

# TIMELINE & KEY TAKEAWAYS

September 4, 2019 – 8AM



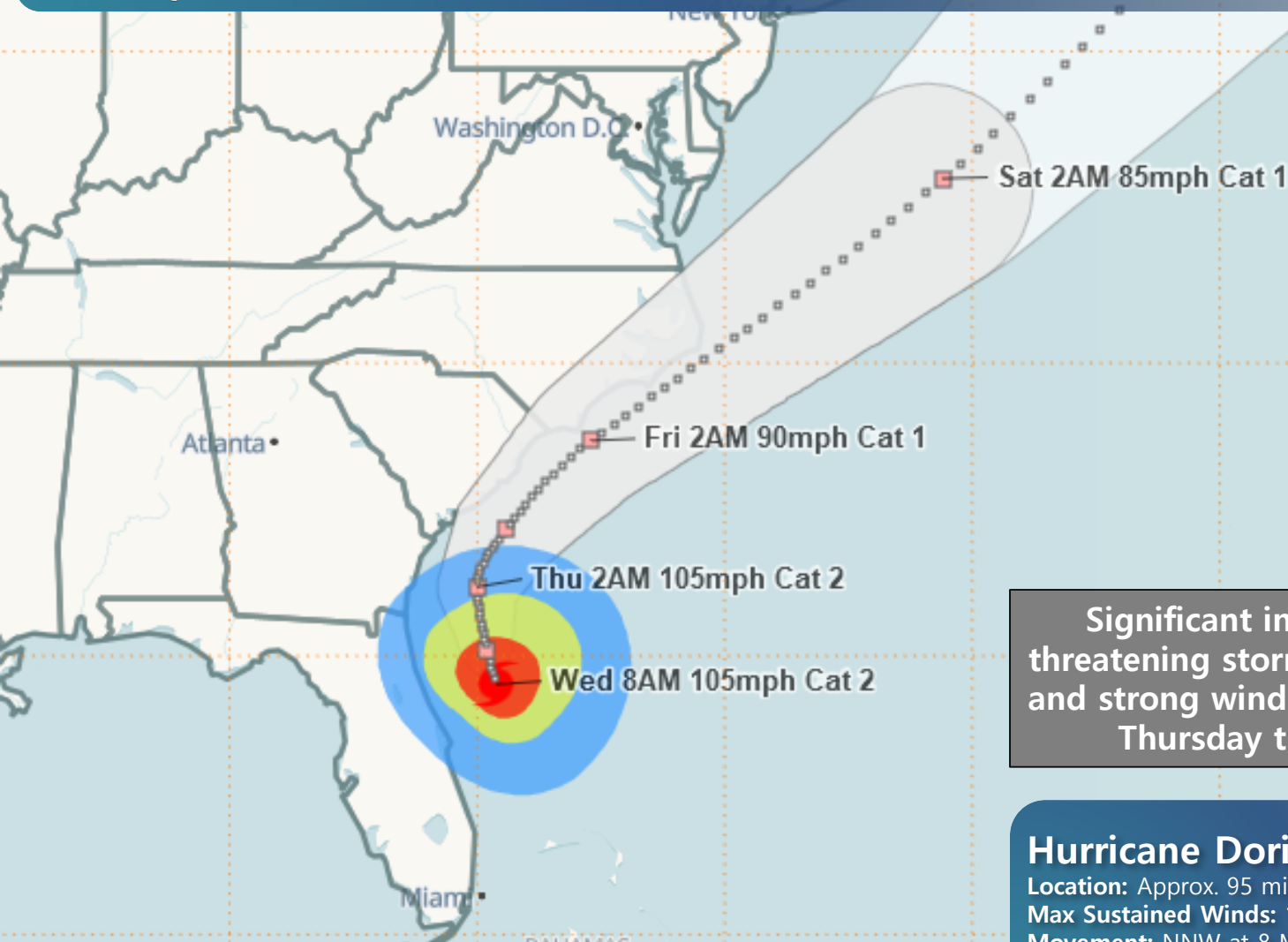
WED	WED NIGHT	THU	FRI	SAT
Chance of showers late morning for coastal regions. Breezy conditions with gusts up to 20-30 mph along the SE coast Wednesday afternoon.	Rain will begin to increase from the SE through the night. Tropical storm force winds could begin in SE counties during the overnight hours.	The greatest impacts from Hurricane Dorian are expected Thursday morning 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) There has been a slight increase in expected storm surge and rainfall totals:
  - **Life-threatening storm surge:**  
4-7' south of Cape Lookout, 4-6' Cape Lookout to Duck (including Pamlico and Albemarle Sounds, and Neuse and Pamlico Rivers); 2-4' north of Duck
  - **Heavy rainfall amounts of 5-10", with locally higher amounts up to 15"**
  - **Tropical storm force winds are likely across eastern NC**
- 3) Hurricane, Tropical Storm, and Storm Surge Watches/Warnings remain in effect

