

IMPACTS FOR D7 (through next 5 days)

Winds – High

Storm Surge – High

Rainfall/Flash Flooding – High

Tornadoes – Low

Waves - Extreme

HURRICANE IAN BRIEFING

9:00 AM EDT

Friday, September 30, 2022

Prepared by:

Amanda Reinhart

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

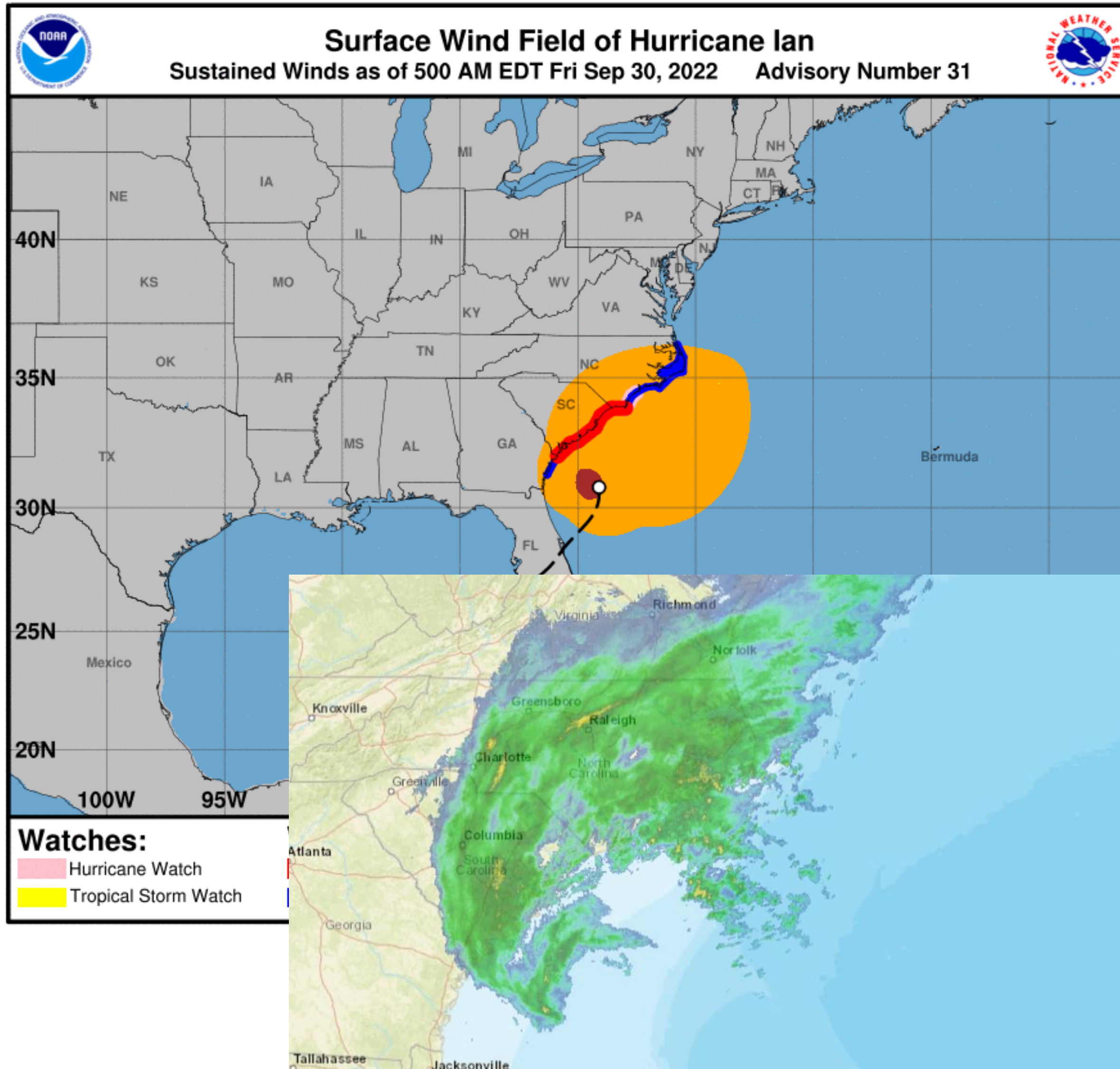


Situation Overview

Hurricane Ian



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...TROPICAL-STORM-FORCE WINDS ONGOING ACROSS MUCH OF THE COAST OF THE CAROLINAS...

...LIFE-THREATENING STORM SURGE AND HURRICANE CONDITIONS EXPECTED BY THIS AFTERNOON...

Summary of the 800 AM EDT Information

Location...31.4N 79.1W

About 90 nm SSE of Charleston, SC

About 160 nm SSW of Cape Fear, NC

Maximum Sustained Winds...75 kt

Present Movement...N at 8 kt

Minimum Central Pressure...984 mb

Peak Seas...33 ft

Size:

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

50 KT..... 80NE 60SE 80SW 120NW.

34 KT.....420NE 130SE 100SW 160NW.

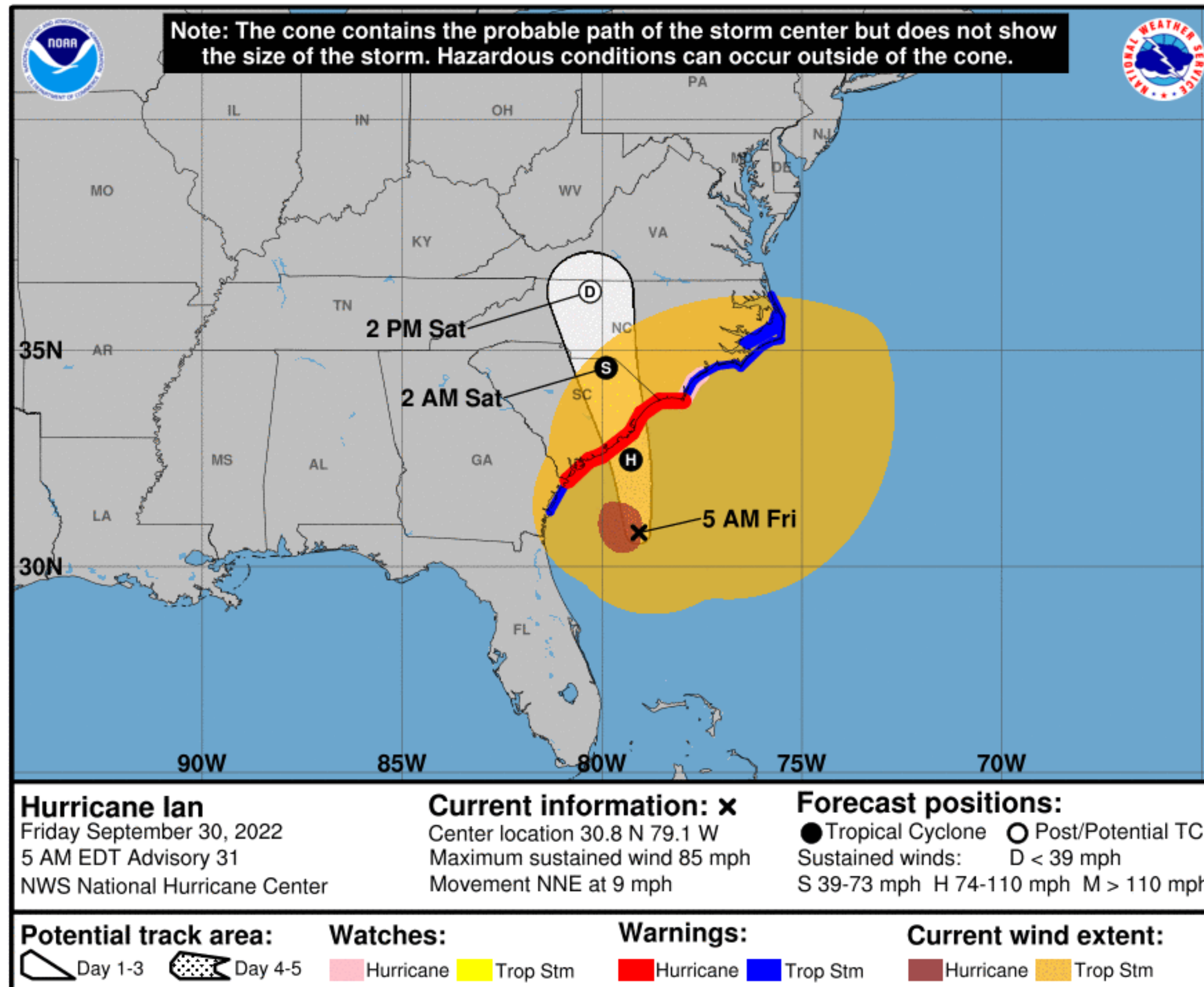
12 FT SEAS..300NE 180SE 120SW 150NW.

