

IMPACTS FOR D7 (through next 5 days)

Winds – High

Storm Surge – High

Rainfall/Flash Flooding – High

Tornadoes – Low

Waves - Extreme

HURRICANE IAN BRIEFING

4:00 PM EDT

Friday, September 30, 2022

Prepared by:

Amanda Reinhart

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

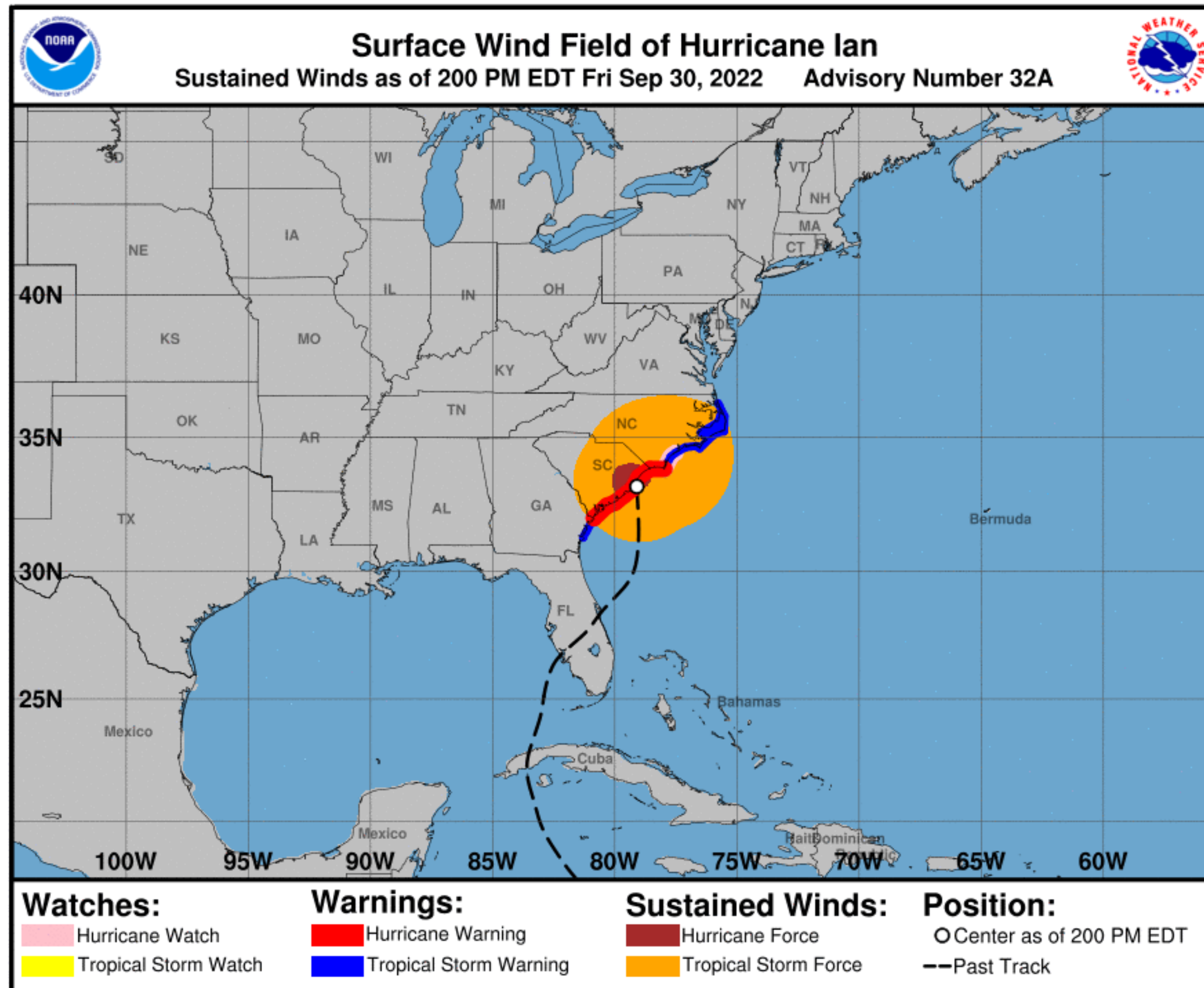
www.nhc.noaa.gov

Situation Overview

Hurricane Ian



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...THE CENTER OF IAN HAS MADE LANDFALL...

**...LIFE-THREATENING STORM SURGE,
DAMAGING WINDS AND FLASH
FLOODING LASHING THE CAROLINAS...**

Summary of 205 PM EDT Information

Location...33.3N 79.2W

About 50 miles NE of Charleston, SC

Maximum Sustained Winds...75 kt

Present Movement...N at 15 kt

Minimum Central Pressure...977 mb

Peak Seas...27 ft

Size:

64 KT..... 40NE 0SE 40SW 60NW.

50 KT..... 80NE 60SE 80SW 80NW.

34 KT.....240NE 130SE 120SW 140NW.

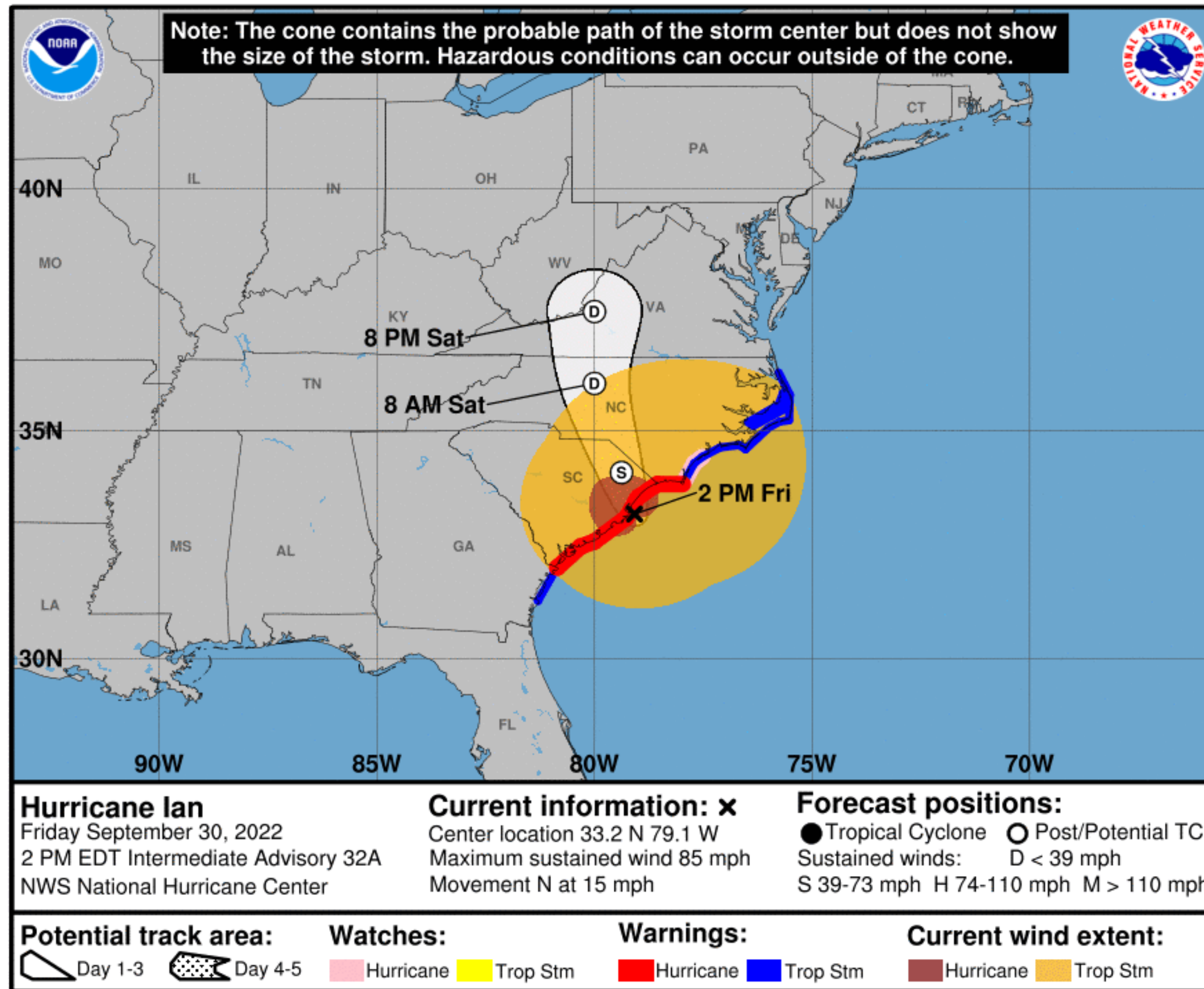
12 FT SEAS..300NE 270SE 180SW 60NW.