# HURRICANE DORIAN

September 4, 2019 – 8AM



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

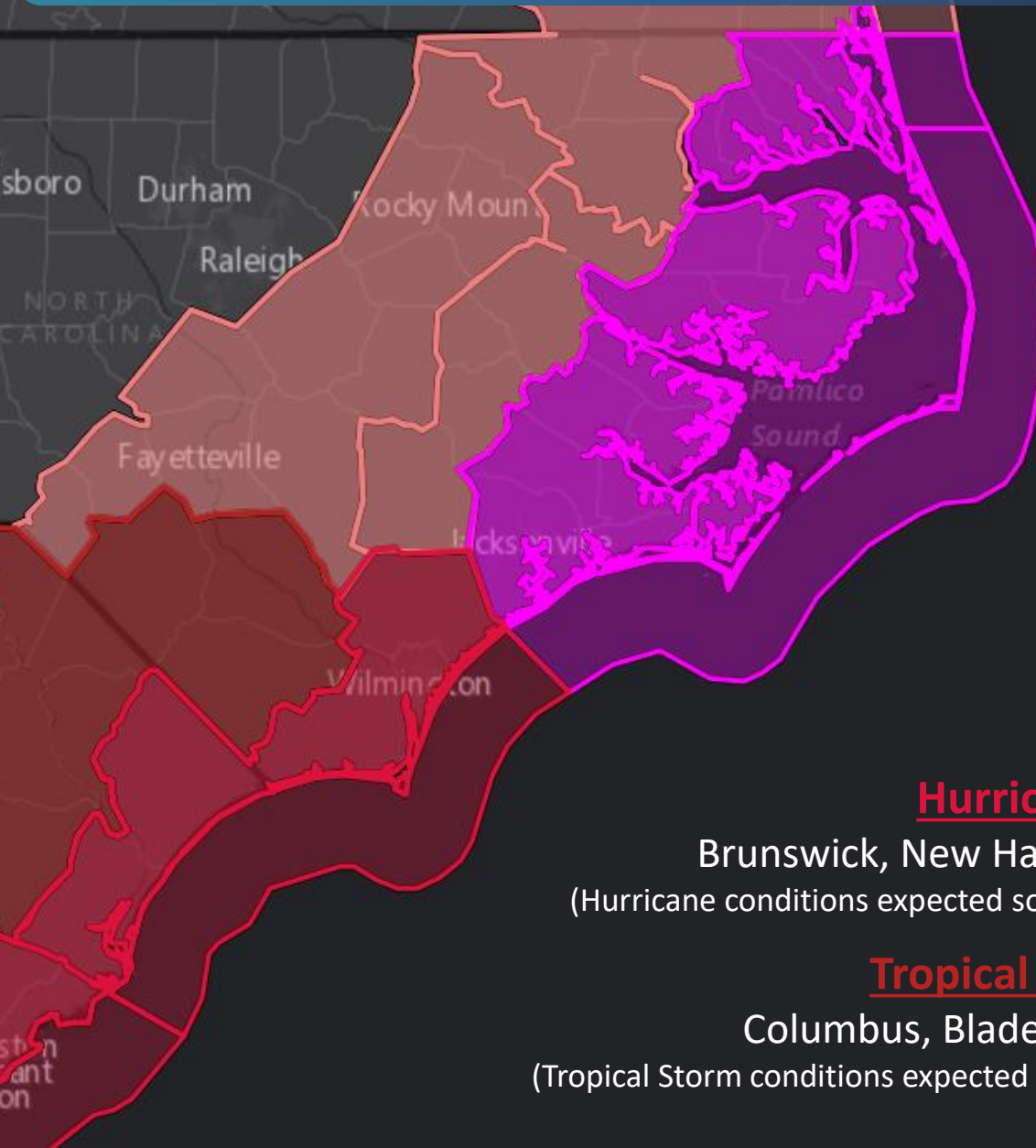
**Hurricane Dorian [8AM WED]**  
**Location:** Approx. 95 miles ENE of Daytona Beach, FL  
**Max Sustained Winds:** 105 MPH  
**Movement:** NNW at 8 MPH  
**Min Central Pressure:** 28.47" (964 mb)

Storm Track Wind/Symbol Key										
Sustained: [Blue Box]	Tropical Storm ≥ 34 kt/39mph	[Yellow Box]	Strong TS ≥ 50 kt/58mph	[Red Box]	Hurricane ≥ 64 kt/74mph					
Track Symbols:	[Red Circle]	Depression	[Red Square]	Tropical Storm	[Red Circle with Dot]	Hurricane	[Red Circle with X]	Post-Tropical	[Red X]	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.

