

TIMELINE & KEY TAKEAWAYS

September 28, 2022 – 8AM



Wednesday	Thursday	Friday – Saturday	Sunday - Monday
Partly sunny and dry conditions are expected today	Most areas will remain dry through the day Thursday. Rain chances will begin to increase across SE NC overnight. Areas of coastal flooding could develop Thursday due to northeasterly and easterly winds.	The heaviest rain will spread across the state from east to west during the day Friday, and likely continue into Saturday night. The best chance of gusty winds, potential coastal flooding, and isolated tornadoes will also be during this timeframe.	Showers will likely continue on Sunday and possibly Monday, but rainfall rates and coverage will be less than previous days. The greatest flooding threat on Sunday will be along the NC/VA border.

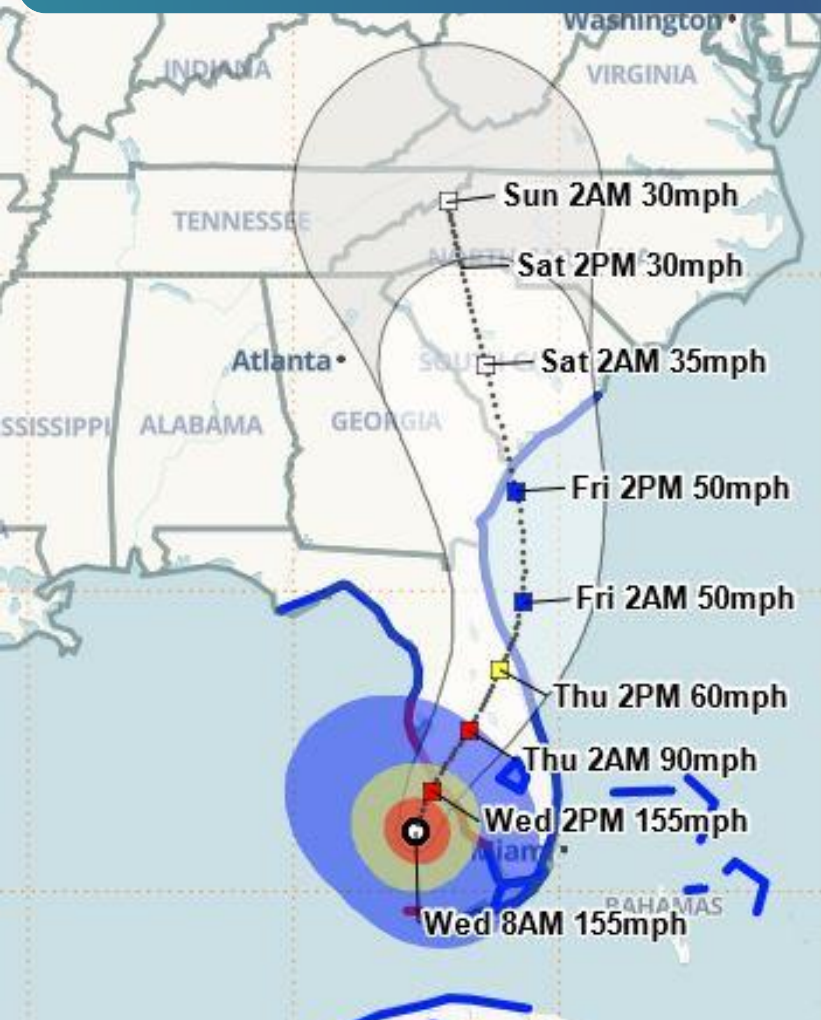
Hurricane Ian

- Overall, there has been little change to the forecasted impacts to NC.
- The greatest and most widespread hazard from this system is still expected to be heavy rain across NC. Additional hazards include the potential for gusty winds, coastal flooding, and isolated tornadoes.
- Gusty winds and areas of coastal flooding could begin later in the day Thursday, but the heaviest rains are expected Friday and Saturday.

HURRICANE IAN

National Hurricane Center

(September 28, 2022 – 8AM)



NC will see heavy rain and the potential for gusty winds, coastal flooding, and isolated tornadoes Friday and into the weekend.