Forecast Information

Hurricane Ian



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- Ian will continue accelerating to the NNW this evening
- Ian expected to quickly weaken as it moves farther inland tonight and dissipate by Sat
- Current center forecast positions through the next 5 days (if applicable) illustrated by dots
- White swath of potential track error added to each side of the forecast track through day 3
- Hatched swath of potential track error added to each side of the forecast track days 4-5

** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

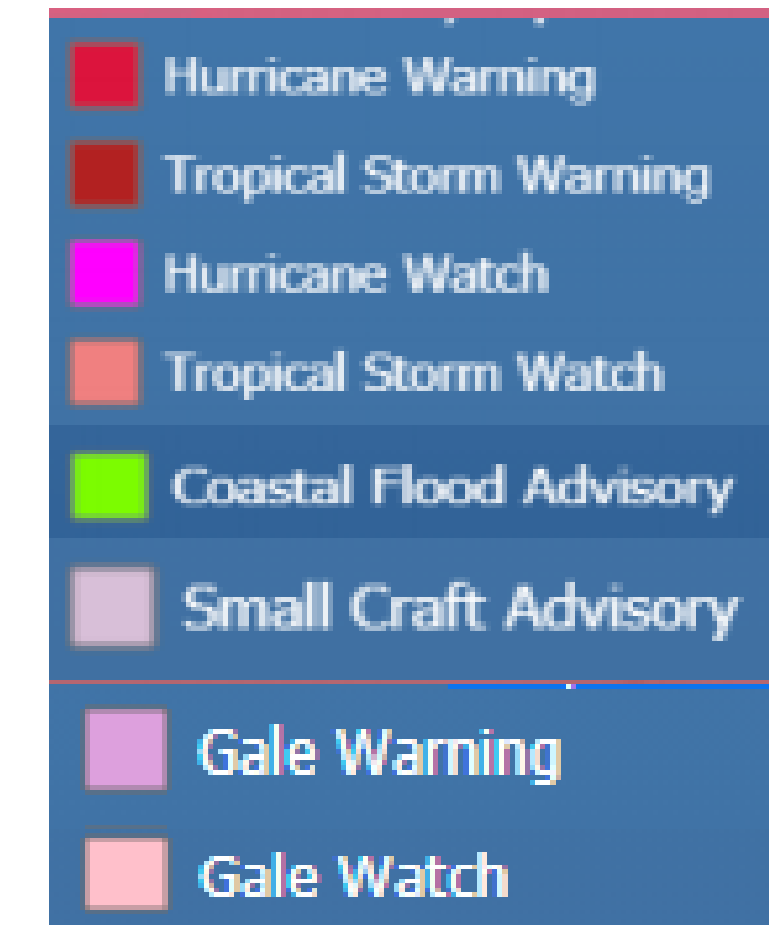
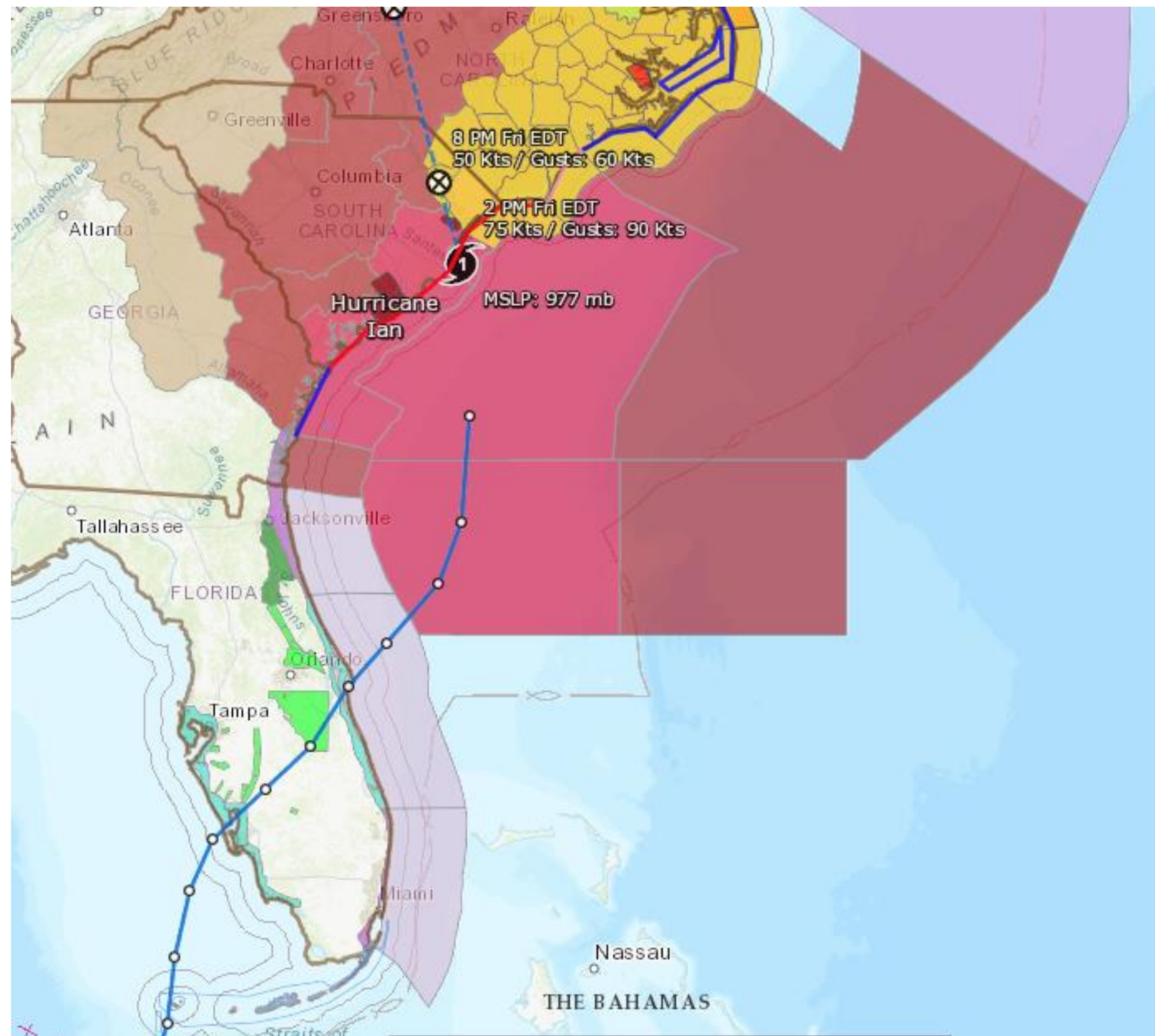
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Hurricane Ian



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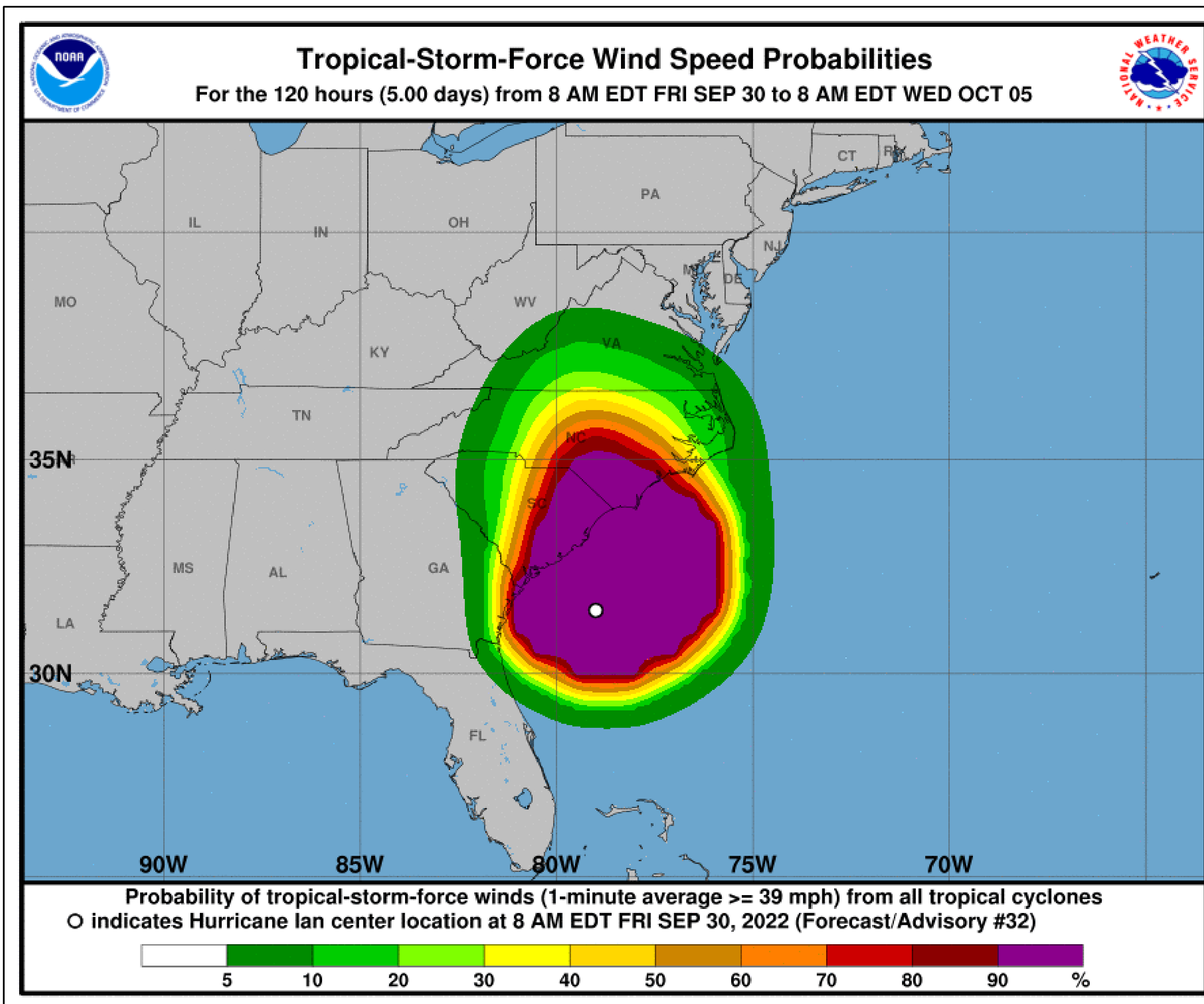