# CURRENT WATCHES/WARNINGS

September 4, 2019 – 8AM



## Hurricane Watch:

Hurricane conditions are possible within the watch area. Issued 48 hours prior to the onset of tropical storm force winds.

## Tropical Storm Watch:

Tropical storm conditions are possible within the watch area, generally within 48 hours.

## Hurricane Warning:

Brunswick, New Hanover, and Pender Counties  
(Hurricane conditions expected somewhere in this area within the next 36 hrs)

## Tropical Storm Warning:

Columbus, Bladen, and Robeson Counties  
(Tropical Storm conditions expected somewhere in this areas within the next 36 hrs)

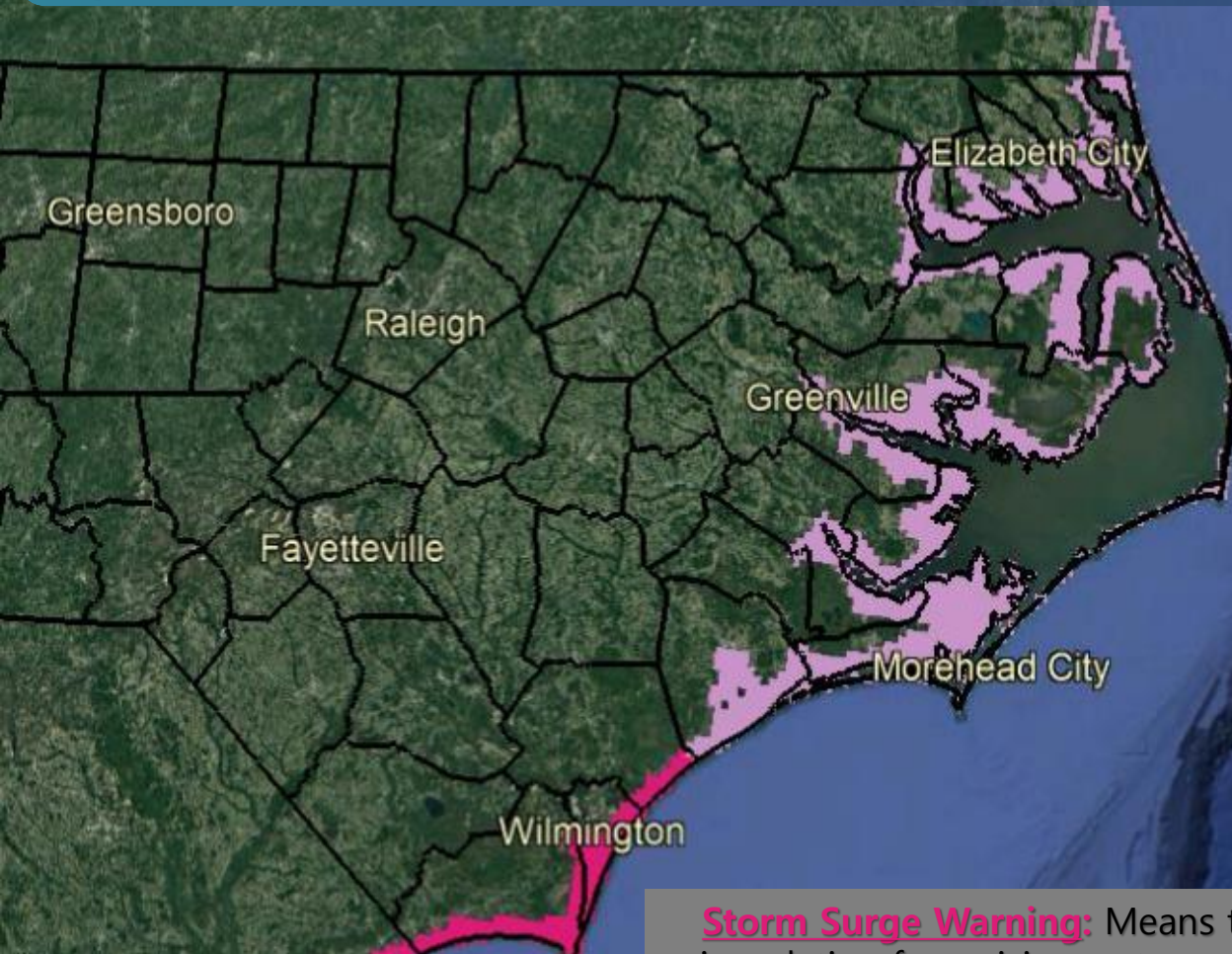