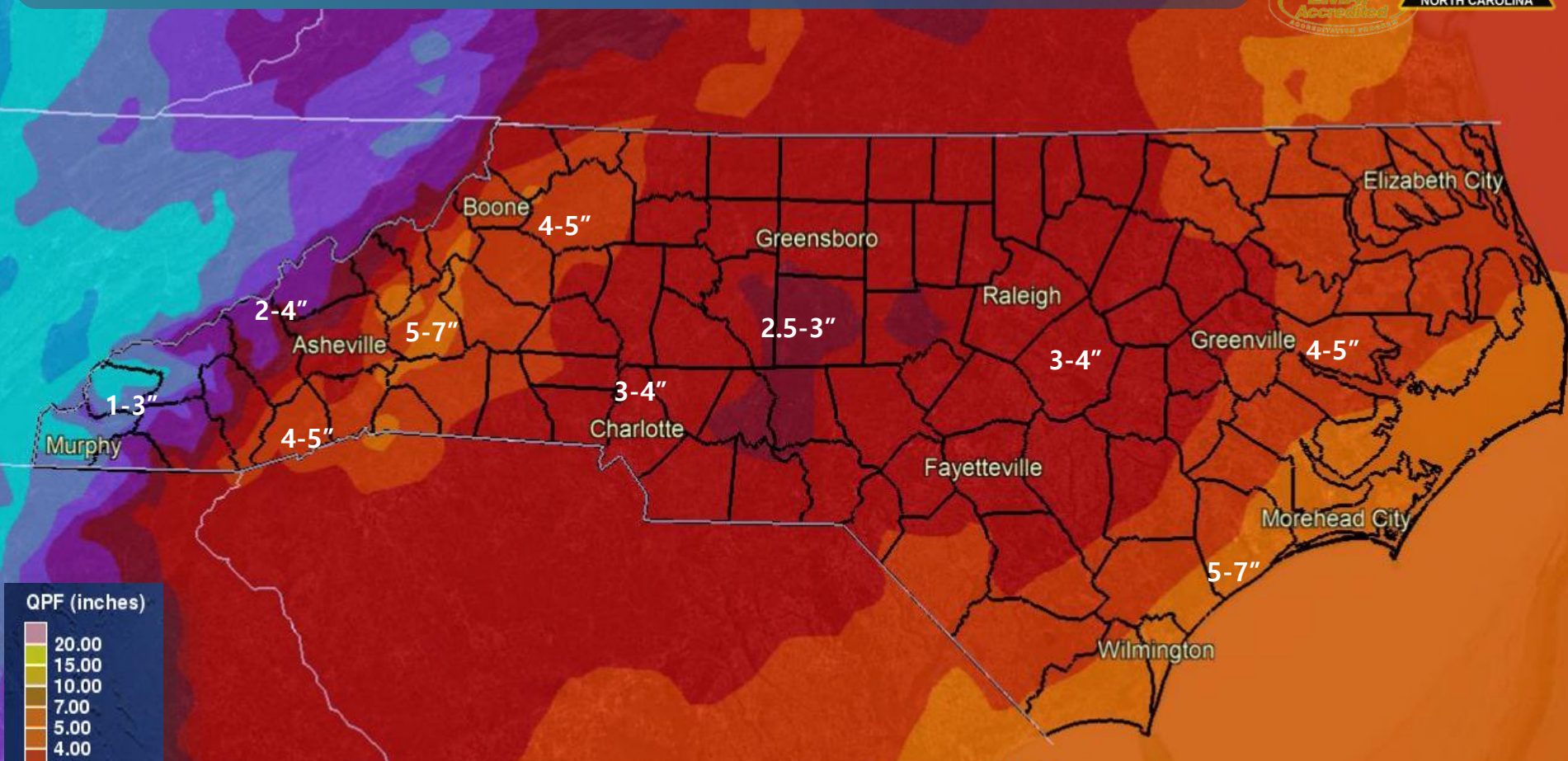
Ian is forecast to become post-tropical later in the day Saturday and dissipate by the end of the weekend.