T.S. Wind Speed Probabilities

Hurricane Ian



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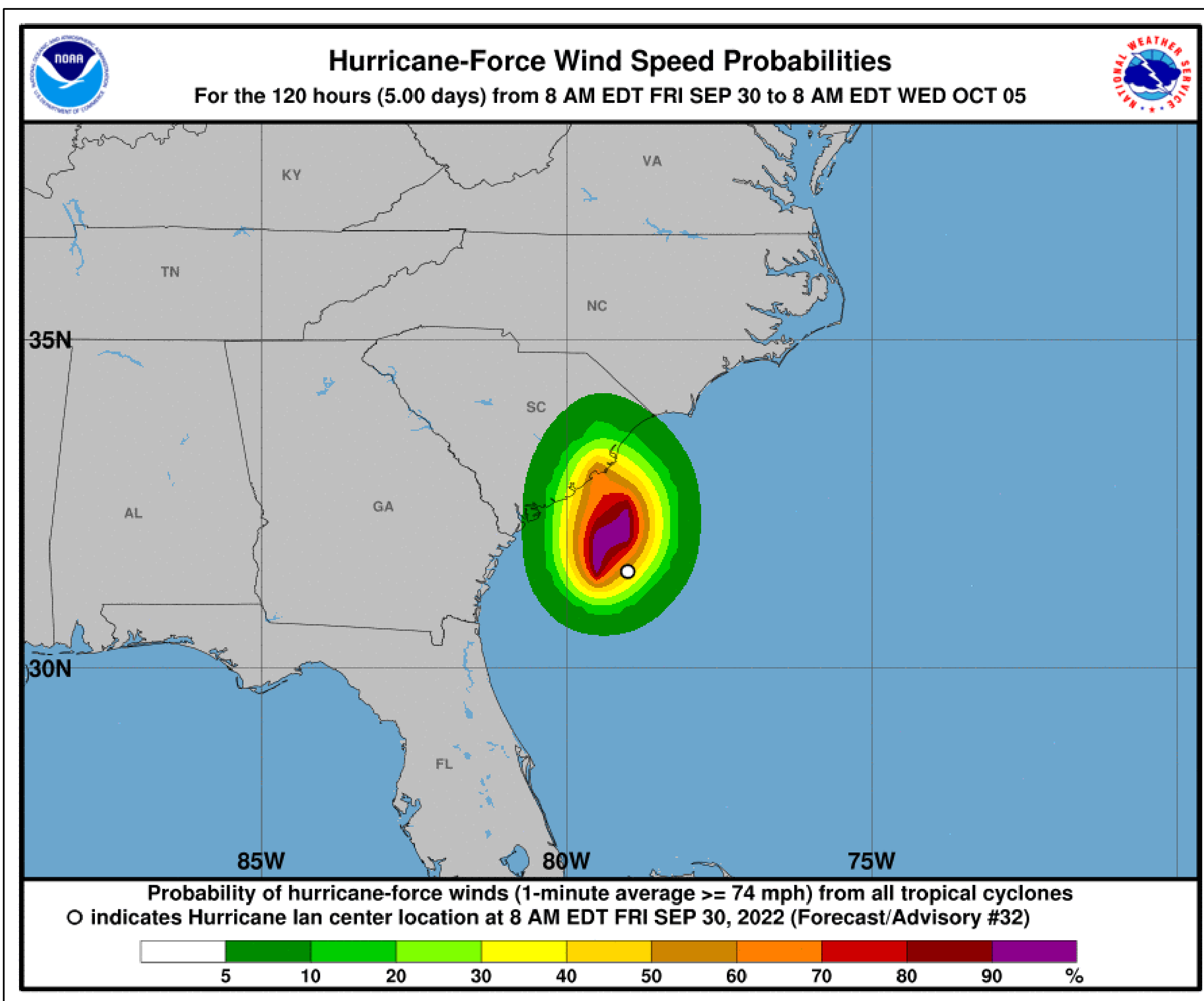
- **FLORENCE – 100%**
- **MYRTLE BEACH – 100%**
- **GEORGETOWN – 100%**
- **CHARLESTON - 100%**
- **BEAUFORT - 100%**
- **COLUMBIA – 40%**
- **SAVANNAH – 15%**
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Hurricane Wind Speed Probabilities

Hurricane Ian



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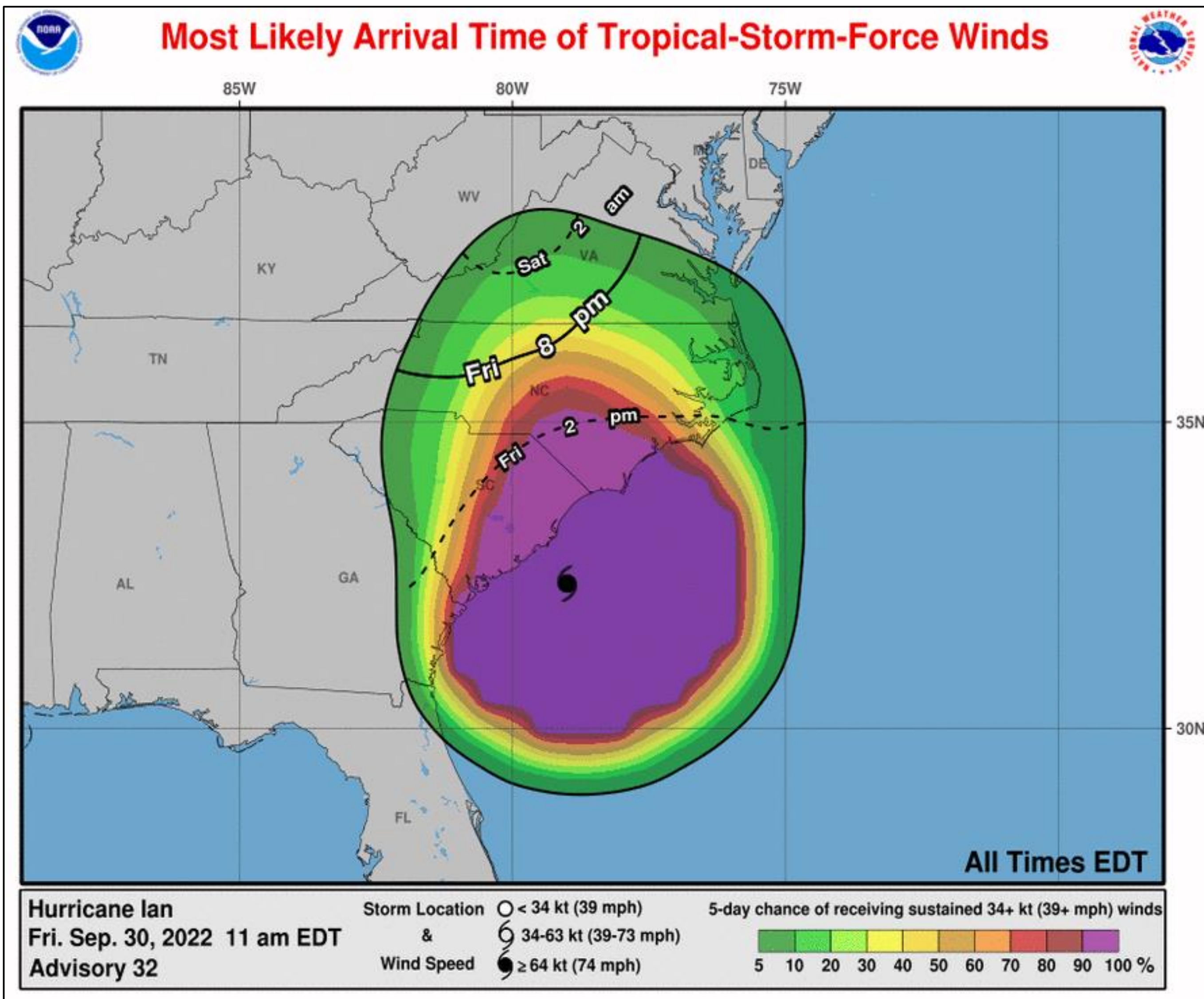
- **FLORENCE SC – 5%**
- **MYRTLE BEACH – 5%**
- **GEORGETOWN SC – 30%**
- **CHARLESTON SC – 5%**
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities

