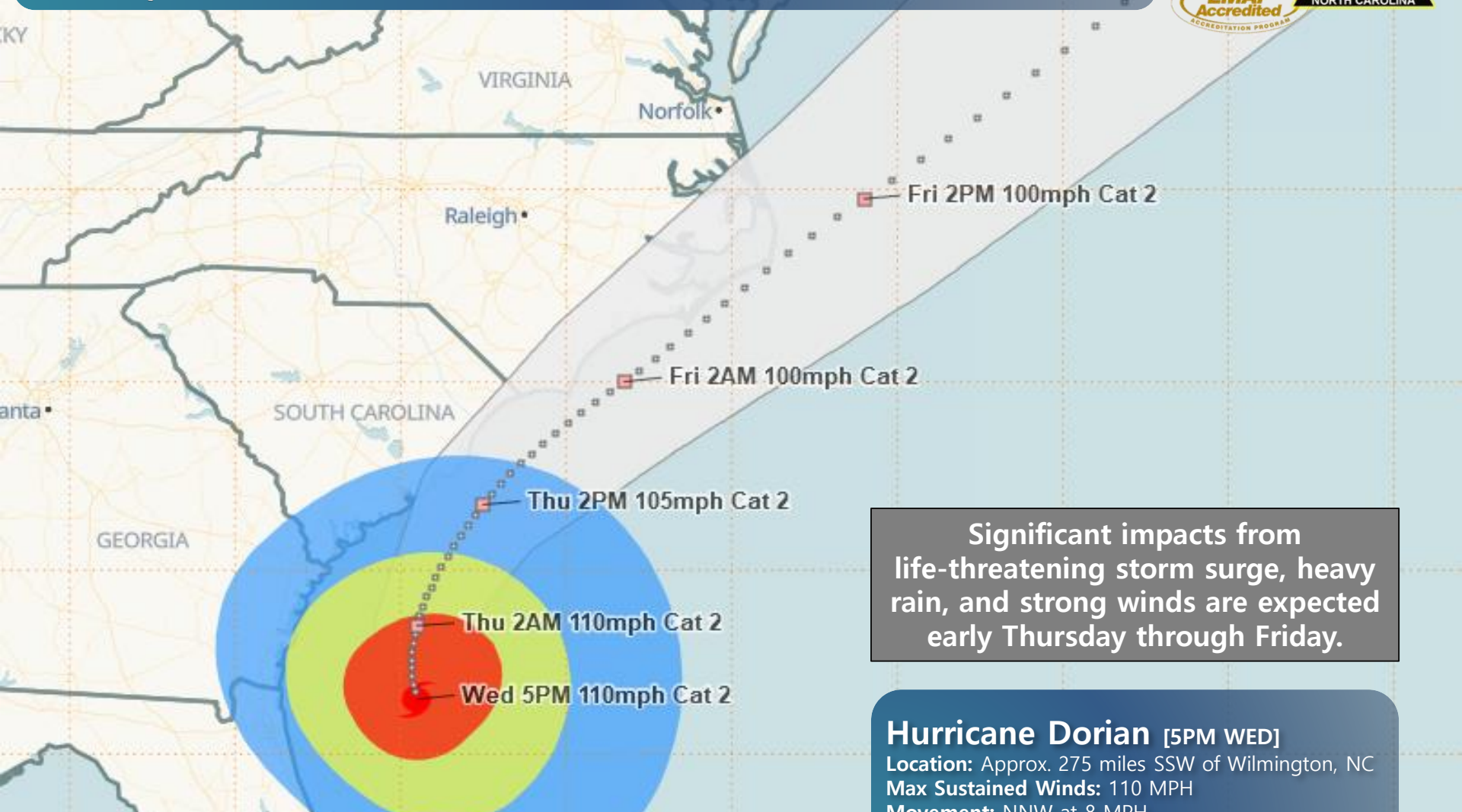
High

Extreme

HURRICANE DORIAN

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Sat 2AM 90mph



Significant impacts from life-threatening storm surge, heavy rain, and strong winds are expected early Thursday through Friday.