Forecast Information

Hurricane Ian



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- Ian will continue moving N and make landfall along the South Carolina coast this afternoon
- Ian is still expected to be a hurricane as it makes landfall and will weaken quickly as it moves farther inland
- Ian is expected to dissipate near the NC/VA border Sat night
- 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.

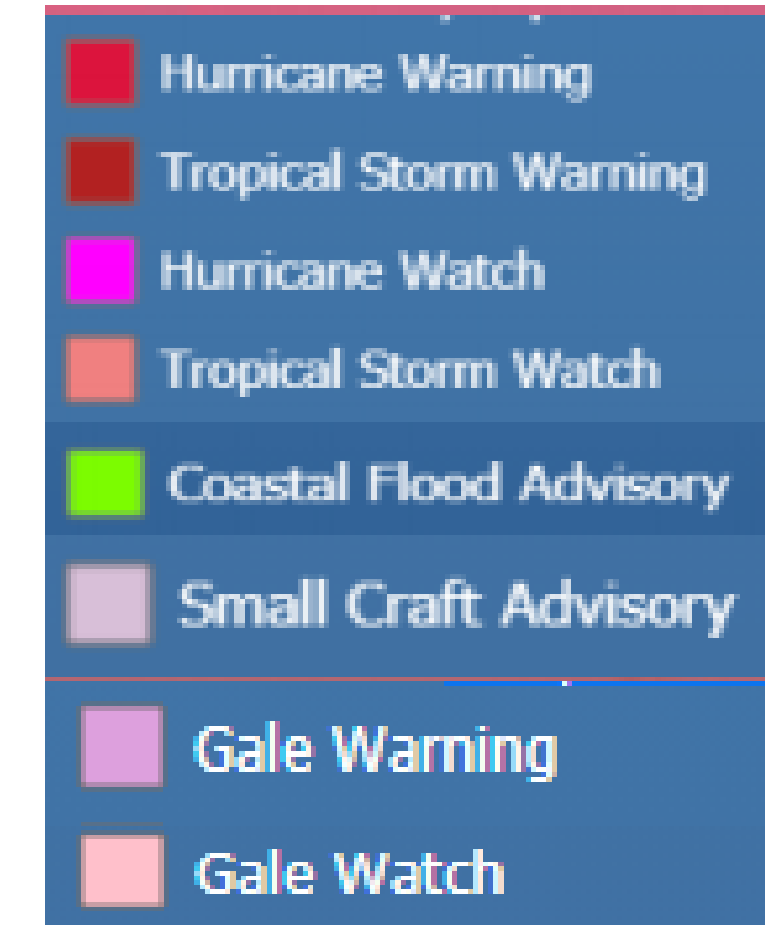
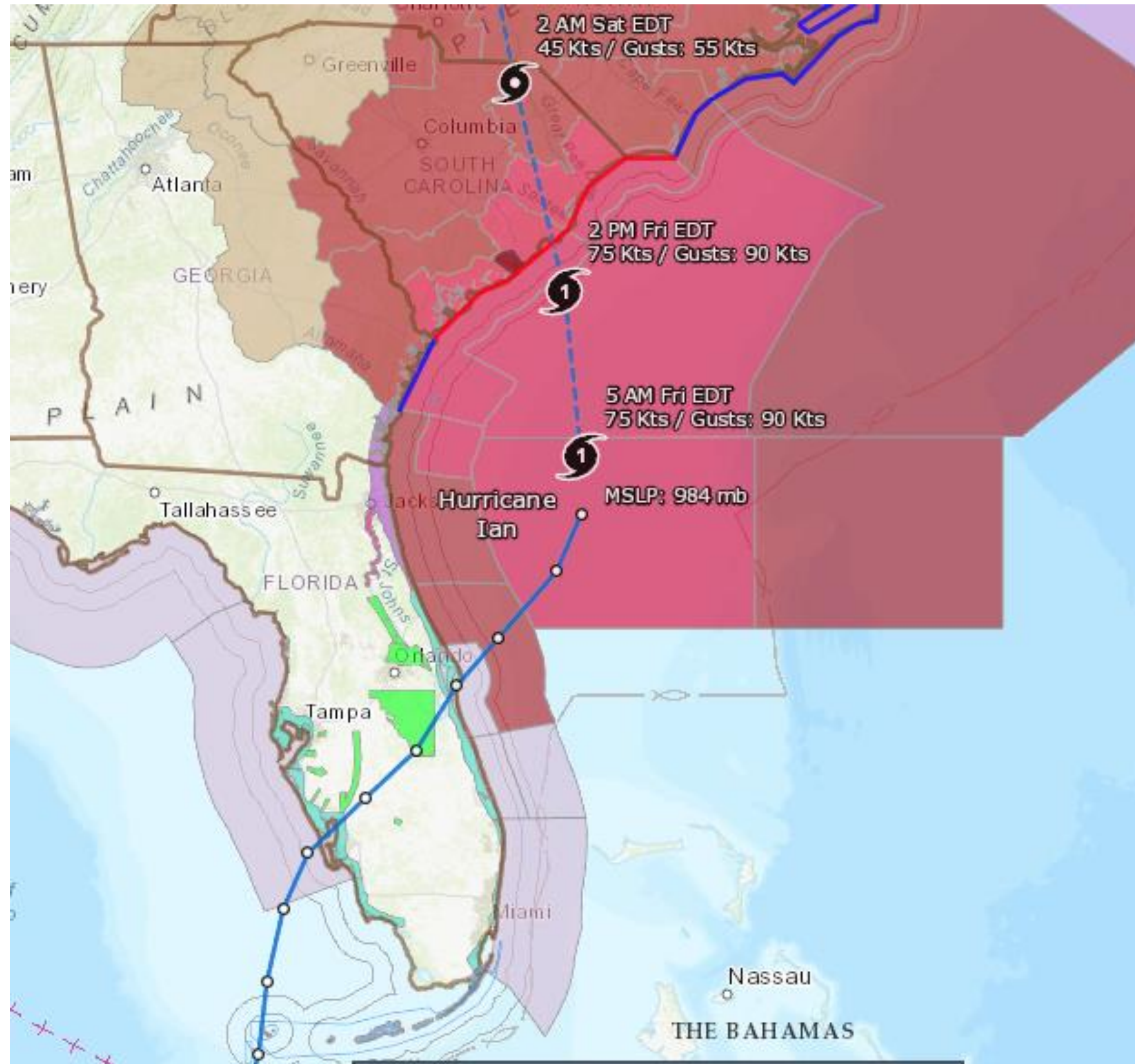
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Hurricane Ian



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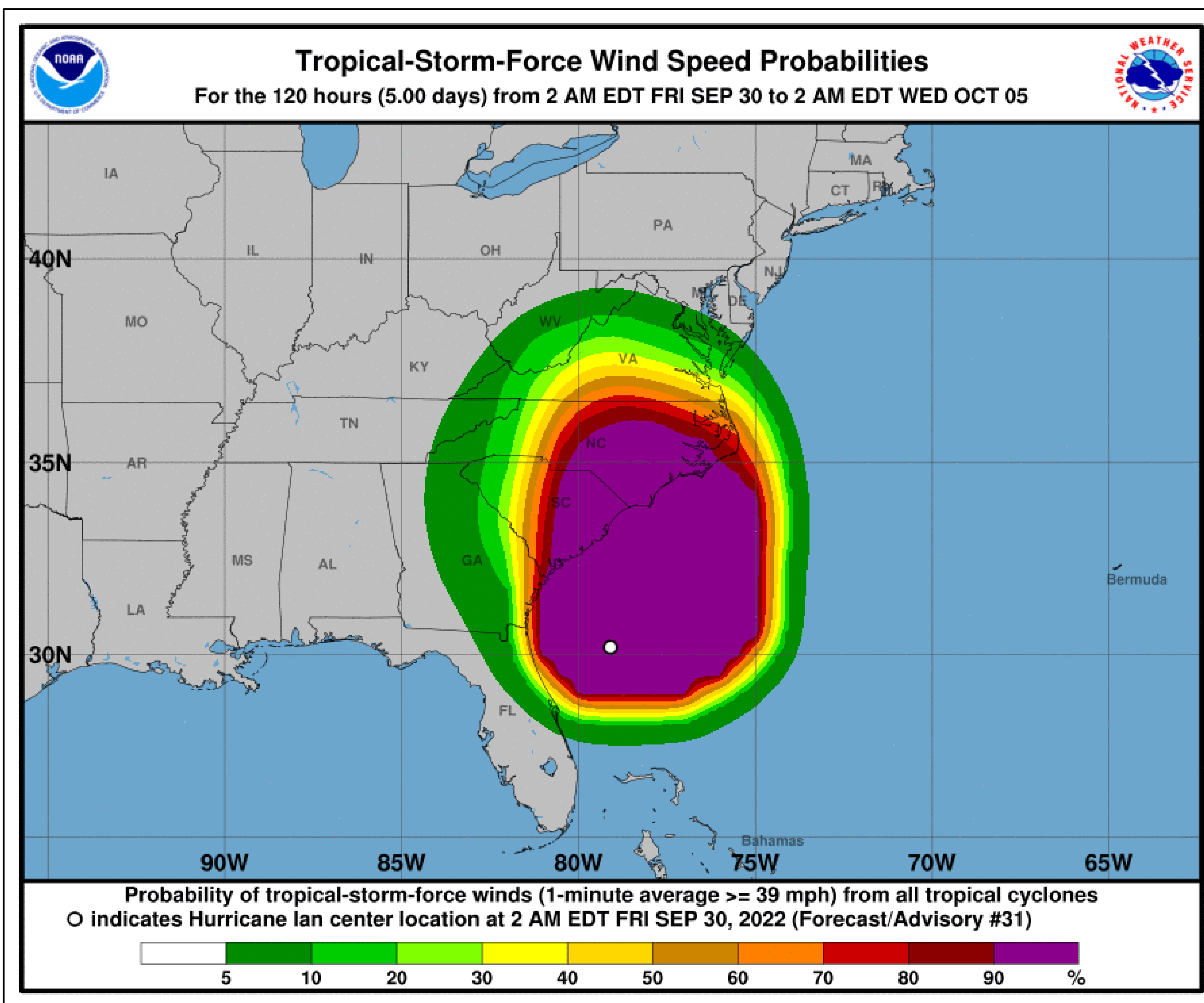