Hurricane Ian



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- **Inland South Carolina – This afternoon**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Time of Departure

Hurricane Ian



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MOST LIKELY

- Savannah, GA – This afternoon
- Beaufort, SC – This afternoon
- **Charleston, SC – This evening**
- **Georgetown, SC – This evening**
- Myrtle Beach, SC – Tonight

LATEST REASONABLE

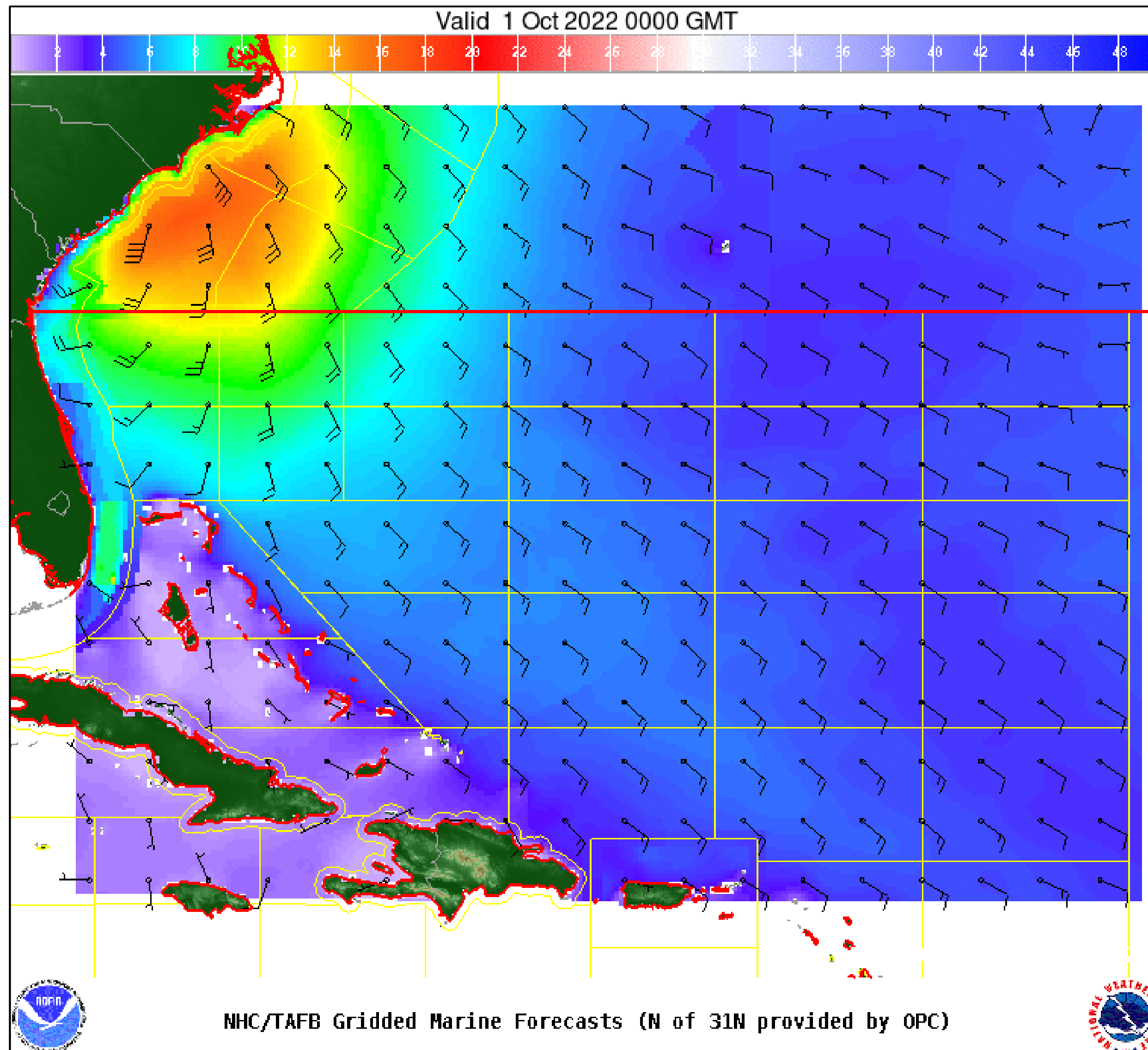
- Savannah, GA – This afternoon
- Beaufort, SC – This evening
- **Charleston, SC – Tonight**
- **Georgetown, SC - Tonight**
- Myrtle Beach, SC – Early Saturday morning

Wind And Waves

Hurricane Ian



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Current Conditions

5pm EDT Friday, Sept 30

Peak Winds: 55 kt

Peak Seas: 25 ft

- Wave heights are in feet



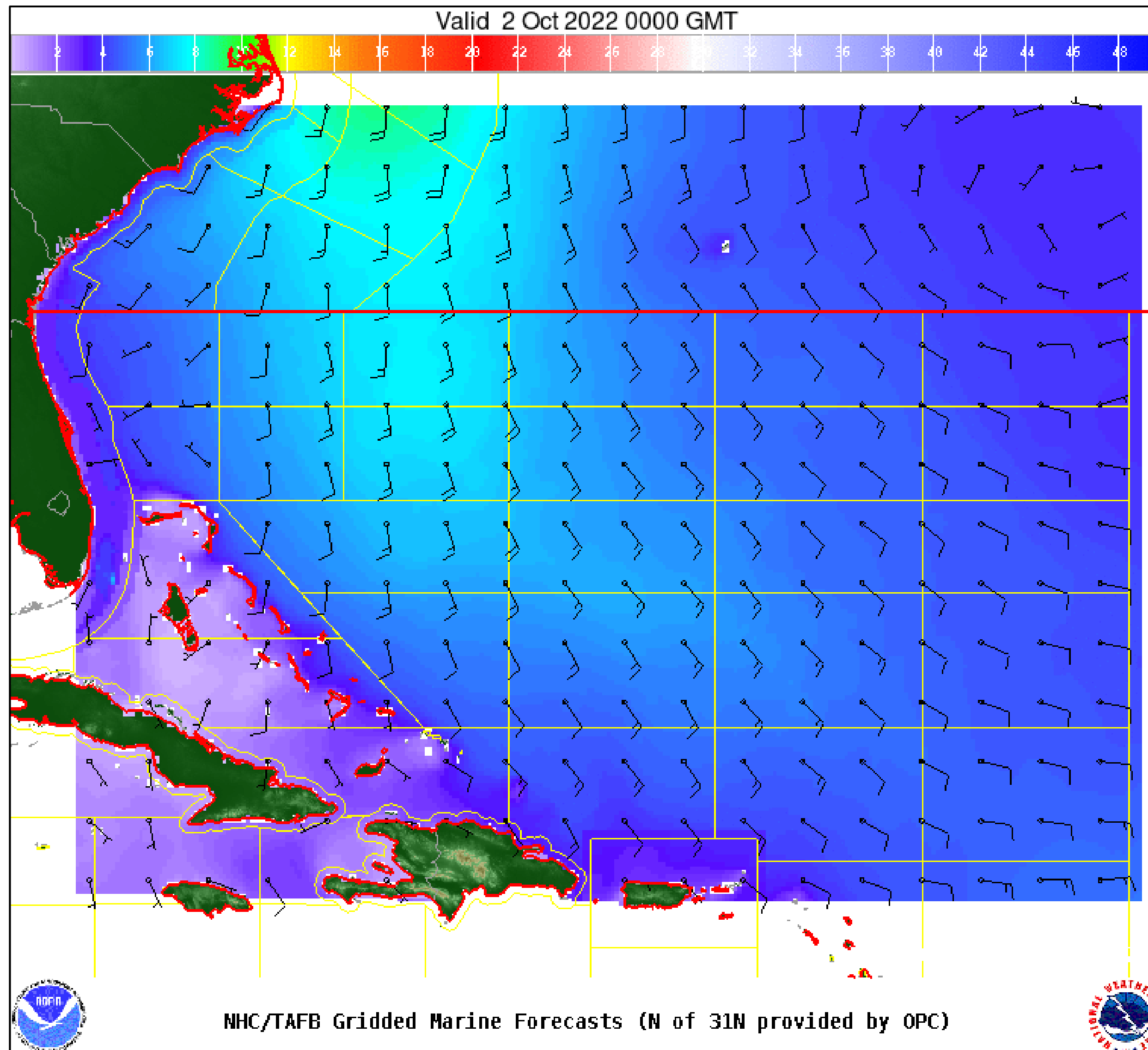
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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24 Hour Forecast