Hurricane IAN - Wednesday, September 28, 2022 8AM EDT Advisory #23A
Center Location: 26.0 N 82.7 W Maximum Sustained Winds: 155 mph (Cat 4) Movement: 10 mph NNE
Wind Field: ● at current location Potential Track Area: 1-3 day 4-5 day
Sustained Wind Speed: ■ tropical storm >= 34kt/39mph ■ strong tropical storm >= 50kt/58mph ■ hurricane >= 64kt/74mph
Wind Watches: ■ hurricane ■ tropical storm Wind Warnings: ■ hurricane ■ tropical storm

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

5-DAY RAINFALL FORECAST

Valid 8AM Wednesday, September 28, 2022 – 8AM Monday, October 3, 2022

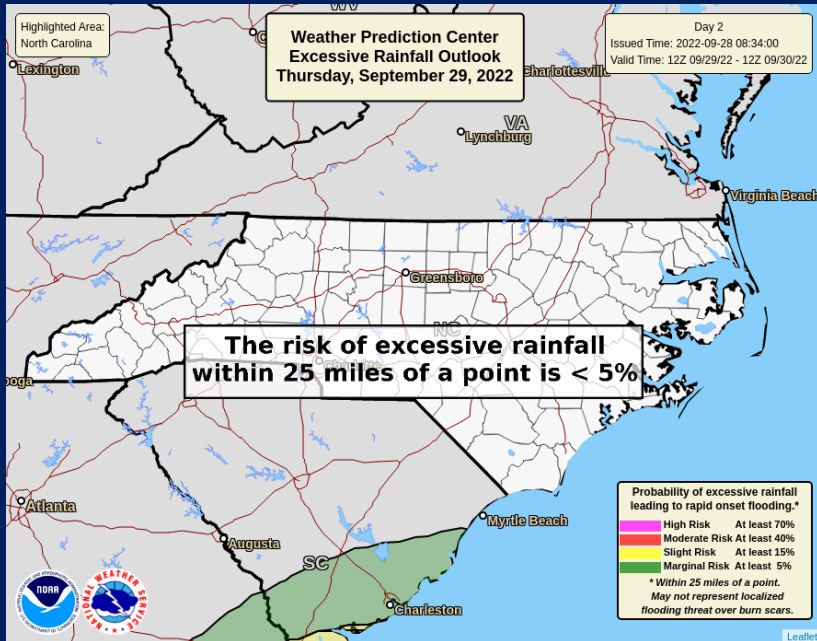


Rain chances will increase across southeastern NC late Thursday, with heavy rain expanding across the state Friday, and continuing through Saturday night. Heavy rain on Sunday will likely be limited to areas along the NC/VA border, especially across northwestern NC.

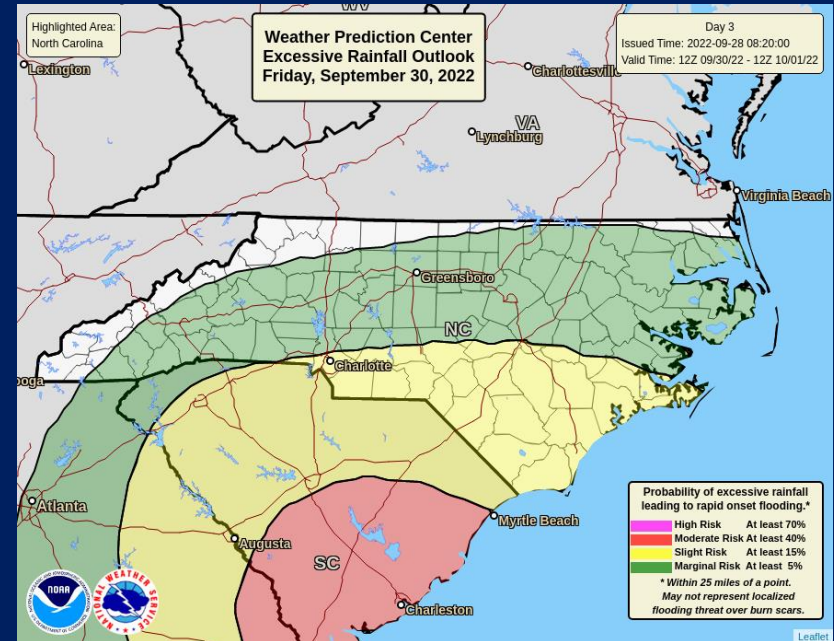
These rainfall amounts and localized higher totals could lead to areas of flash flooding, possible landslides along the Blue Ridge Escarpment, and rises on main-stem rivers, but moderate or major river flooding is not anticipated.