T.S. Wind Speed Probabilities

Hurricane Ian



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- **FLORENCE – 100%**
- **MYRTLE BEACH – 100%**
- **GEORGETOWN – 100%**
- **CHARLESTON - 100%**
- **BEAUFORT - 100%**
- **SAVANNAH – 70%**

- 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%

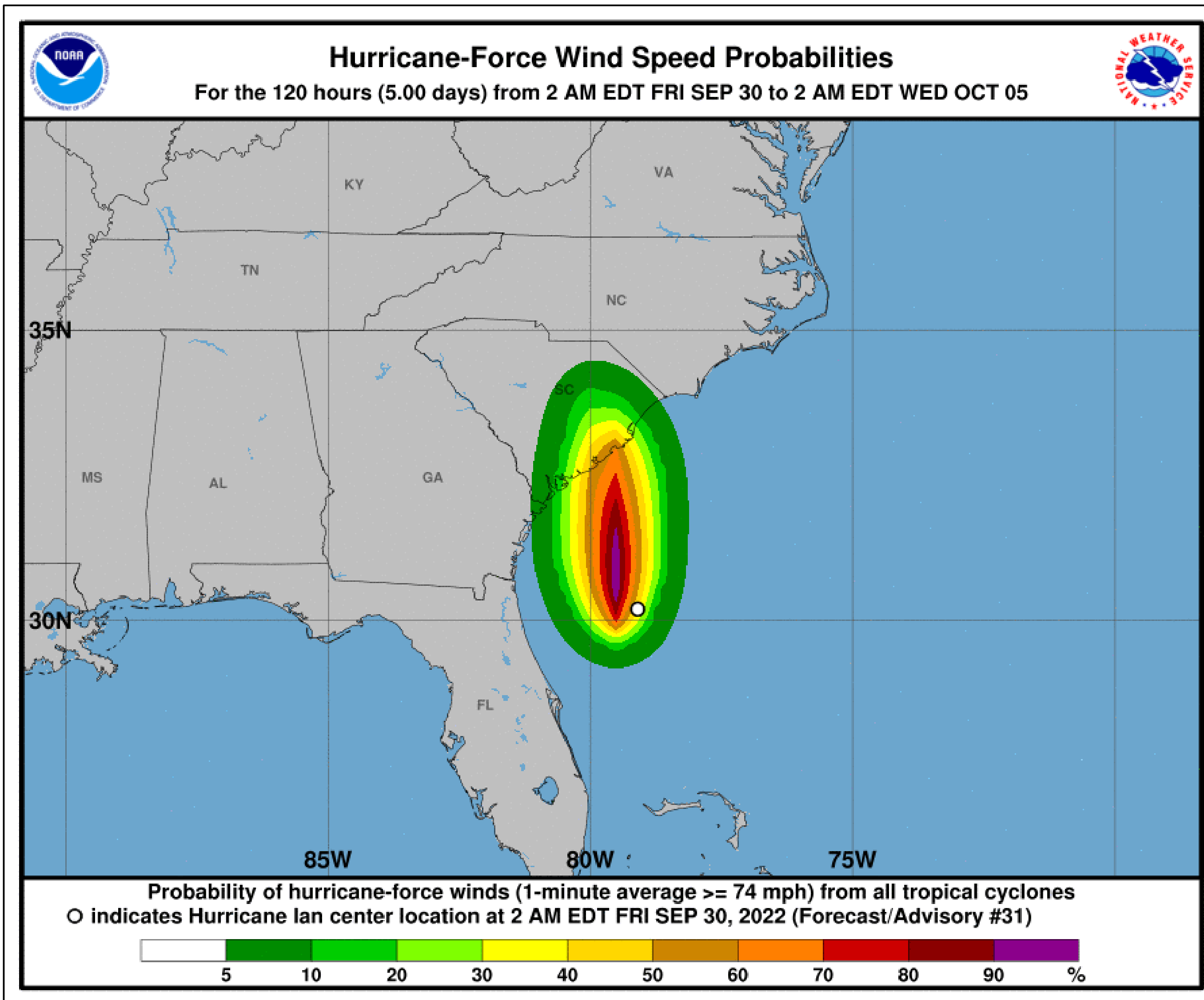
- See the color bar below the image for more details.

Hurricane Wind Speed Probabilities



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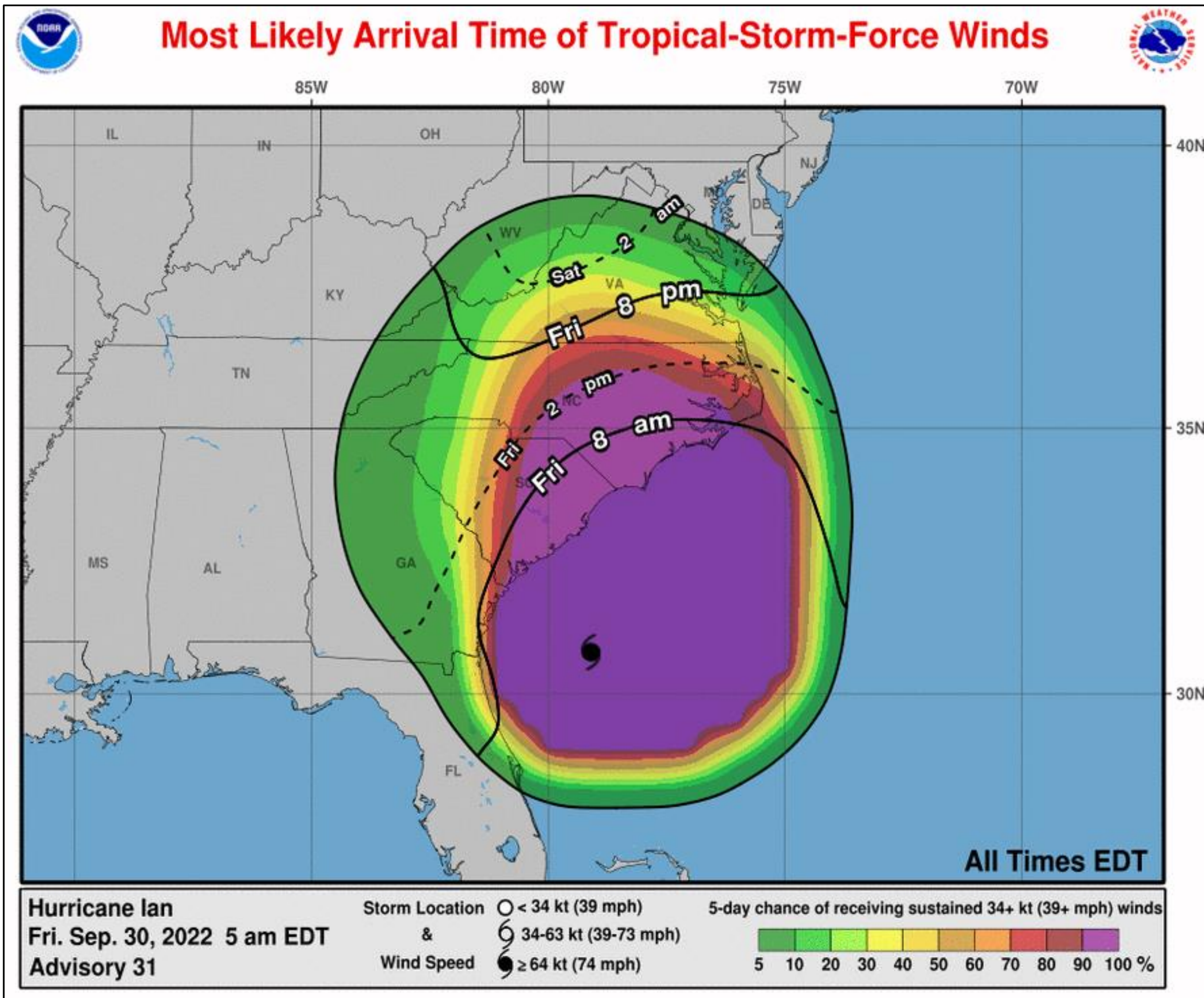
Hurricane Ian



- FLORENCE SC – 5%
- COLUMBIA SC - 20%
- MYRTLE BEACH – 5%
- GEORGETOWN SC – 25%
- CHARLESTON SC – 45%
- BEAUFORT – 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.