5pm EDT Saturday, Oct 1

Peak Winds: 20 kt

Peak Seas: 10 ft

- Wave heights are in feet



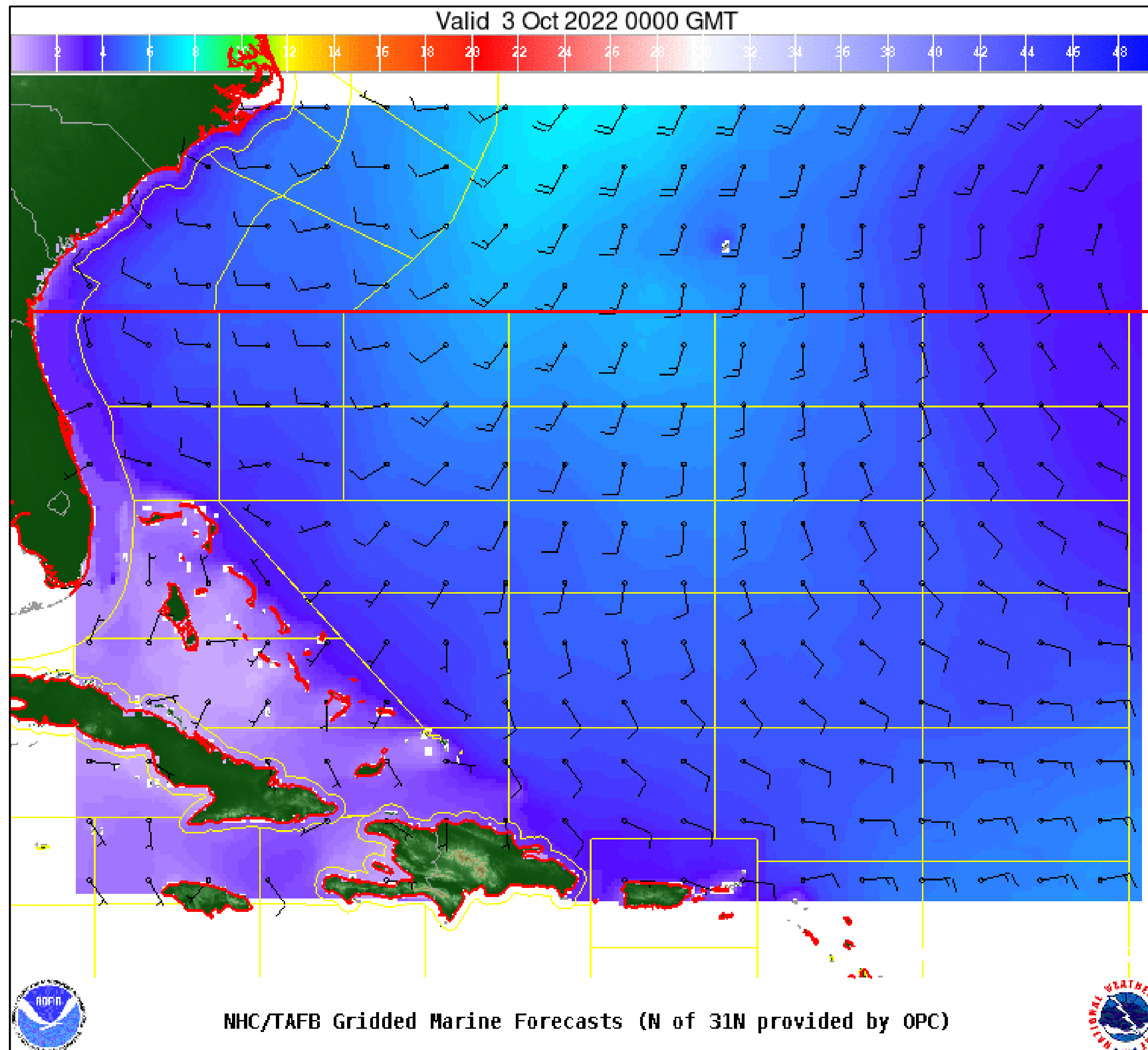
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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48 Hour Forecast

5pm EDT Sunday, Oct 2

Peak Winds: 10 kt

Peak Seas: 5 ft

■ Wave heights are in feet



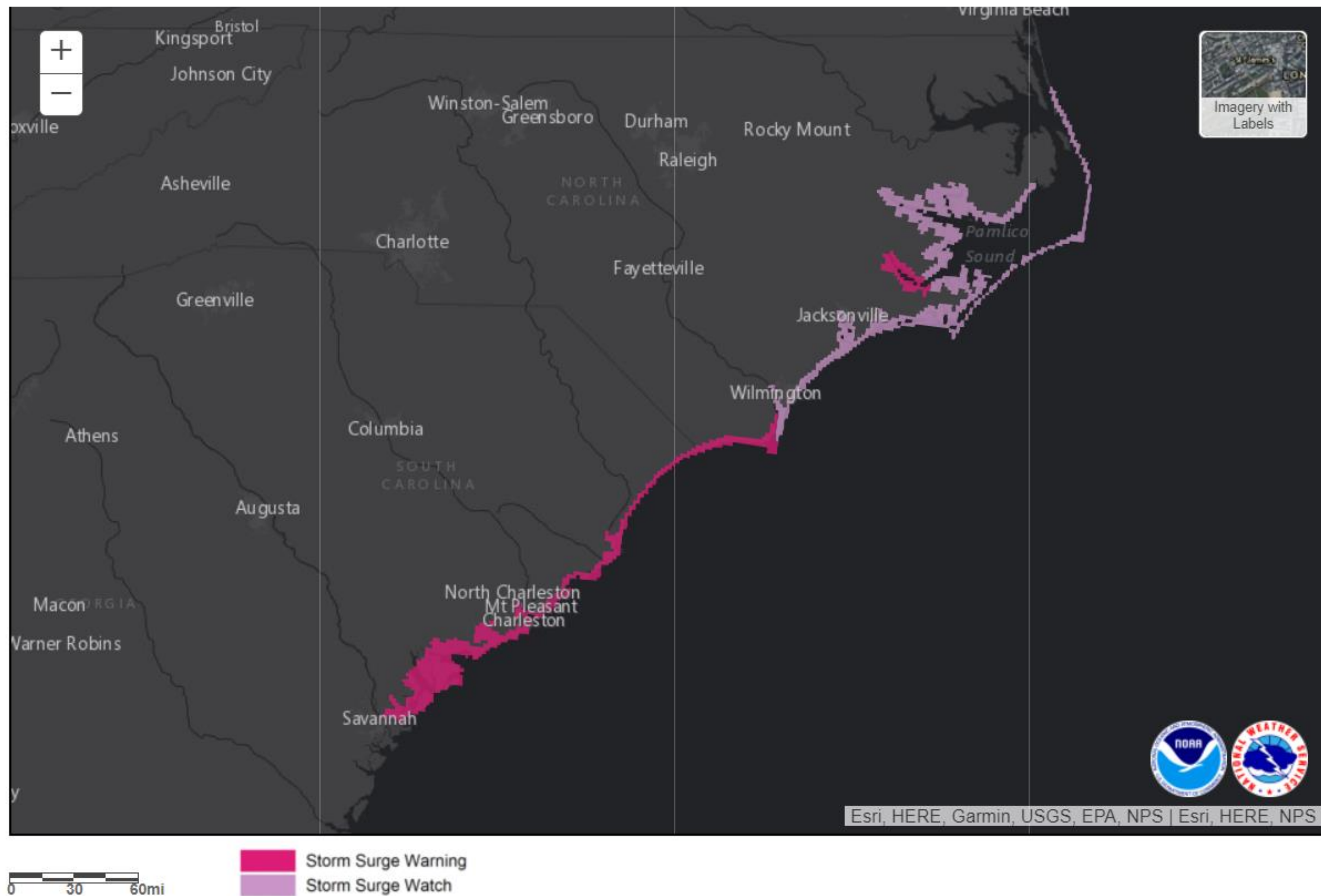
Significant Wave Height (ft)

Potential Peak Storm Surge / Watches and Warnings



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NWS National Hurricane Center

Hurricane Ian



Storm Surge Warning

- Savannah River to Cape Fear North Carolina
- Neuse River North Carolina
- St. Johns River Florida