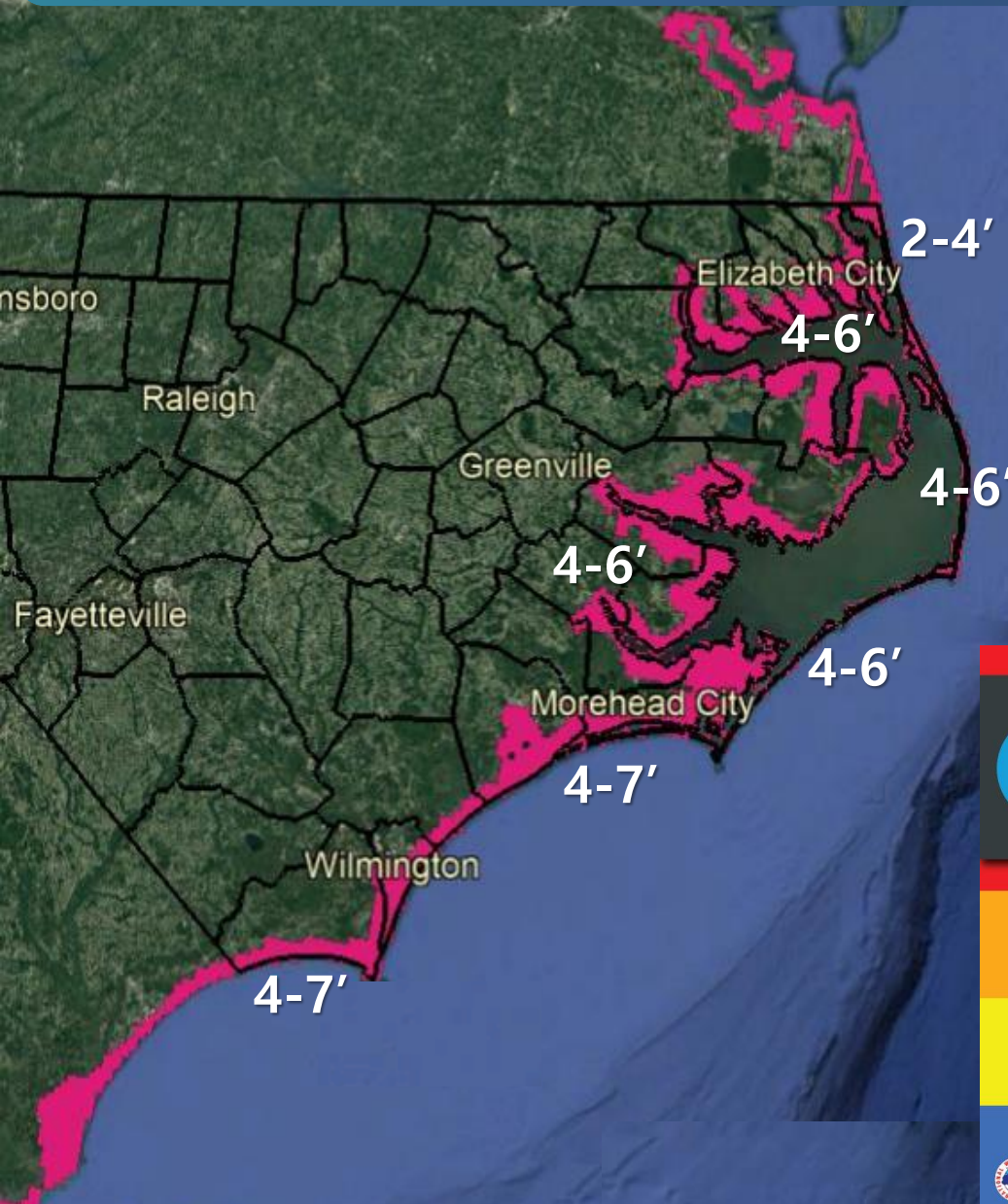
Hurricane Dorian [5PM WED]
Location: Approx. 275 miles SSW of Wilmington, NC
Max Sustained Winds: 110 MPH
Movement: NNW at 8 MPH
Min Central Pressure: 28.38" (961 mb)

Storm Track Wind/Symbol Key									
■	Tropical Storm ≥ 34 kt/39mph	■	Strong TS ≥ 50 kt/58mph	■	Hurricane ≥ 64 kt/74mph				
○	Depression	●	Tropical Storm	●	Hurricane	⊗	Post-Tropical	⊗	Potential-Tropical or Remnants

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

STORM SURGE WARNING

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Storm Surge Warning:
Means there is a danger of life-threatening inundation from rising water moving from the coastline, during the next 36 hours in the indicated locations.