Hurricane Ian



- TS-force winds across South Carolina and portions of coastal Georgia are **ongoing**
- Inland South Carolina – This morning
- 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.



MOST LIKELY

- Jacksonville, FL – This evening
- Kings Bay – This afternoon
- Savannah, GA – This afternoon
- Beaufort, SC – This afternoon
- **Charleston, SC – Tonight**
- Myrtle Beach, SC – Late tonight

LATEST REASONABLE

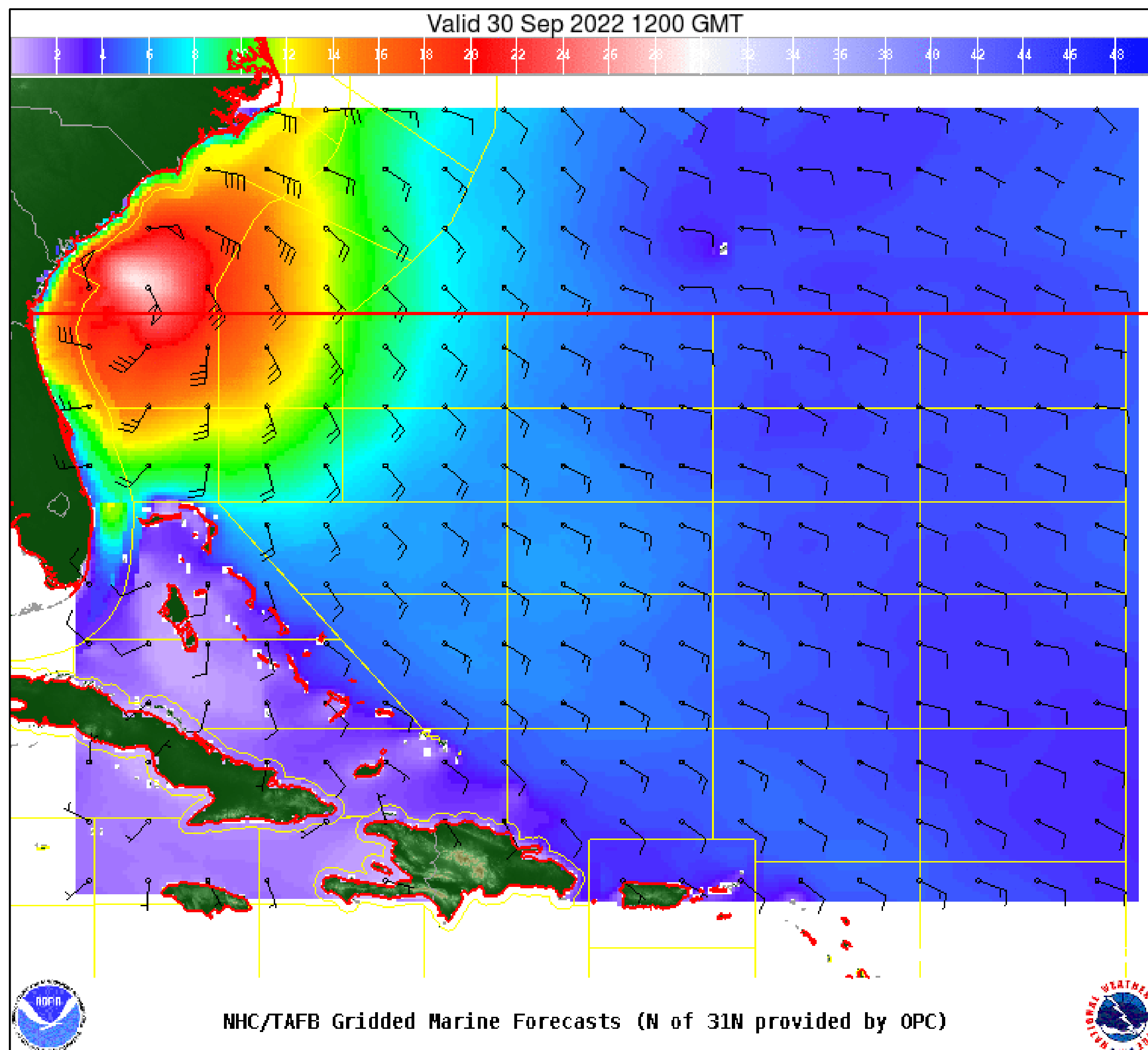
- Jacksonville, FL – Tonight
- Kings Bay – Tonight
- Savannah, GA – Tonight
- Beaufort, SC – Tonight
- **Charleston, SC – Late tonight**
- Myrtle Beach, SC – Early Saturday morning

Wind And Waves

Hurricane Ian



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Current Conditions

8am EDT Friday, Sept 30

Peak Winds: 75 kt

Peak Seas: 32 ft

■ Wave heights are in feet



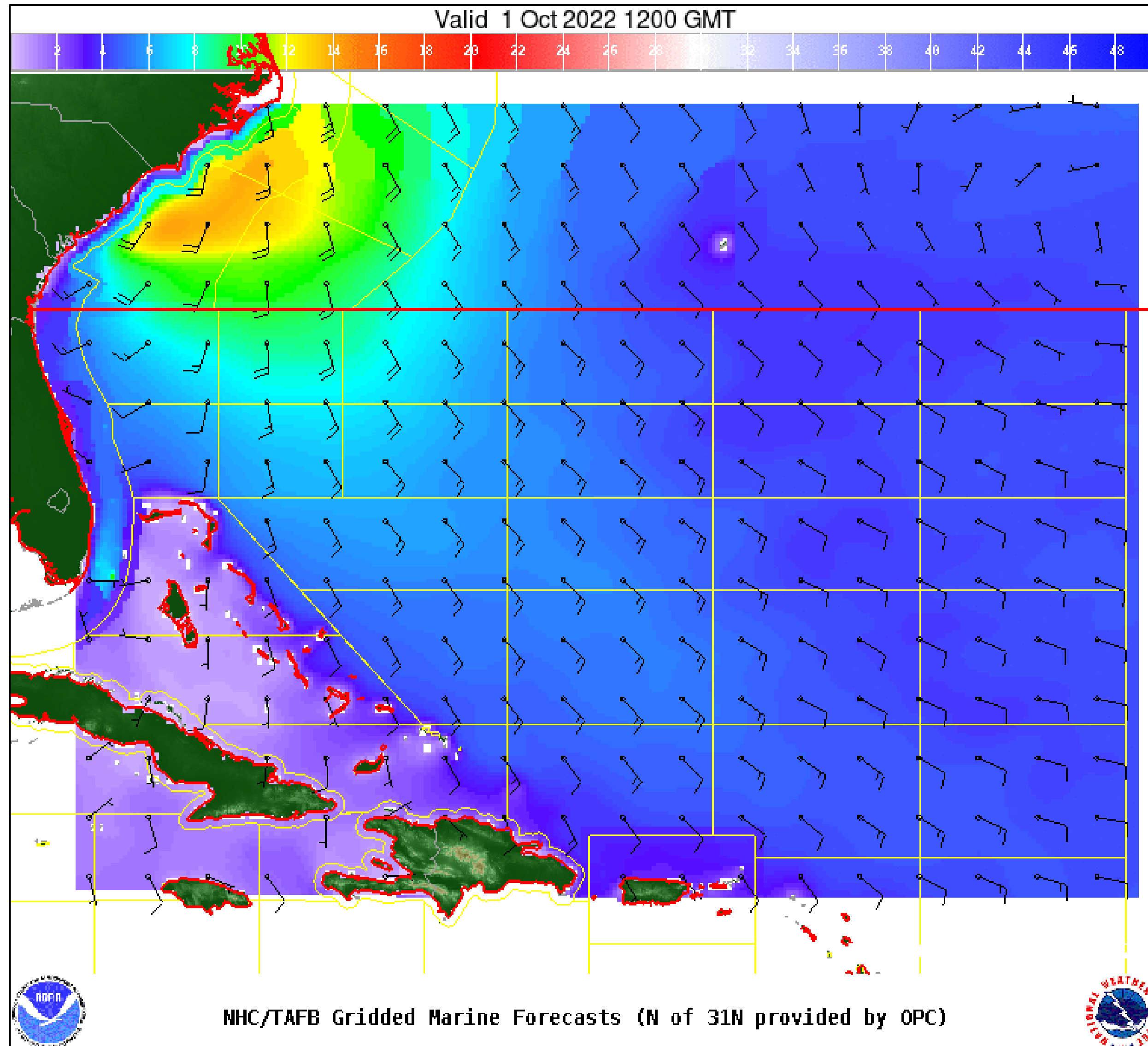
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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24 Hour Forecast