FLASH FLOODING POTENTIAL

WEATHER PREDICTION CENTER (VALID 8AM 9/29/22 - 8AM 10/1/22)



8AM Thursday – 8AM Friday



8AM Friday – 8AM Saturday

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	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.	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	Flash Flooding	Flash Flooding
	NO Flash Flooding	NO Flash Flooding	NO Flash Flooding	NO Flash Flooding

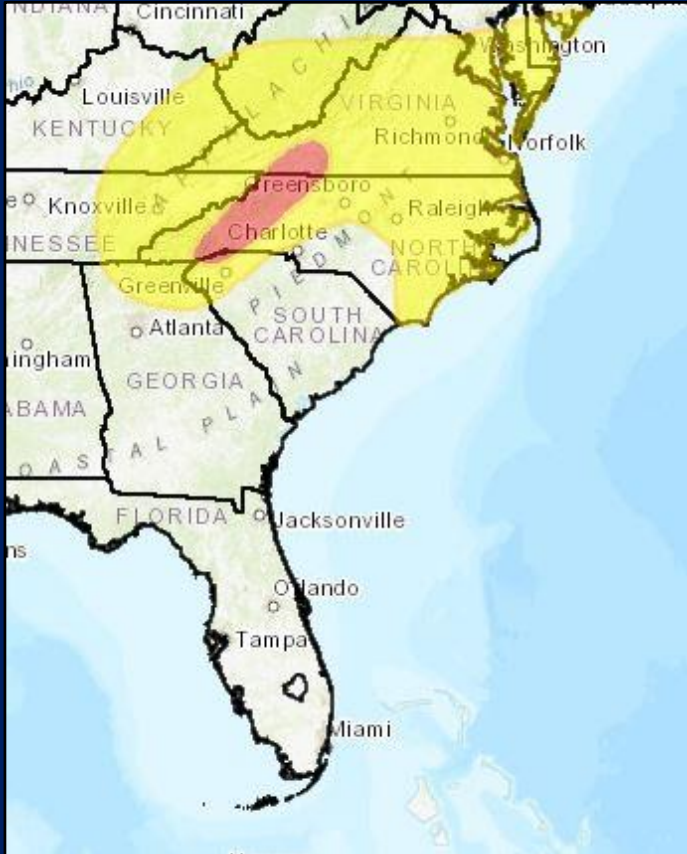
Localized areas of flash flooding will be possible beginning on Friday. This threat will expand in coverage on Saturday, with more numerous areas of flash flooding possible, especially along and near the Blue Ridge Escarpment.

FLASH FLOODING POTENTIAL

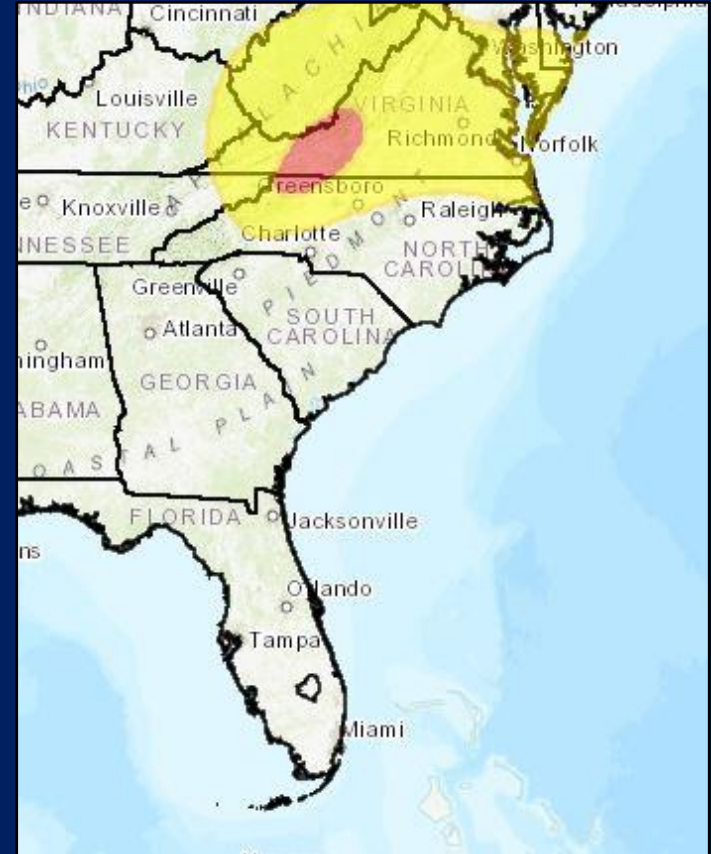
WEATHER PREDICTION CENTER (VALID 8AM 10/1/22 - 8AM 10/3/22)