 **Understanding Storm Surge Flooding**
Storm surge is destructive, life-threatening coastal flooding. It accounts for about half of the deaths associated with tropical cyclones in the U.S. To help you determine the best way to prepare, NOAA coastal flooding forecasts are expressed as feet of water above ground level.



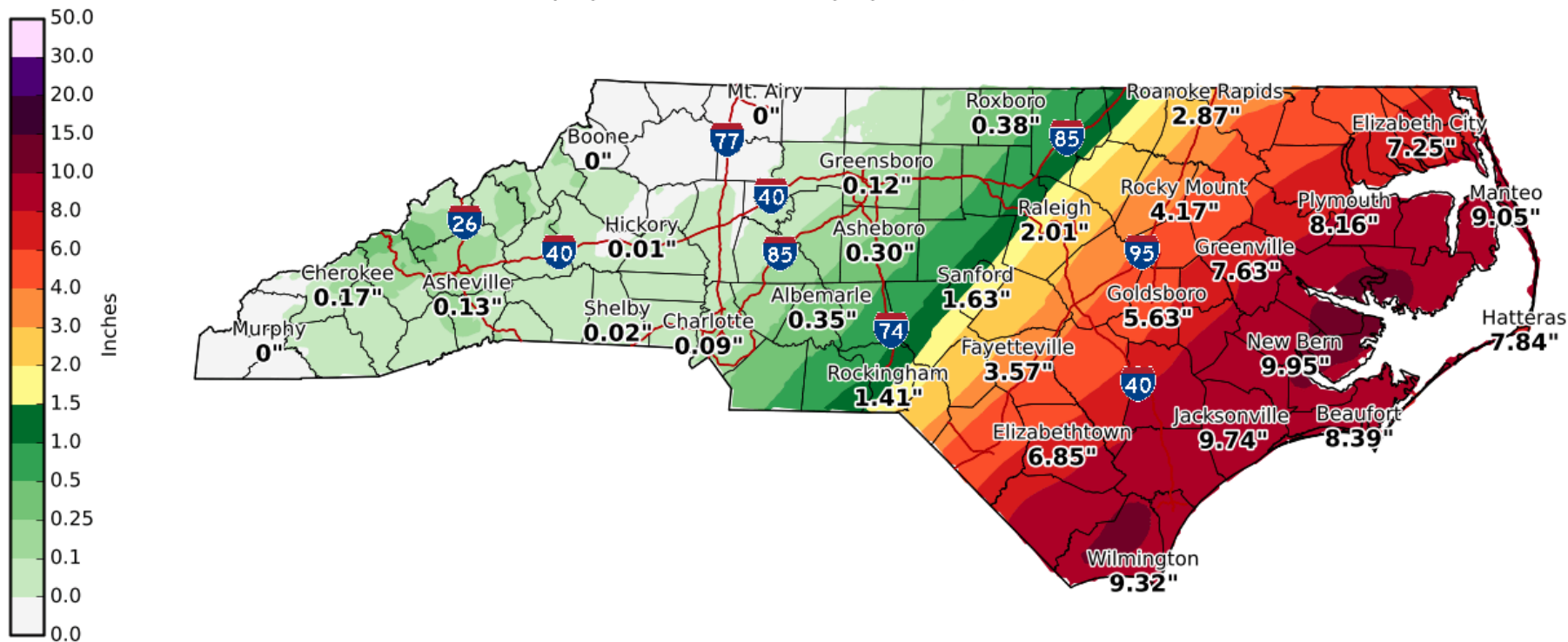
3-DAY RAINFALL FORECAST

September 4, 2019 – 5PM



72 hr Rainfall Totals

Valid: 09/04/2019 05:00 PM - 09/07/2019 05:00 PM EDT



National Weather Service
North Carolina NWS Offices
09/04/2019 05:11 PM EDT

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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.
A Flash Flood Watch has been issued for areas along and east of US-1.