# STORM SURGE WATCH

September 4, 2019 – 5AM

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If peak surge occurs at the time of high tide, water could reach the following heights above ground:

4-7': South of Cape Lookout

4-6': Cape Lookout to Duck (including Pamlico and Albemarle Sounds and the Neuse and Pamlico Rivers)

2-4': North of Duck

**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.

**Storm Surge Watch:** means there is a possibility of life-threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours.

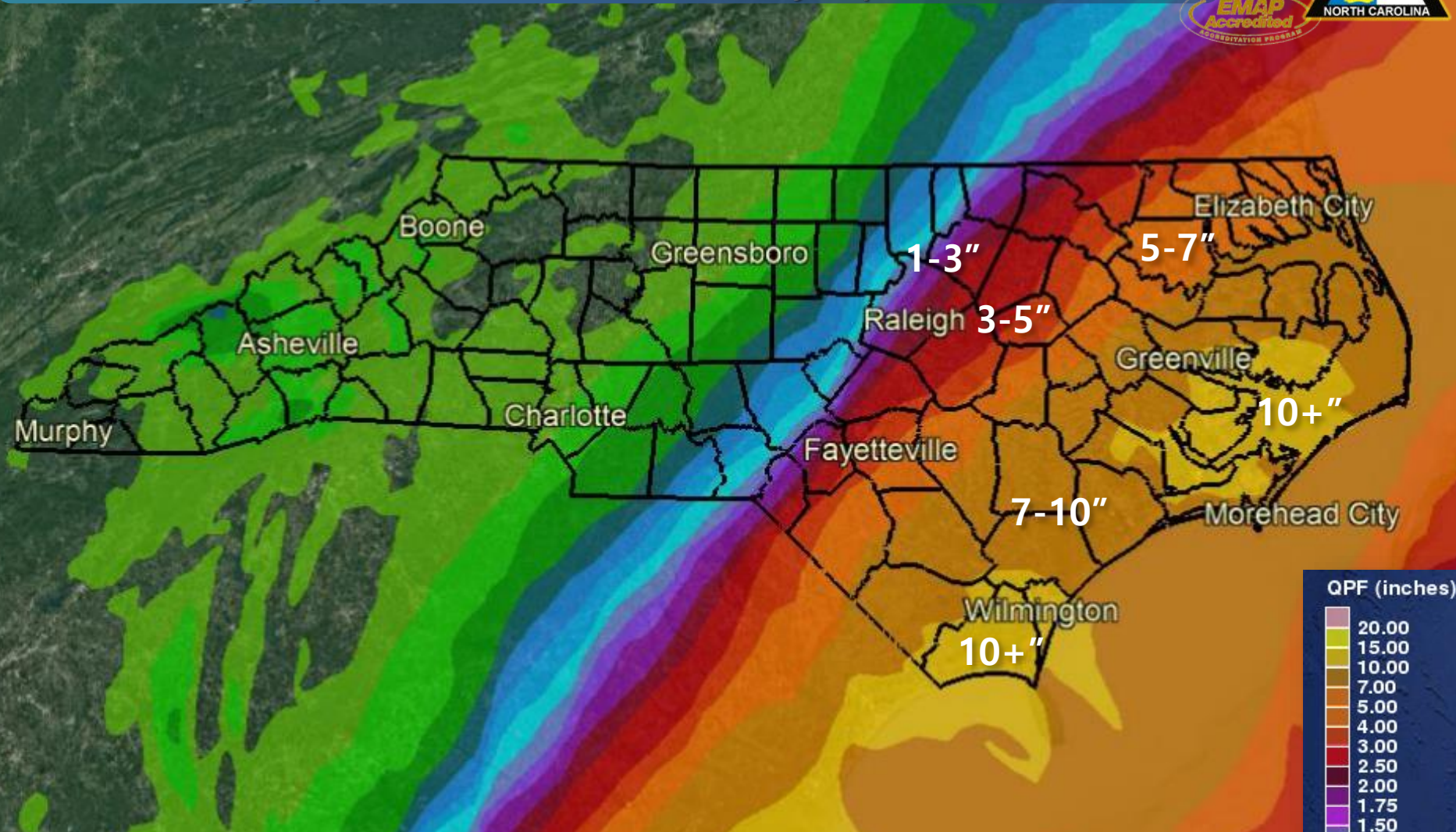
Google Earth

Image Landsat / Copernicus  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO



# 3-DAY RAINFALL FORECAST

8AM Wednesday, September 4, 2019 – 8AM Saturday, September 7, 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. A Flash Flood Watch has been issued for areas east of US-1**

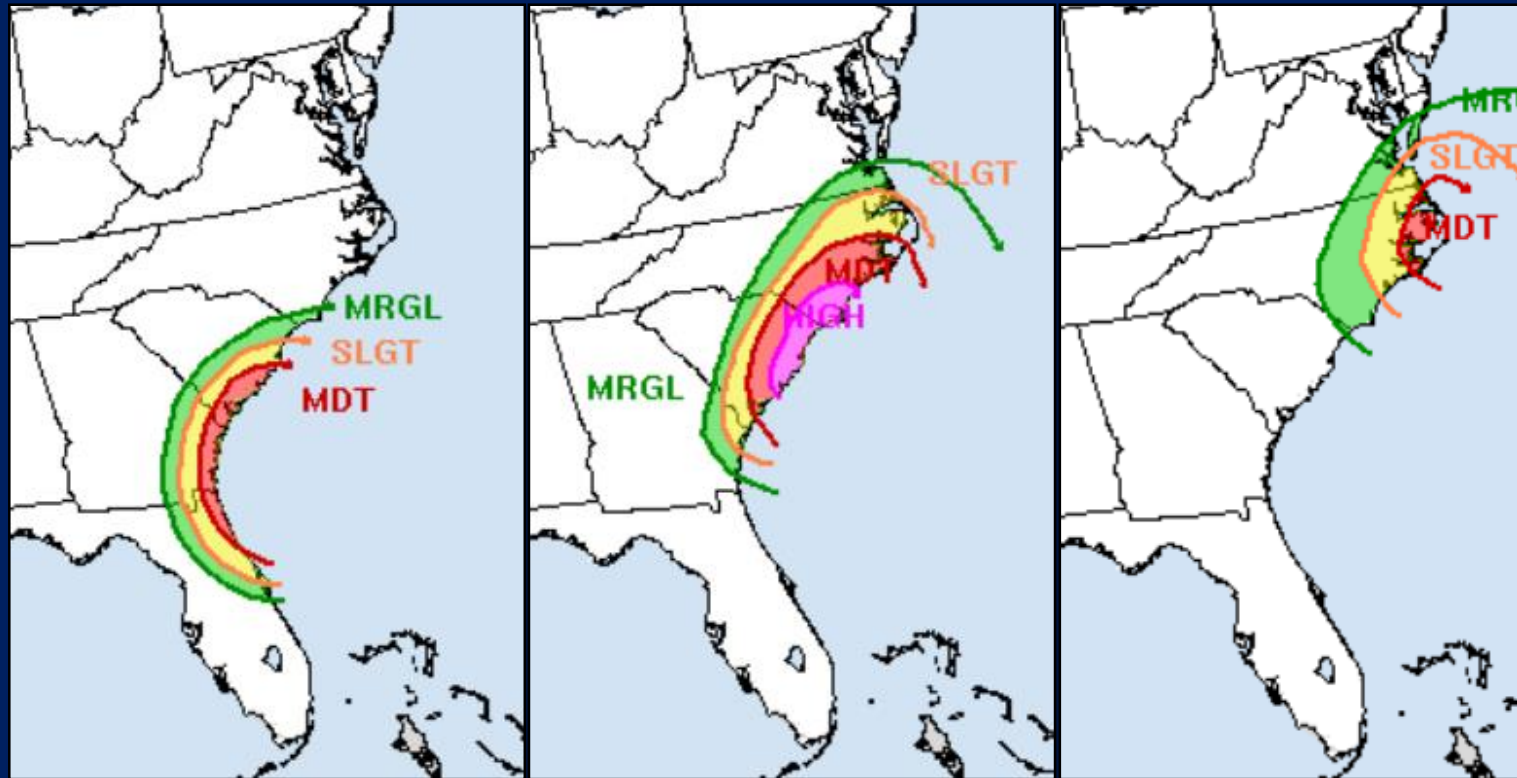
# FLASH FLOODING POTENTIAL

September 4, 2019 – 5AM

NOAA/NWS/NCEP/WPC



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