Storm Surge Watch

- North of Cape Fear to Duck North Carolina
- Pamlico River
- Cape Fear River

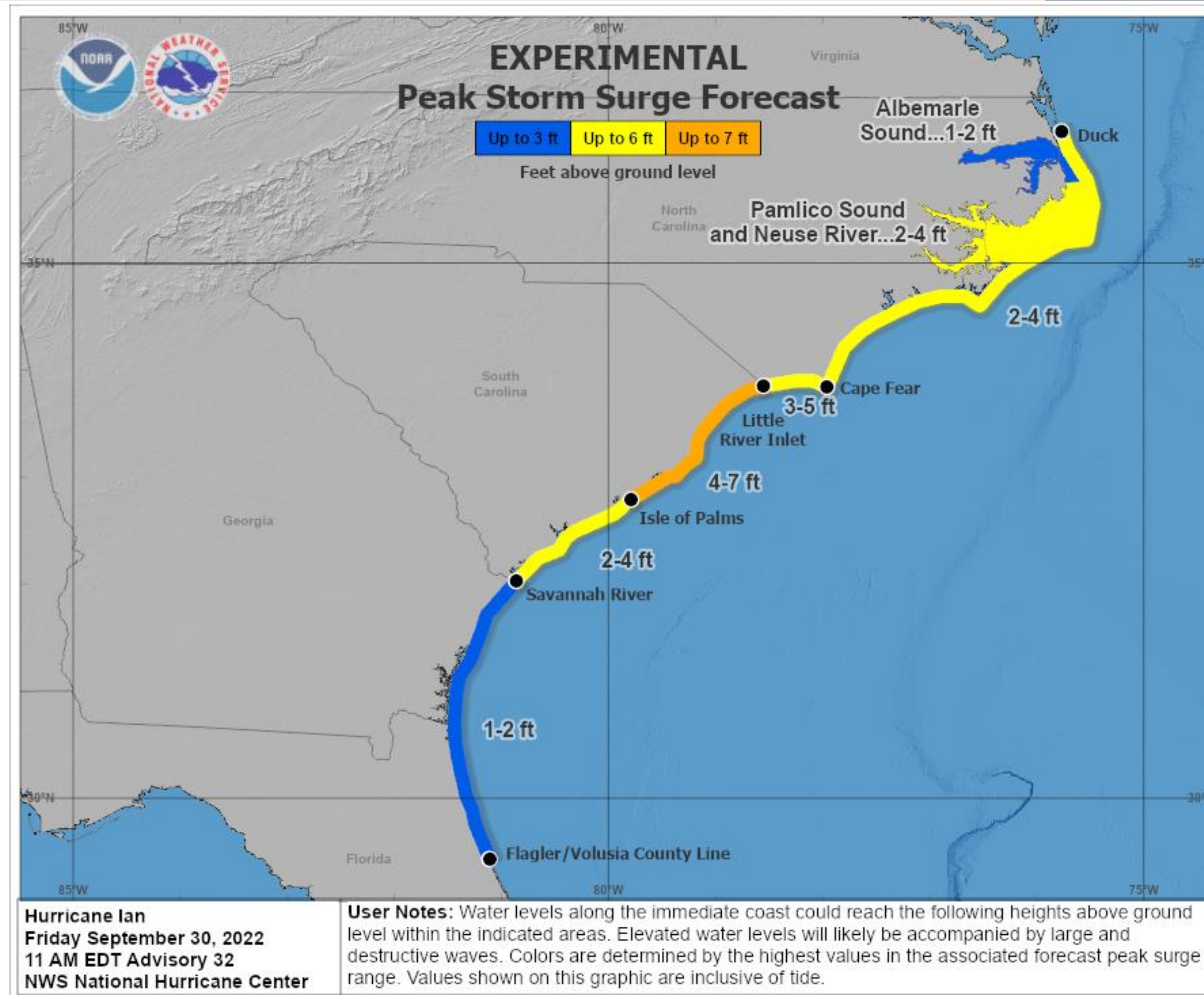
- Potential storm surge is represented in feet above the ground at any given point.

Potential Storm Surge

Hurricane Ian



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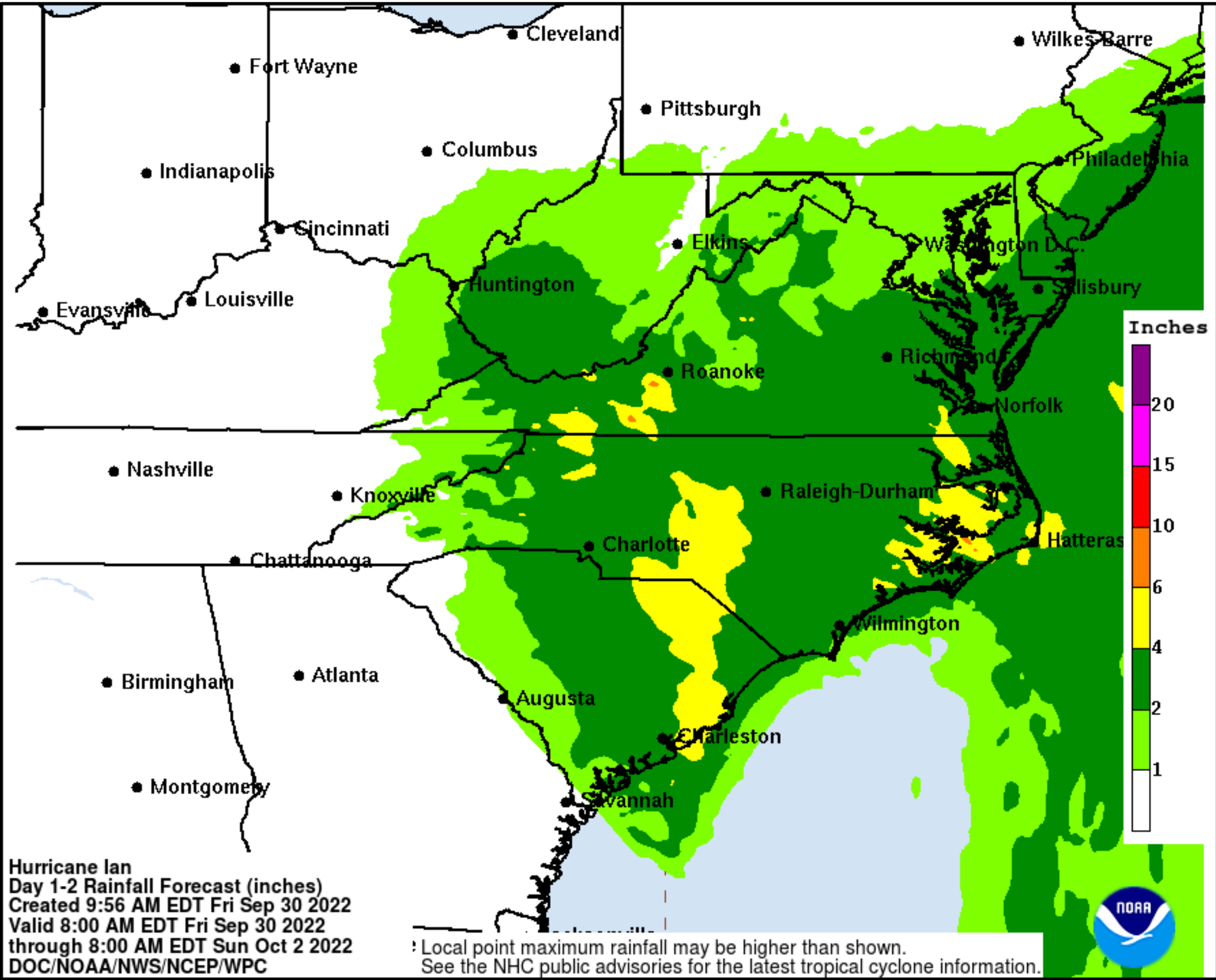
Expected Storm Total Rainfall and Chance of Rainfall Flooding



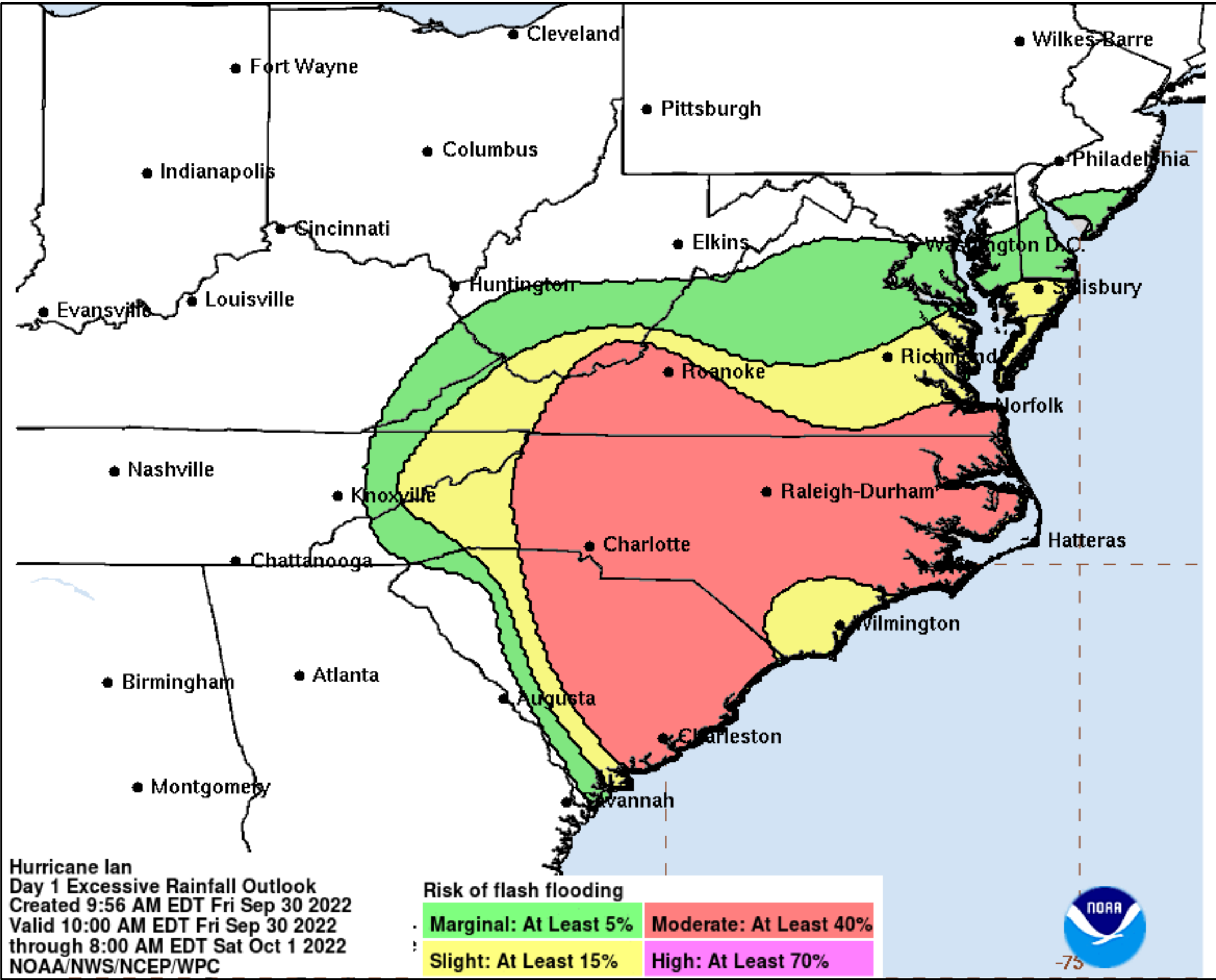
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Hurricane Ian