FLASH FLOODING POTENTIAL

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NOAA/NWS/NCEP/WPC



High Risk Days are Rare, Dangerous, Significant, and Impactful



Tonight



Thursday

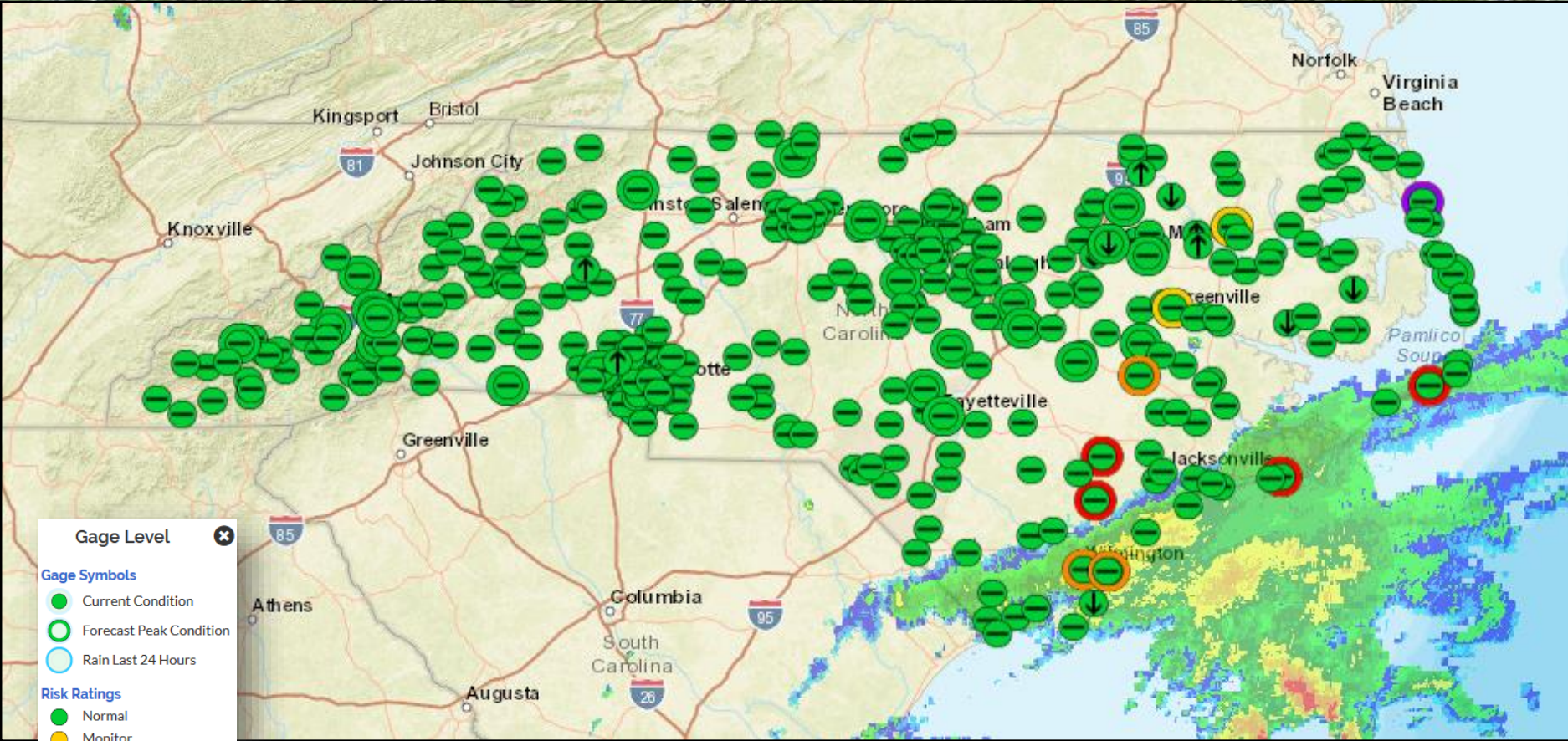


Friday

MARGINAL (MRGL)	SLIGHT (SLGT)
Isolated flash floods possible	Scattered flash floods possible
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.
MODERATE (MDT)	HIGH (HIGH)
Numerous flash floods likely	Widespread flash floods expected
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.
Flash flooding near me?	Flash Flooding
Flash flooding near me?	NO Flash Flooding