Wednesday

Thursday

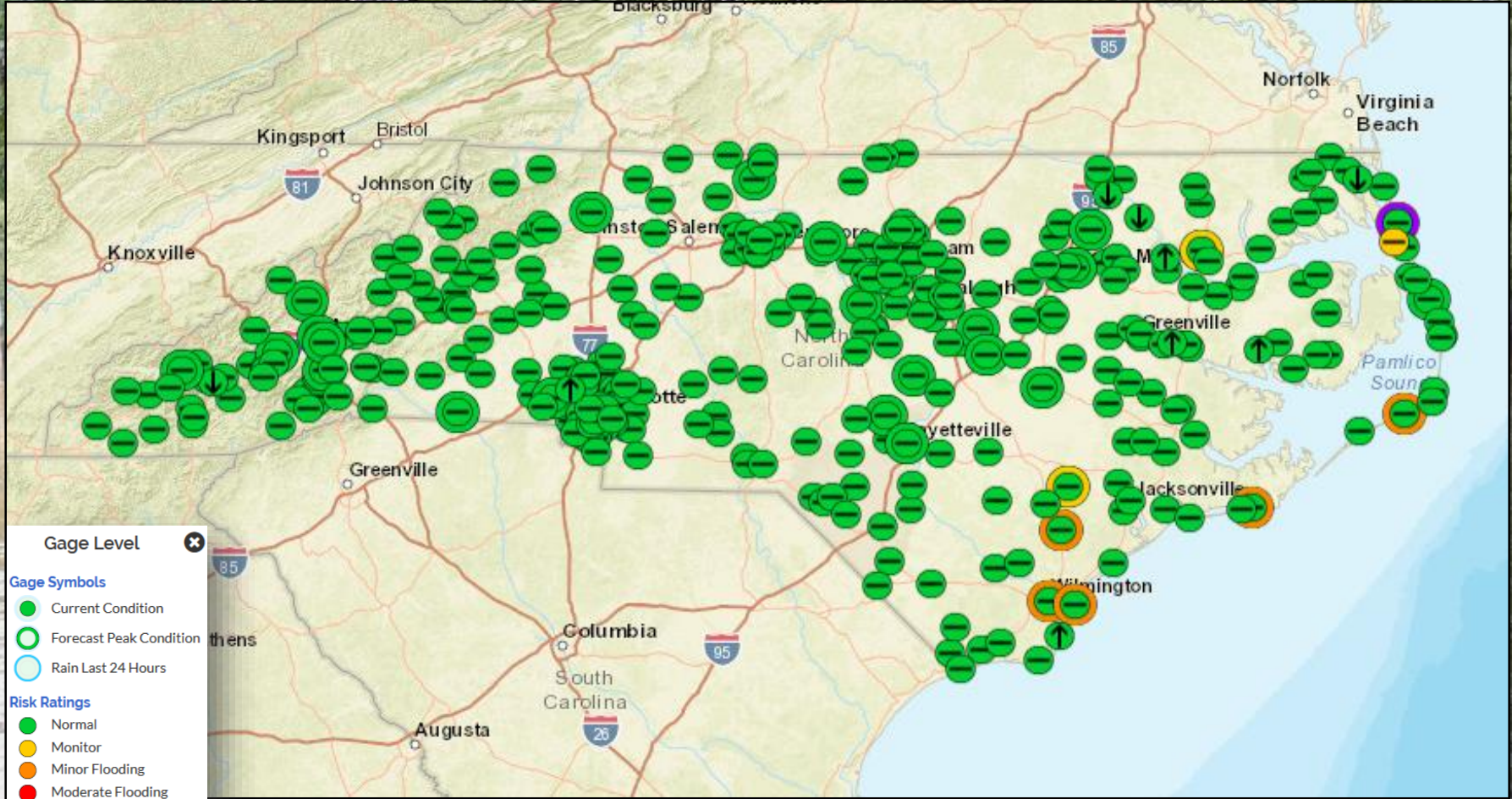
Friday

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 NO Flash Flooding



# RIVER FLOOD OUTLOOK

September 4, 2019 – 9AM



**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

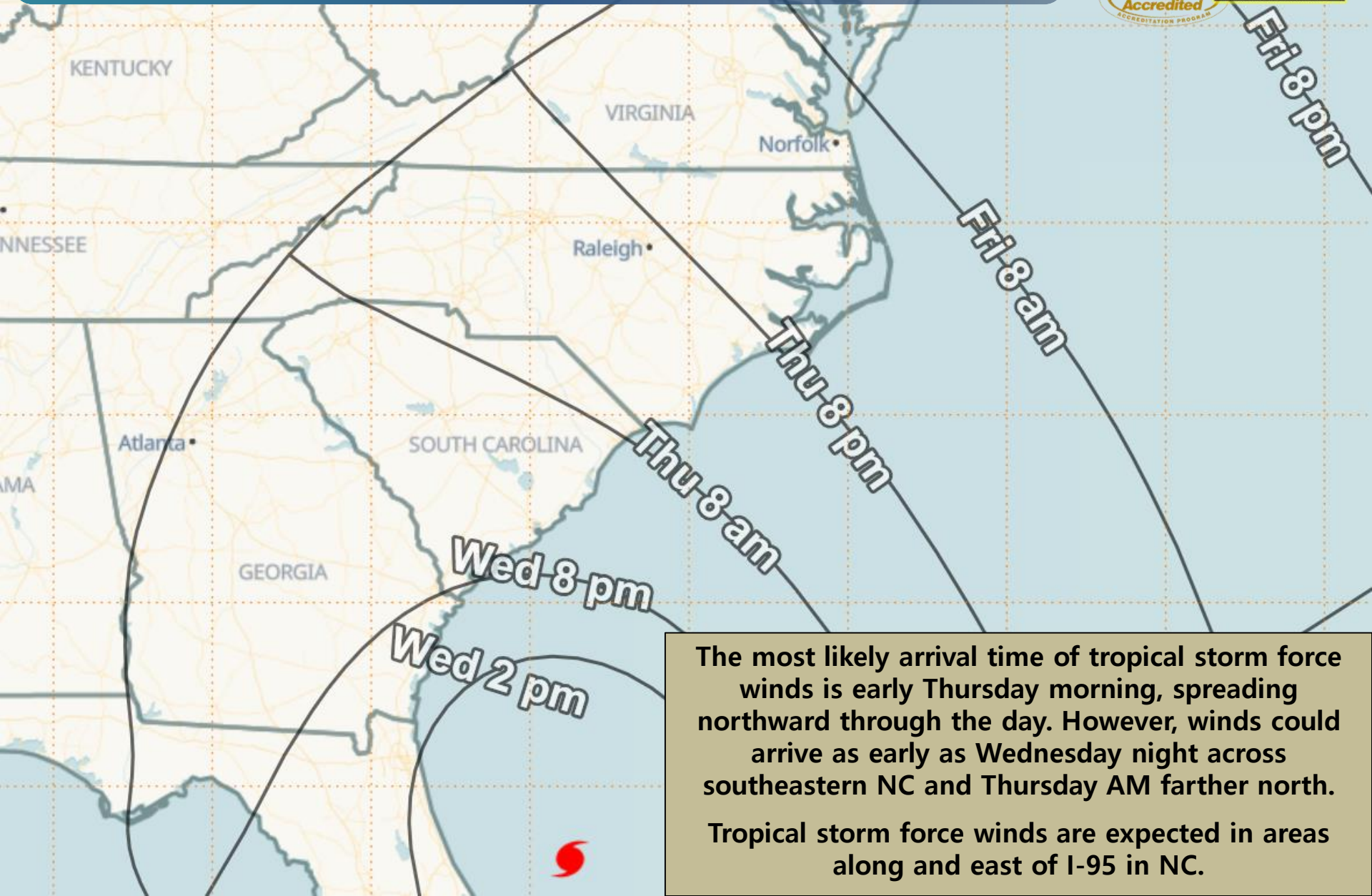


# MOST LIKELY ARRIVAL OF TSF WINDS

September 4, 2019 – 5AM

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The most likely arrival time of tropical storm force winds is early Thursday morning, spreading northward through the day. However, winds could arrive as early as Wednesday night across southeastern NC and Thursday AM farther north. Tropical storm force winds are expected in areas along and east of I-95 in NC.