8am EDT Saturday, Oct 1

Peak Winds: 25 kt

Peak Seas: 12 ft

■ Wave heights are in feet



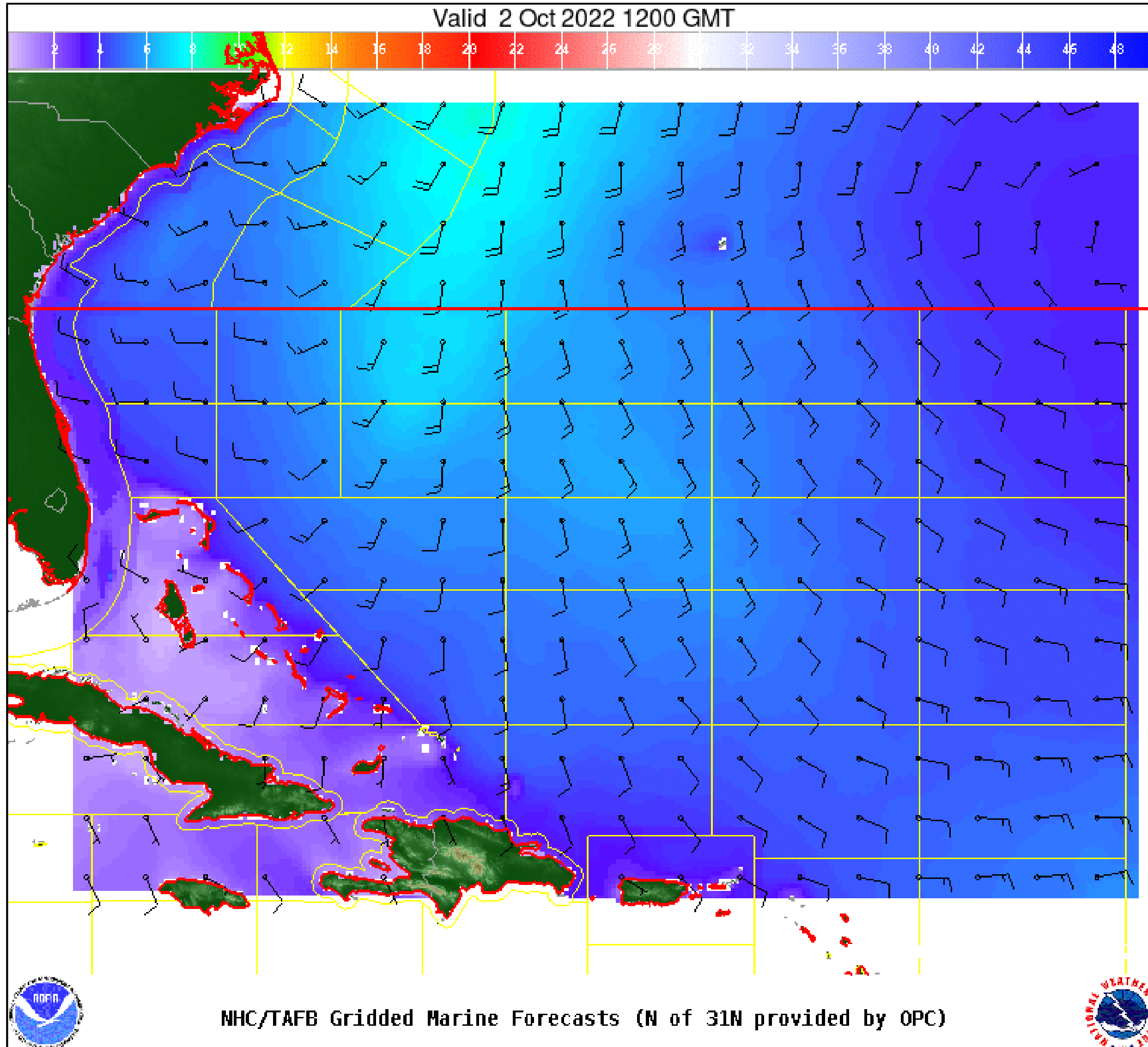
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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48 Hour Forecast

8am EDT Sunday, Oct 2

Peak Winds: 10 kt

Peak Seas: 6 ft

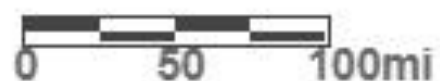
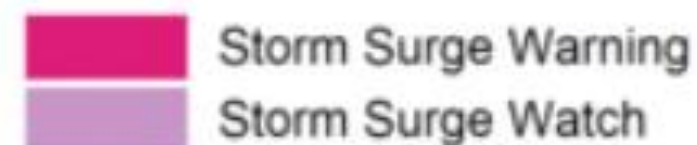
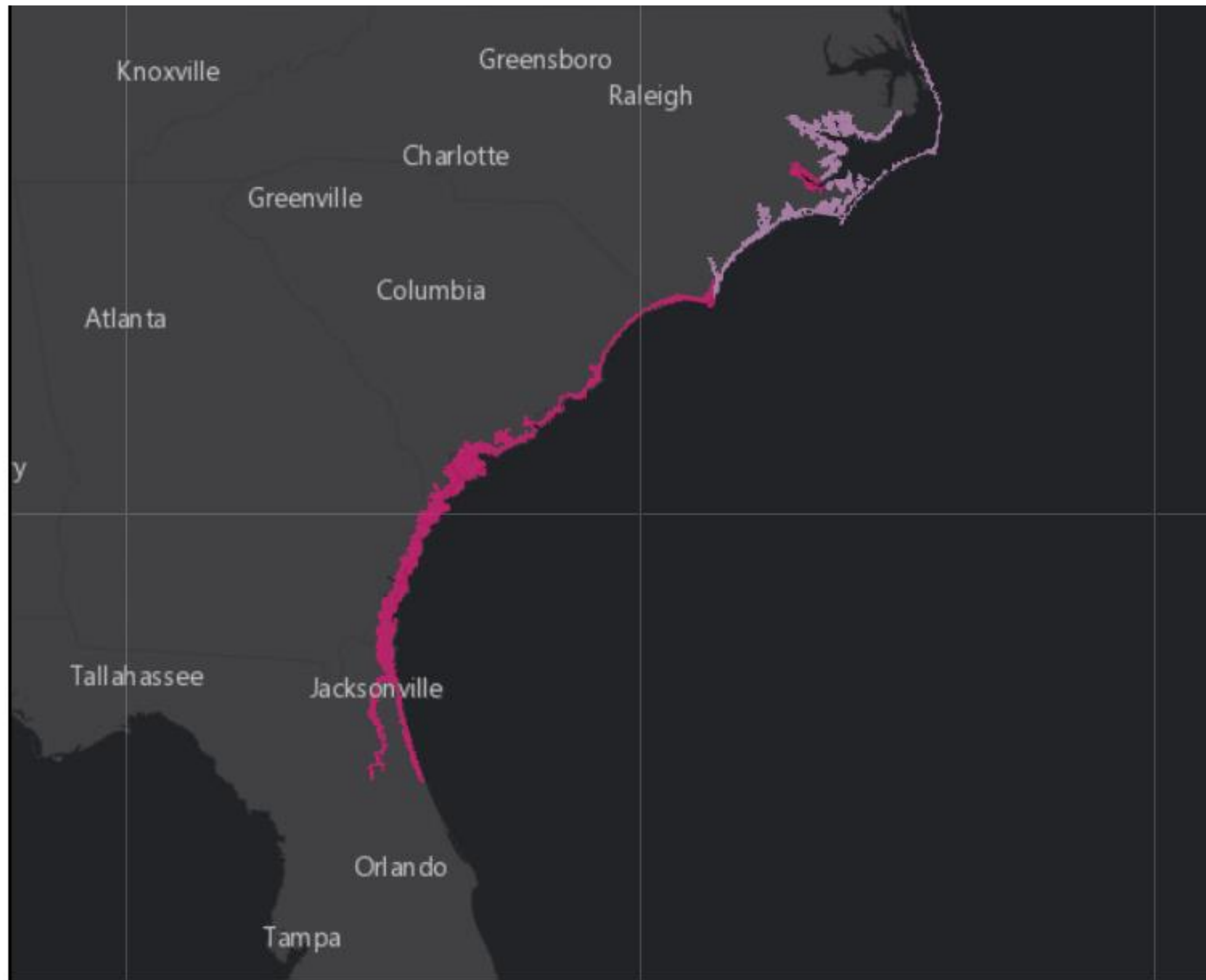
■ Wave heights are in feet