WPC's Experimental Day 4-5 Outlook



8AM Saturday – 8AM Sunday



8AM Sunday – 8AM Monday

Risk of rainfall exceeding flash flood guidance within 25 miles of a point

- MDT: At Least 40%
- SLGT: At Least 15%

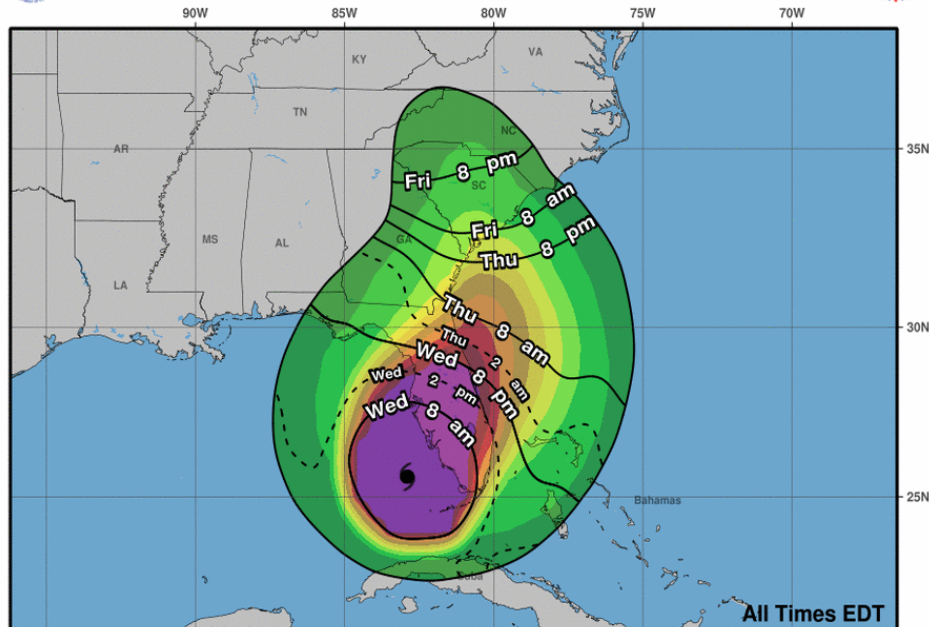
HURRICANE IAN

National Hurricane Center

(September 28, 2022 – 5AM)