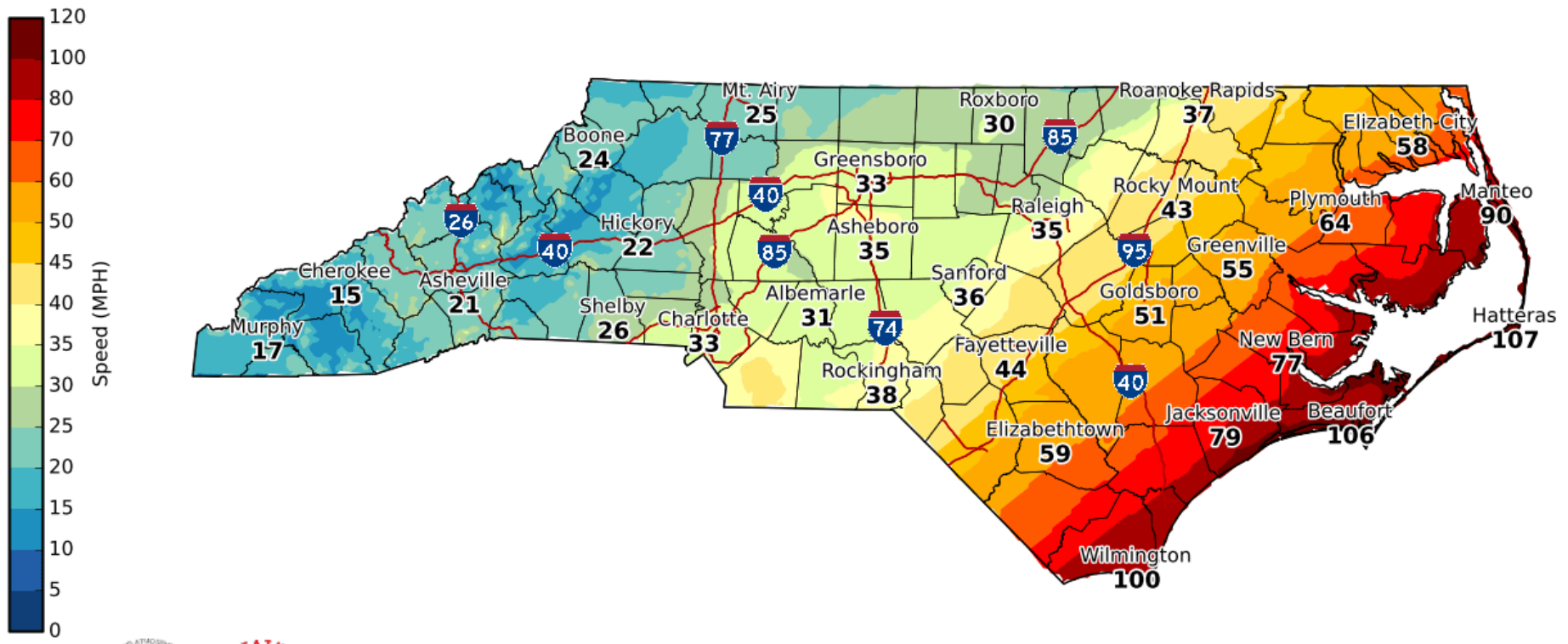


# MAX WIND GUSTS THURSDAY-FRIDAY

September 4, 2019 – 8AM



## 72 hr Max Wind Gust Valid: 09/04/2019 08:00 AM - 09/07/2019 08:00 AM EDT



**National Weather Service**  
North Carolina NWS Offices  
09/04/2019 08:39 AM EDT

Follow Us:     
[weather.gov/rah/nc](http://weather.gov/rah/nc)

The greatest wind gusts are expected mainly east of the US-1 corridor, with hurricane force gusts near the coast.

# HAZARDS SUMMARY: DORIAN

September 4, 2019 – 8AM



HAZARD	DETAILS	IMPACTS	TIMING
<b>Storm Surge</b>	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*
<b>Inland Flooding</b>	6-10" in Eastern NC (isolated 15") 4-8" 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
<b>Damaging Winds</b>	Coast: 55-80, gusts 65-95 mph Near Cape Fear: 90, gusts 115 mph Inland: 30-55, gusts 40-65 mph Central NC: Gusts 40-60 mph (mainly east of US-1)	Downed trees, widespread power outages, structure damage. Tropical storm force winds will most likely begin late Wed night across SE NC.	TS Force Winds: Early Thursday AM – Friday
<b>Tornadoes</b>	Isolated tornadoes are possible across eastern NC Wed night – Thu night, with the greatest threat near the coast.		Wed Night – Thu Night
<b>Marine &amp; Coastal</b>	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