Significant Wave Height (ft)



Hurricane Ian



Storm Surge Warning

- Flagler/Volusia County Line Florida 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

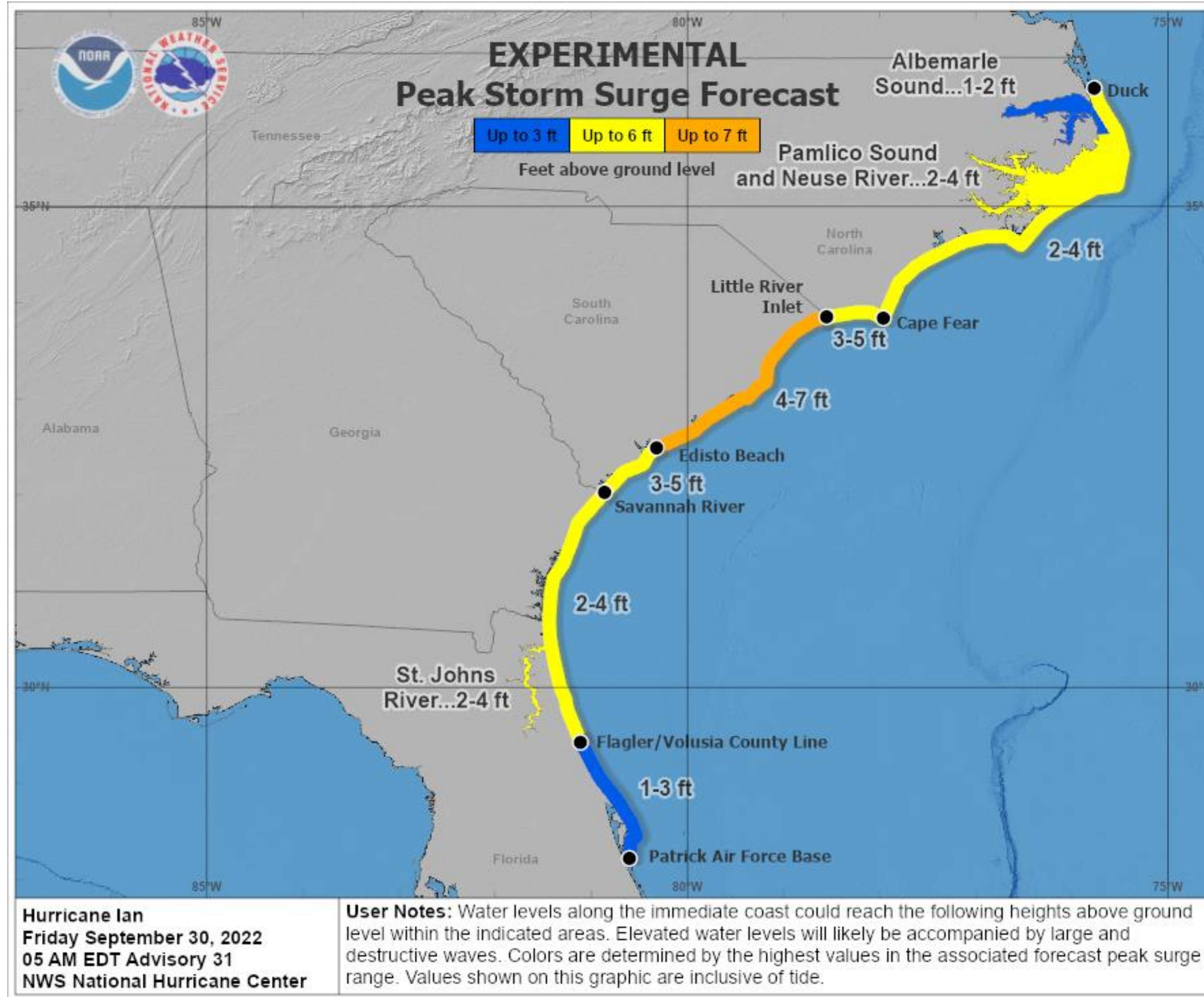
- Potential storm surge is represented in feet above the ground at any given point.

Potential Storm Surge

Hurricane Ian



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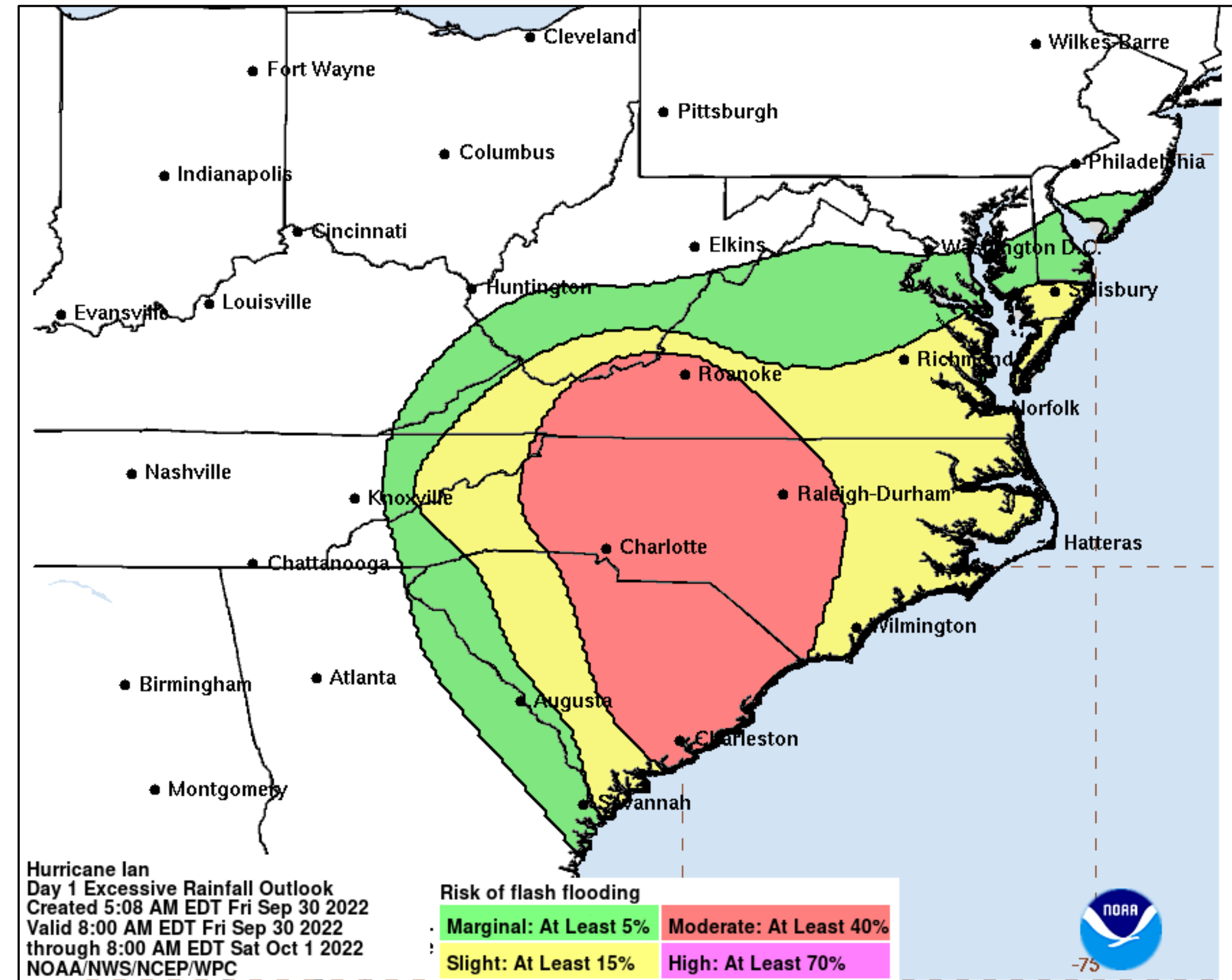
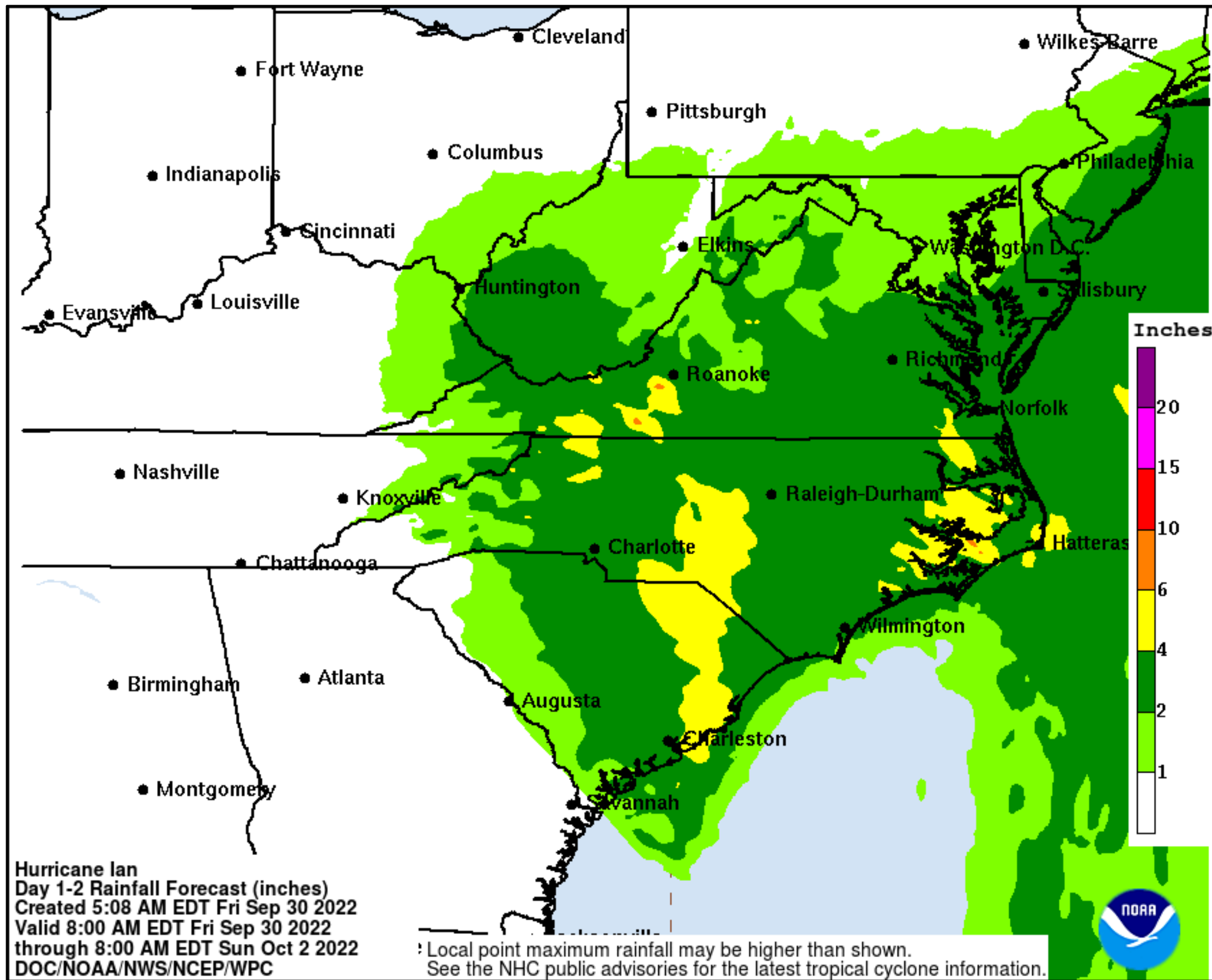
Expected Storm Total Rainfall and Chance of Rainfall Flooding