Most Likely Arrival Time of Tropical-Storm-Force Winds

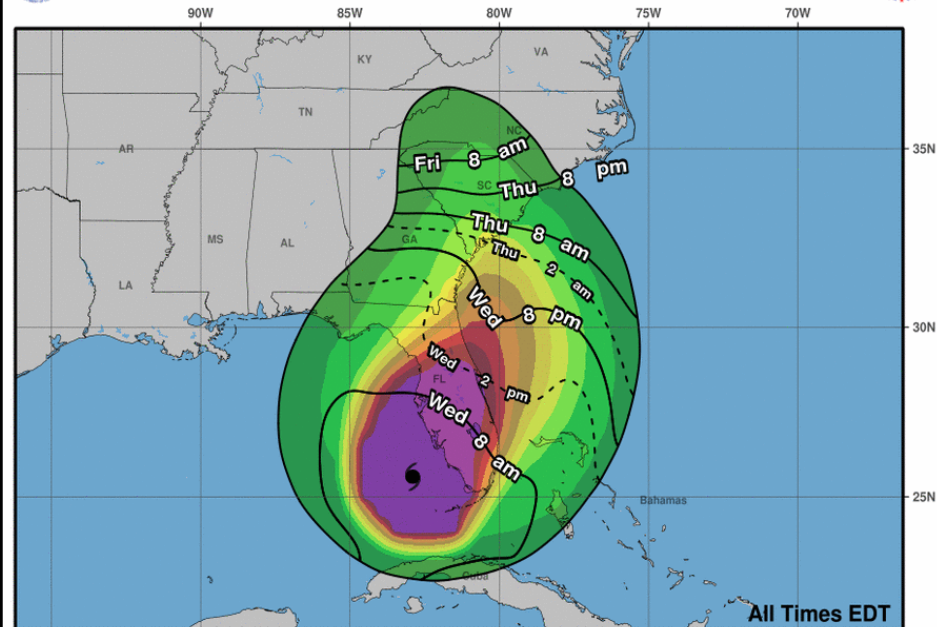


Hurricane Ian
Wed. Sep. 28, 2022 5 am EDT
Advisory 22

Storm Location & Wind Speed
○ < 34 kt (39 mph)
○ 34-63 kt (39-73 mph)
● ≥ 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds
5 10 20 30 40 50 60 70 80 90 100 %

Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Hurricane Ian
Wed. Sep. 28, 2022 5 am EDT
Advisory 22

Storm Location & Wind Speed
○ < 34 kt (39 mph)
○ 34-63 kt (39-73 mph)
● ≥ 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds
5 10 20 30 40 50 60 70 80 90 100 %

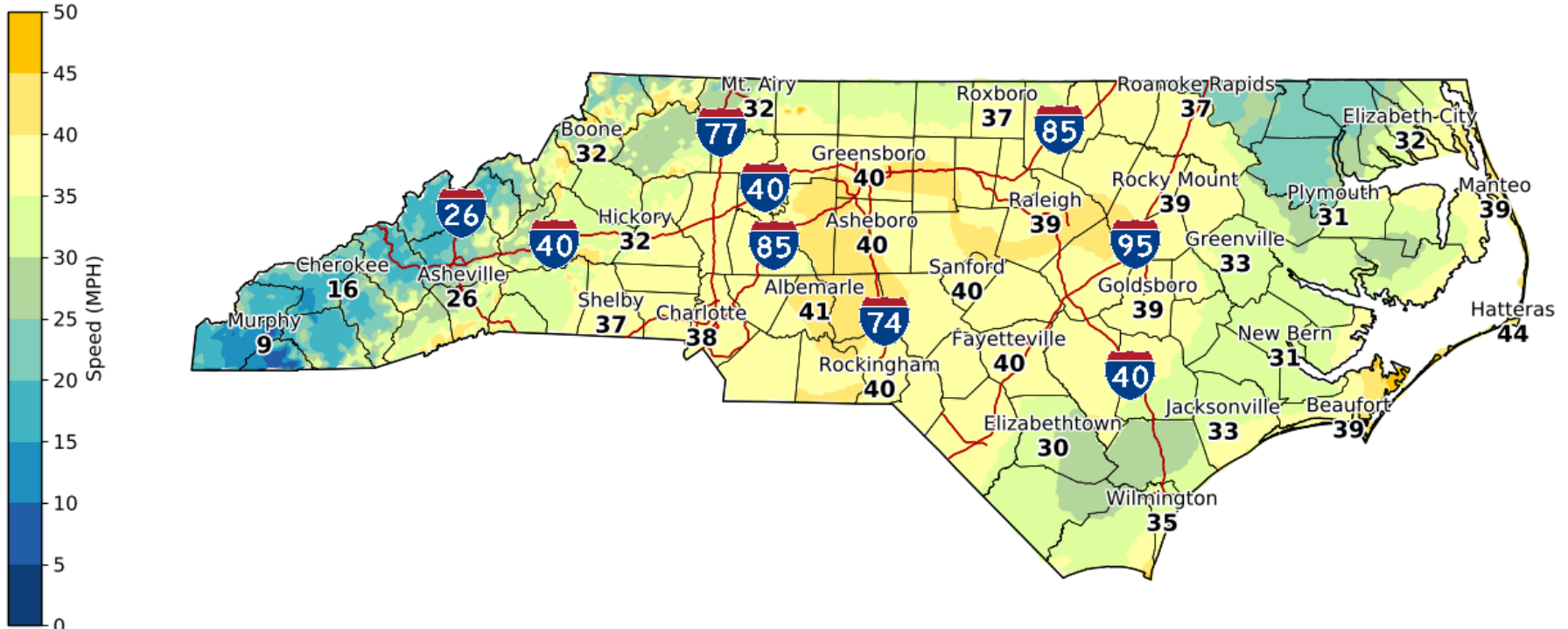
Sustained tropical-storm-force winds are likely to remain south of NC & offshore, but gusts of 25-35 mph are expected across much of the state, with stronger gusts of up to 45 mph possible along the immediate coast and higher elevations of western NC Friday and Saturday.