RIVER FLOOD OUTLOOK

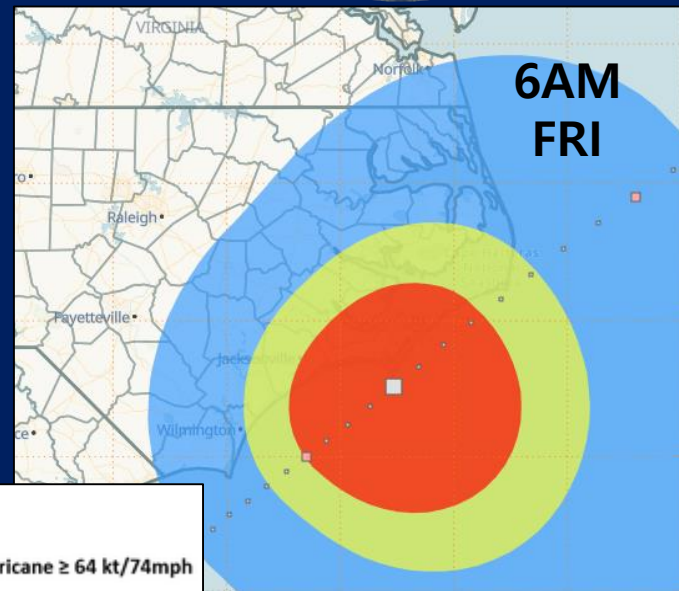
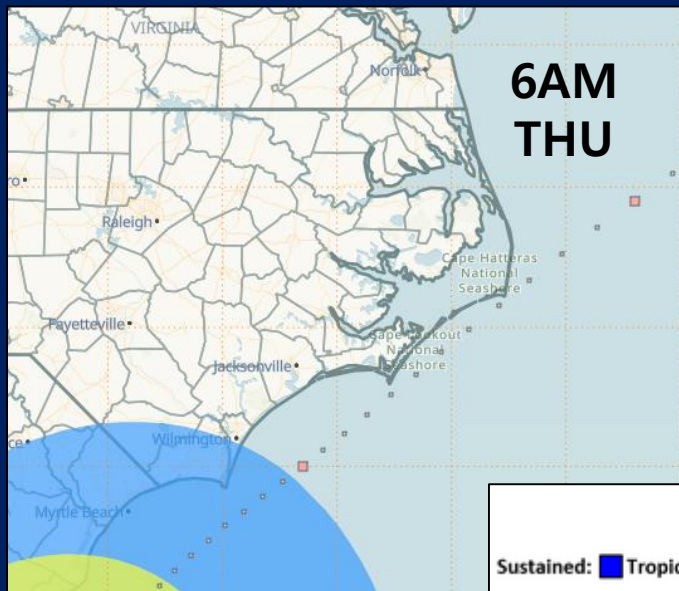
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- Gage Level**
- Gage Symbols**
- Current Condition
 - Forecast Peak Condition
 - Rain Last 24 Hours
- Risk Ratings**
- Normal
 - Monitor
 - Minor Flooding
 - Moderate Flooding
 - Major Flooding
 - Not Risk Rated
 - Out of Service
- Trend**
- Rising
 - Falling
 - Constant