Images from NWS Weather Prediction Center



Valid through Sunday morning



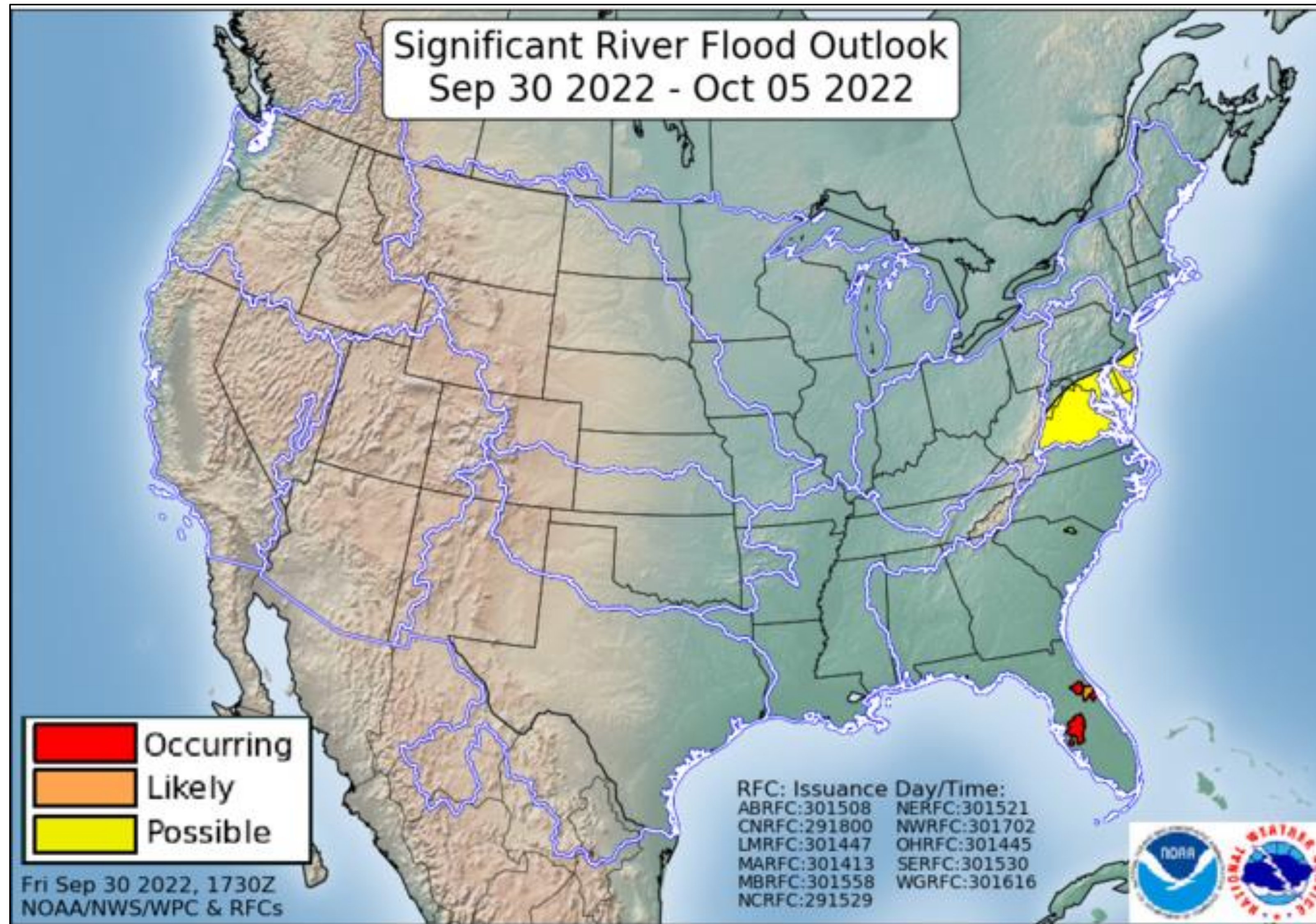
Valid through Saturday morning

Flood Outlook

Hurricane Ian



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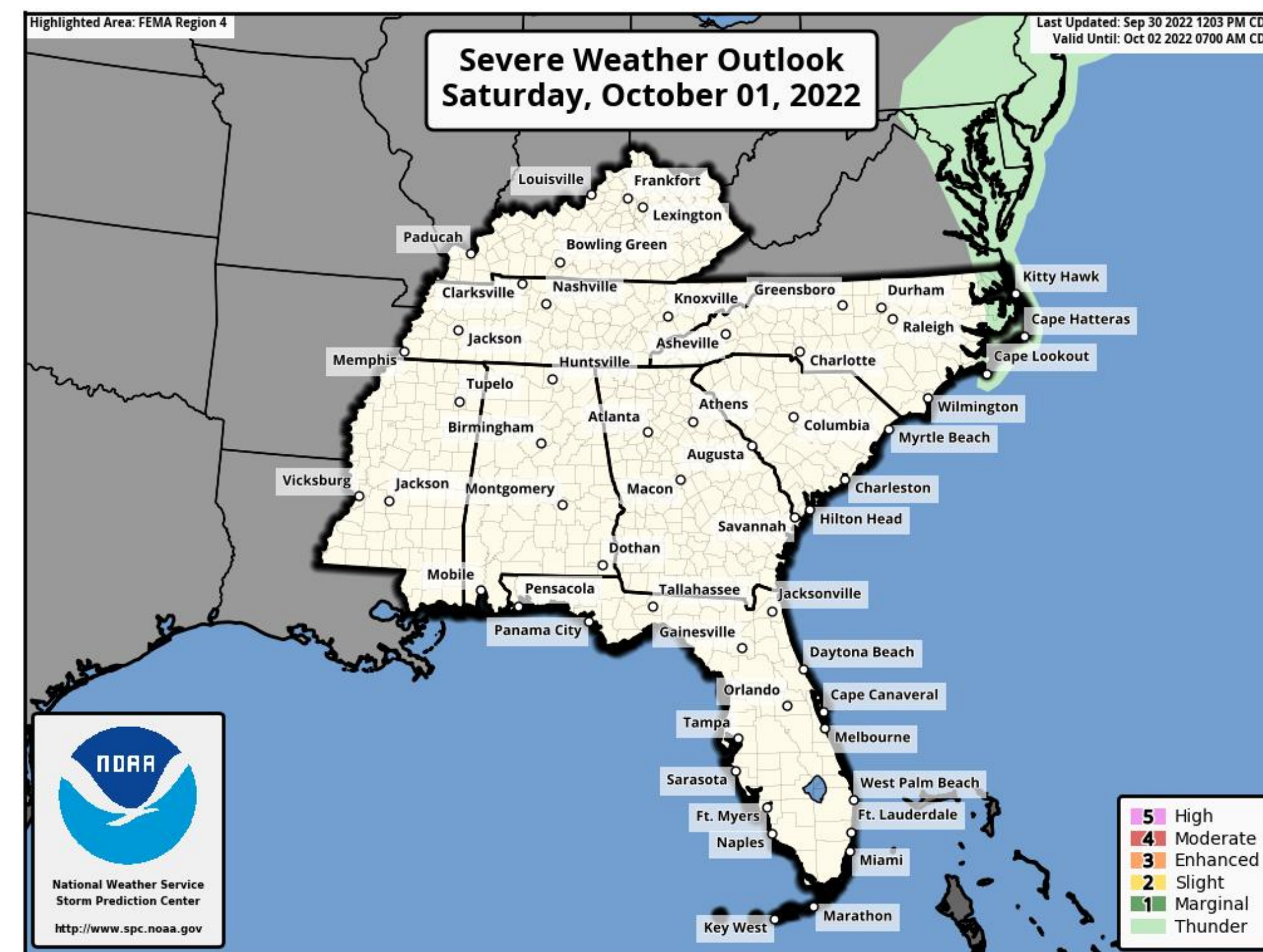
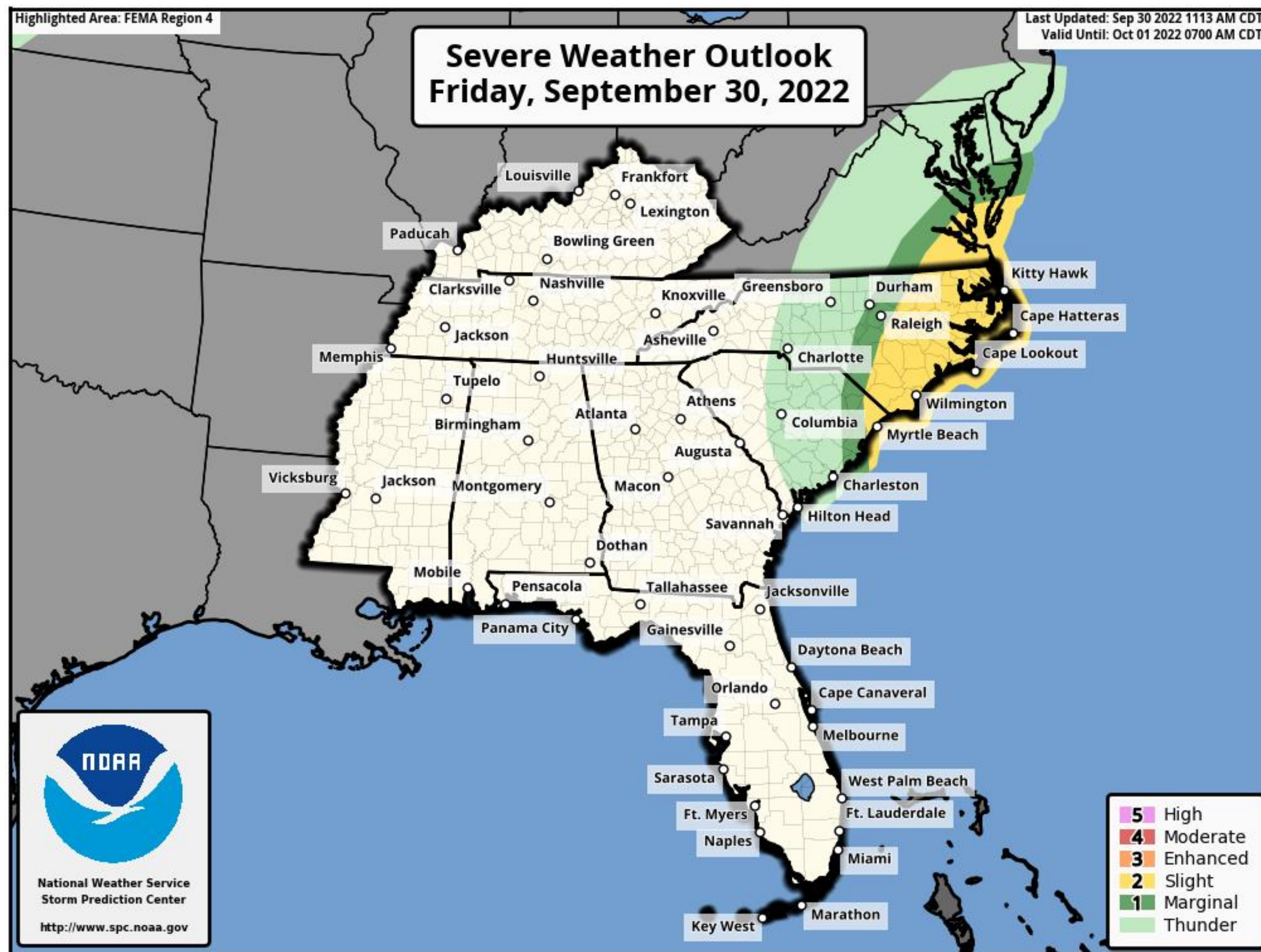
Tornado Outlook – Day 1 & 2