3-DAY MAX WIND GUST FORECAST

6AM Wednesday, September 28, 2022 – 6AM Saturday, October 1, 2022



72 hr Max Wind Gust Valid: 09/28/2022 06:00 AM - 10/01/2022 06:00 AM EDT



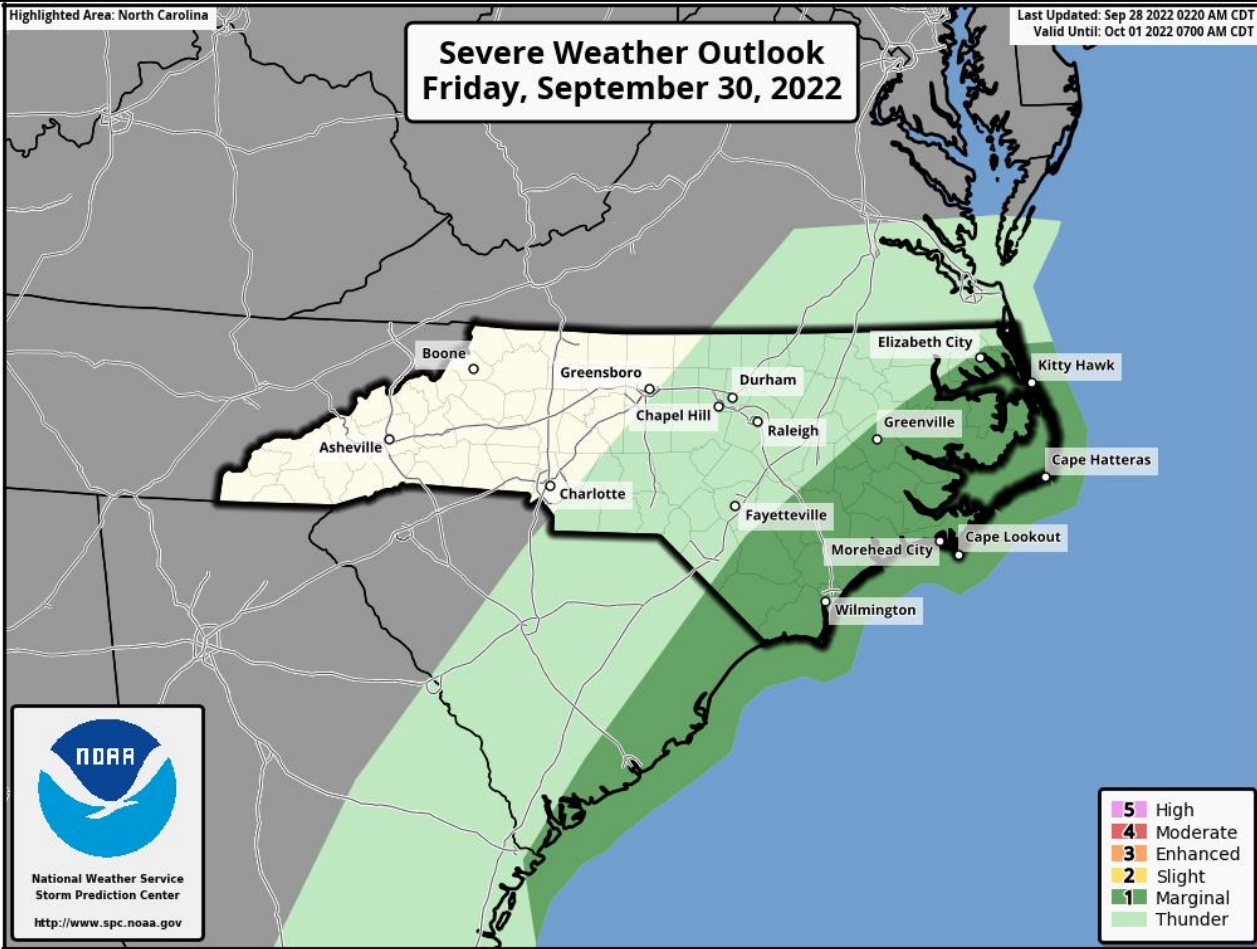
National Weather Service
Raleigh, North Carolina
09/28/2022 06:02 AM EDT