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NWS National Hurricane Center

Hurricane Ian

Images from NWS Weather Prediction Center



Valid through Sunday morning

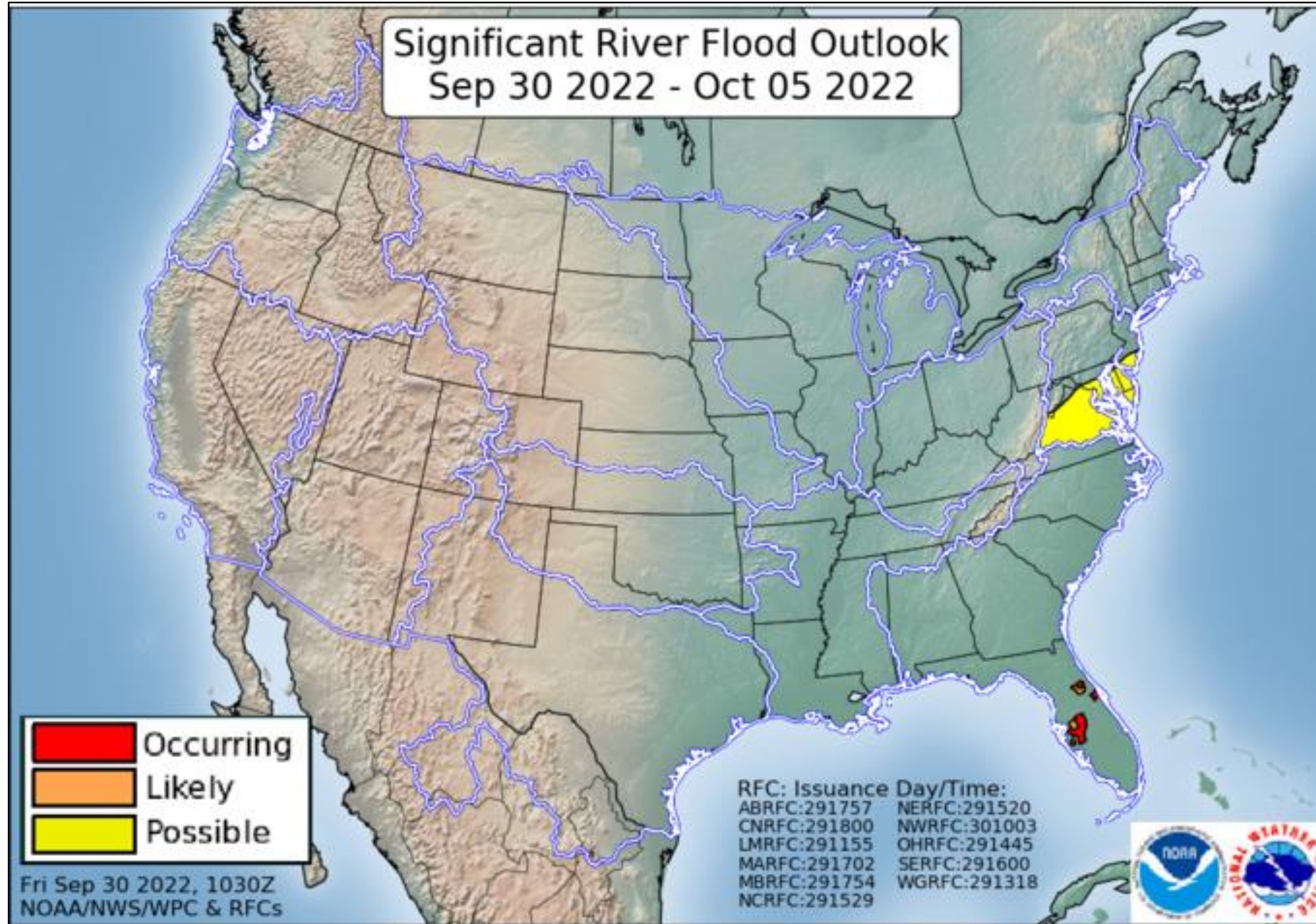
Valid through Saturday morning

Flood Outlook

Hurricane Ian



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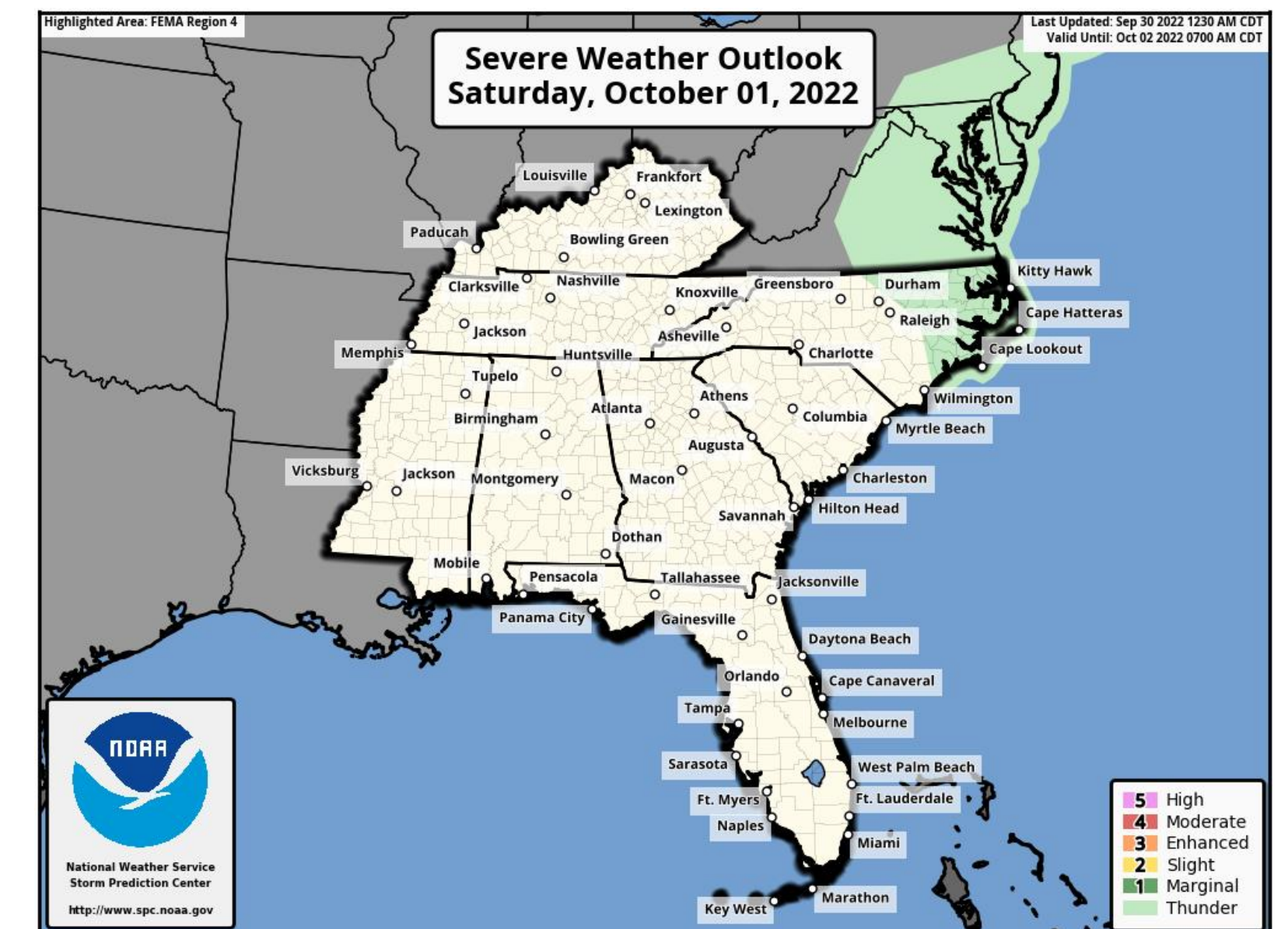
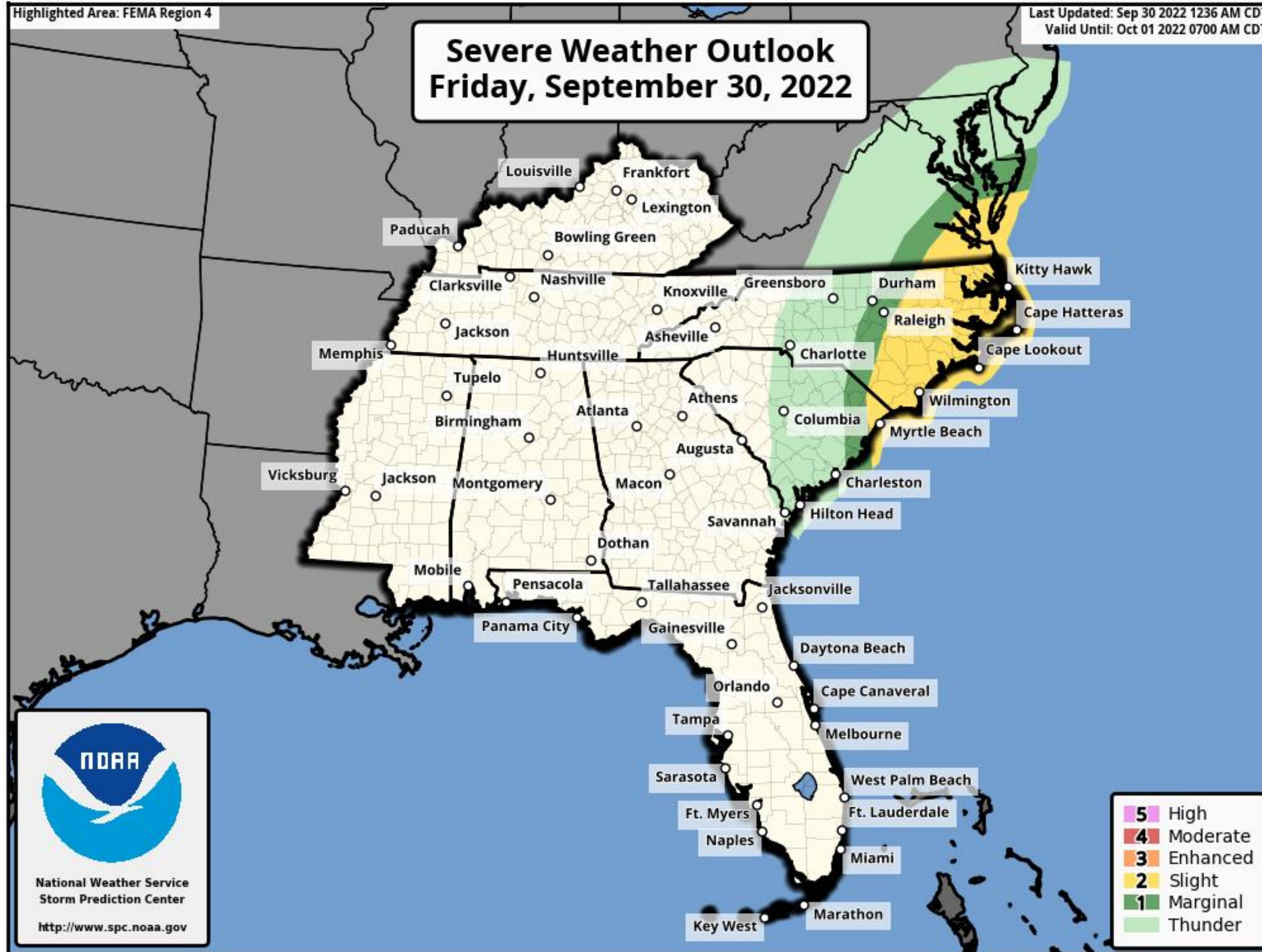