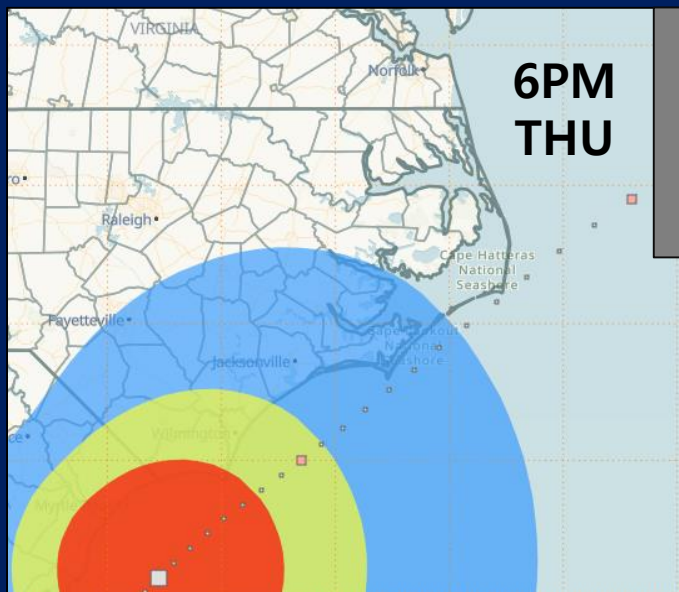
FORECAST WIND FIELD

September 4, 2019 – 5PM Forecast

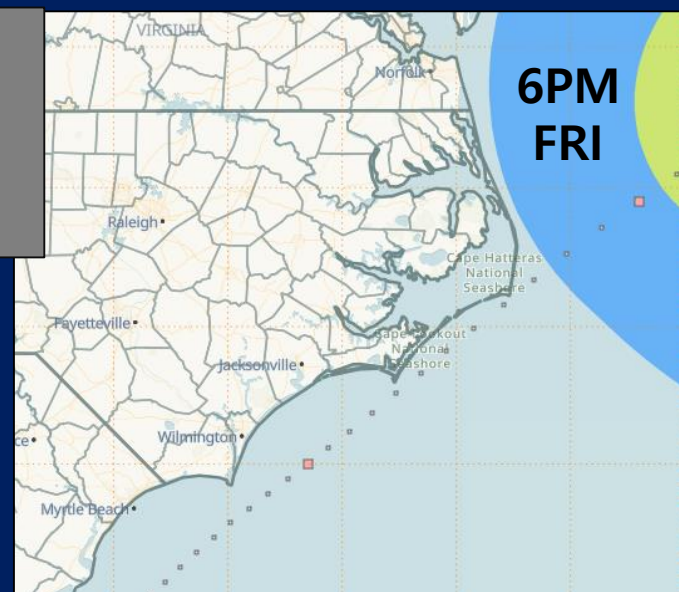


Storm Track Wind/Symbol Key

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



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

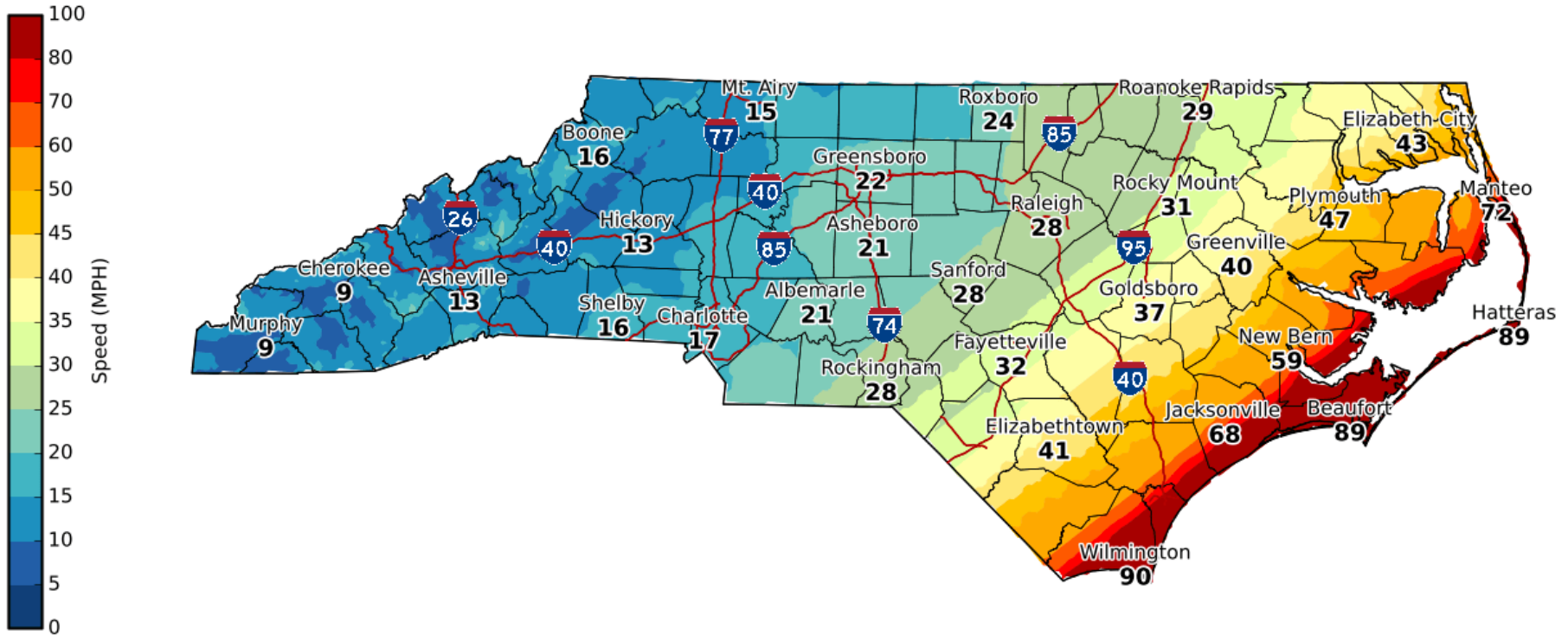


MAX SUSTAINED WINDS THURSDAY-FRIDAY

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72 hr Max Sustained Winds Valid: 09/04/2019 05:00 PM - 09/07/2019 05:00 PM EDT