Hurricane Ian

Image from NWS Storm Prediction Center



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NWS National Hurricane Center



Key Messages

Hurricane Ian



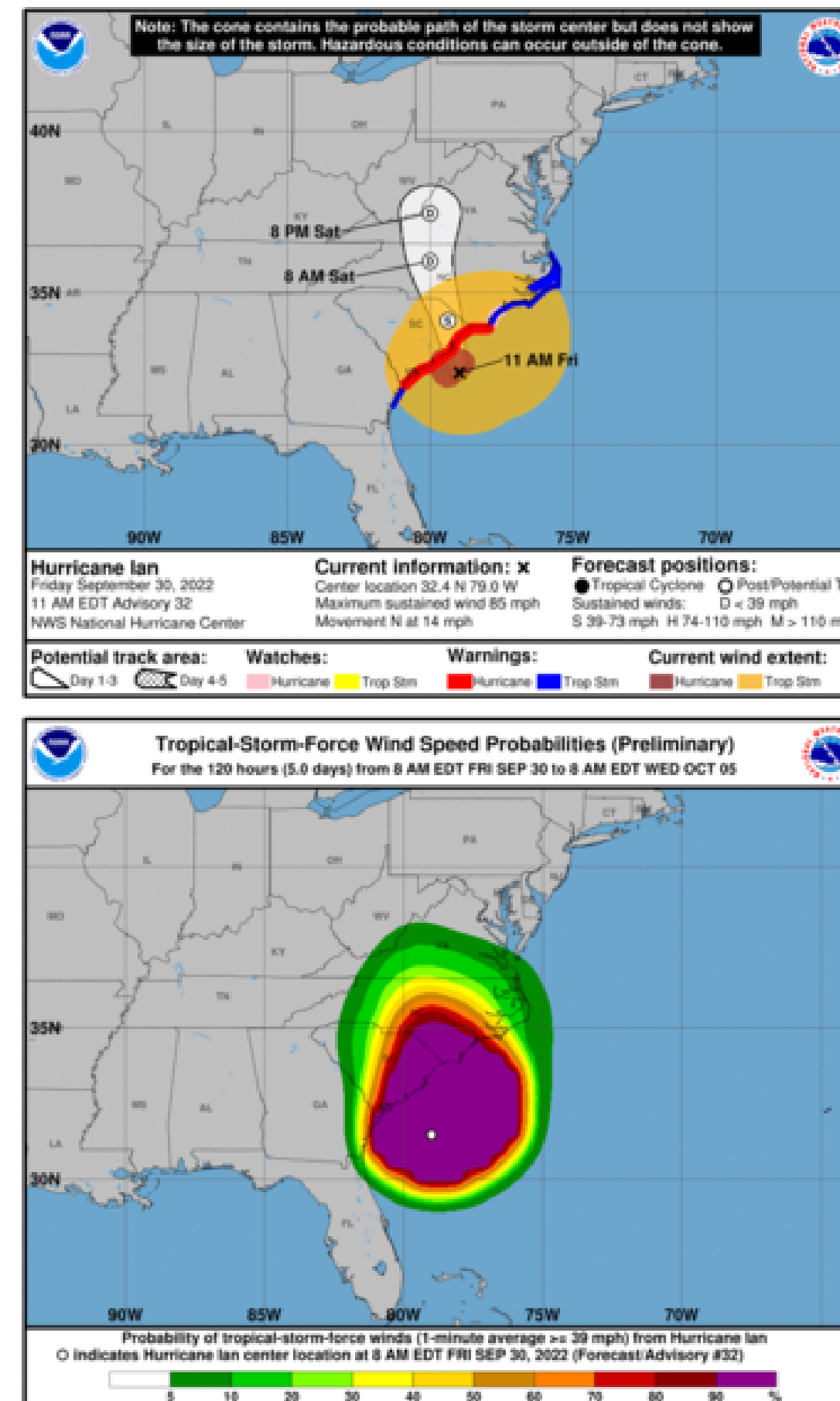
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Key Messages for Hurricane Ian Advisory 32: 11:00 AM EDT Fri Sep 30, 2022



1. There is a danger of life-threatening storm surge today along the coasts of the Carolinas within the Storm Surge Warning areas.
2. Hurricane-force winds are expected along the coasts of South Carolina and southeastern North Carolina within the Hurricane Warning area soon. Hurricane conditions are possible in North Carolina within the Hurricane Watch area by this afternoon. Preparations should be rushed to completion.
3. Ongoing major-to-record river flooding will continue through next week across portions of central Florida. Considerable flooding is expected today across portions of coastal and northeast South Carolina, coastal North Carolina and southeast Virginia. Locally considerable flooding is possible across portions of northwest North Carolina and southern Virginia today into early Saturday.



For more information go to hurricanes.gov

IMPACTS FOR D7 (through next 5 days)

Winds – **High**

Storm Surge – **High**

Rainfall/Flash Flooding – **High**

Tornadoes – **Low**

Waves - **Extreme**

Marine Key Messages:

- Seas will subside off the Florida coast through tonight and improve by Sat morning
- Seas off the Georgia/South Carolina coast will subside through Sat with seas dropping below 8 ft by Sat afternoon



HURRICANE IAN BRIEFING

You can contact the Tropical Analysis and Forecast Branch at
305-229-4424

*The Next Briefing Will Be:
Saturday 9:00 AM EDT*

You can always find get the latest graphics and information for this storm at www.hurricanes.gov



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