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Gusty winds of 25-40 mph (stronger along the coast) Friday and Saturday, and saturated soils could lead to some downed trees and isolated power outages. Northeasterly and easterly winds along the coast may lead to areas of coastal flooding Thursday afternoon – Saturday morning. A Coastal Flood Watch is in effect for Beaufort, Pamlico, southern Craven, and eastern Carteret counties as 1-3' of inundation is possible in low-lying areas near shorelines in tidal waterways.

FRIDAY'S SEVERE STORM THREAT

STORM PREDICTION CENTER (VALID 8AM 9/30/22 - 8AM 10/1/22)



THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible
<ul style="list-style-type: none"> Winds to 40 mph Small hail 	<ul style="list-style-type: none"> Winds 40-60 mph Hail up to 1" Low tornado risk 	<ul style="list-style-type: none"> One or two tornadoes Reports of strong winds/wind damage Hail ~1", isolated 2"
3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
<ul style="list-style-type: none"> A few tornadoes Several reports of wind damage Damaging hail, 1 - 2" 	<ul style="list-style-type: none"> Strong tornadoes Widespread wind damage Destructive hail, 2" + 	<ul style="list-style-type: none"> Tornado outbreak Derecho

Isolated Severe Storms Possible Friday Afternoon and Overnight Across Eastern NC:

✓ Brief Tornadoes

HAZARDS SUMMARY

HURRICANE IAN

September 28, 2022 – 8AM



HAZARD	DETAILS	IMPACTS	THREAT
Storm Surge	The southern & western Pamlico Sound, Neuse/Bay/Pamlico/Pungo Rivers are most at risk of seeing coastal flooding with 1-3' of inundation due to NE and E winds. Minor coastal flooding also possible along the immediate coast.		Moderate
Heavy Rain/ Flooding	<ul style="list-style-type: none"> • 2-5" for much of NC • 5-7"+ near the coast and Blue Ridge Escarpment 	Heavy rain could lead to localized flash flooding, possible landslides across the mountains, and rises on main-stem rivers. The greatest flash flooding threat will be Saturday along and near the Blue Ridge Escarpment.	High
Damaging Winds	<ul style="list-style-type: none"> • Gusts of 25-40 mph across much of the state Friday & Saturday, with stronger gusts possible along the immediate coast and higher elevations of western NC. 	Widespread wind impacts are not currently expected, but isolated downed trees and power outages will be possible late Friday and into the weekend due to breezy conditions and saturated soils.	Low
Tornadoes	A few isolated tornadoes will be possible, primarily late Friday and into Saturday across eastern portions of the state. Tornadoes associated with tropical systems are generally brief, but offer very little lead time.		Low
Marine & Coastal	Strong winds and large waves will create hazardous marine conditions, dangerous rip currents, and possible beach erosion Thursday through Sunday.		Moderate

Threat Levels:

None

Low

Moderate

High

Extreme