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Sustained tropical storm force winds are likely east of I-95 with hurricane force winds expected along the immediate coast.

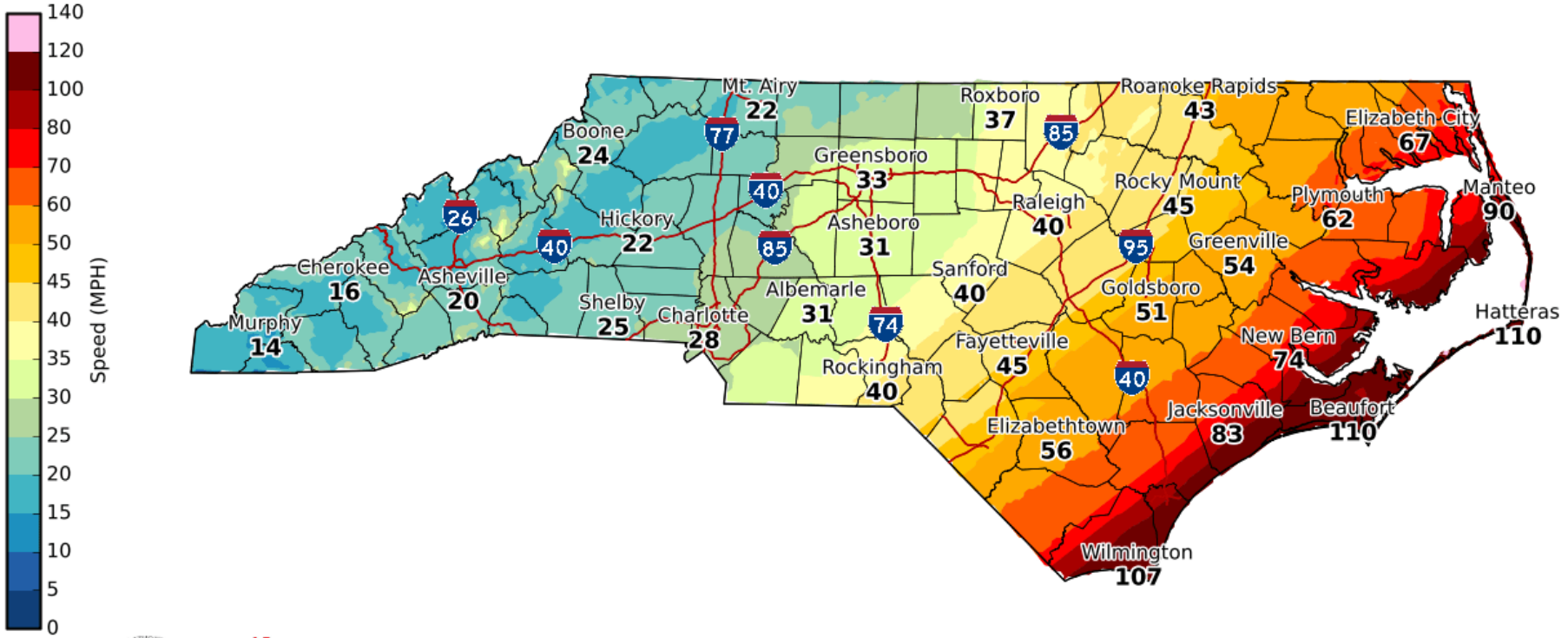
MAX WIND GUSTS THURSDAY-FRIDAY

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72 hr Max Wind Gust

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CURRENT WARNINGS

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Legend Map Overlays