Tornado Outlook – Day 1 & 2

Hurricane Ian

Image from NWS Storm Prediction Center



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NWS National Hurricane Center



Key Messages

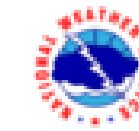
Hurricane Ian



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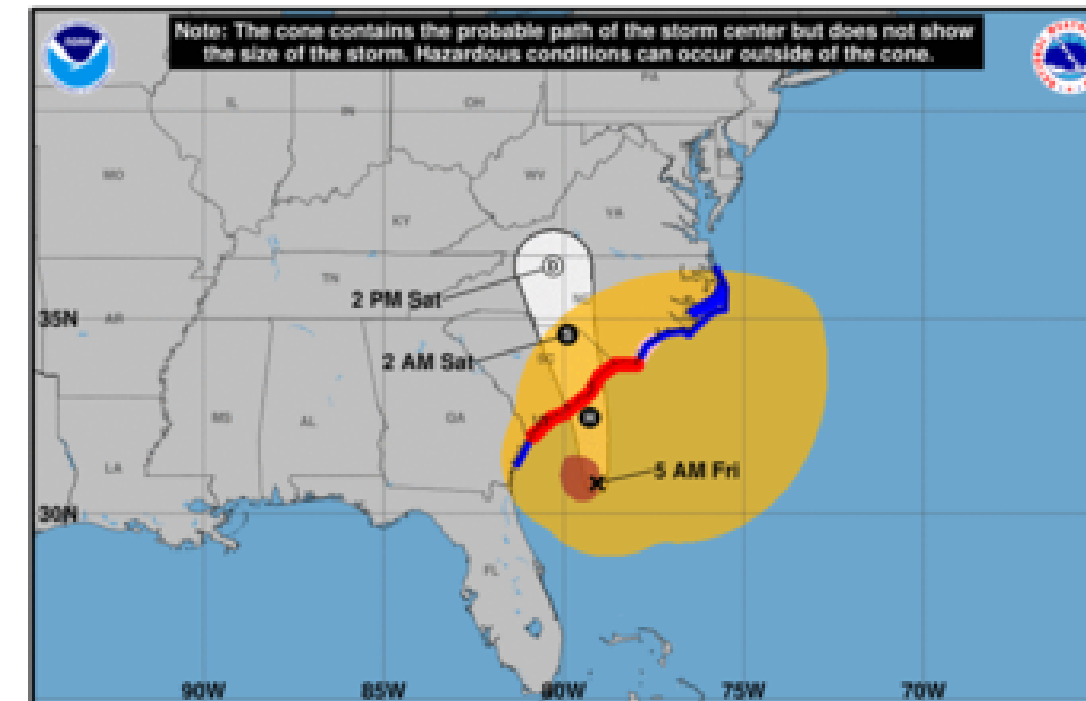
Key Messages for Hurricane Ian Advisory 31: 5:00 AM EDT Fri Sep 30, 2022



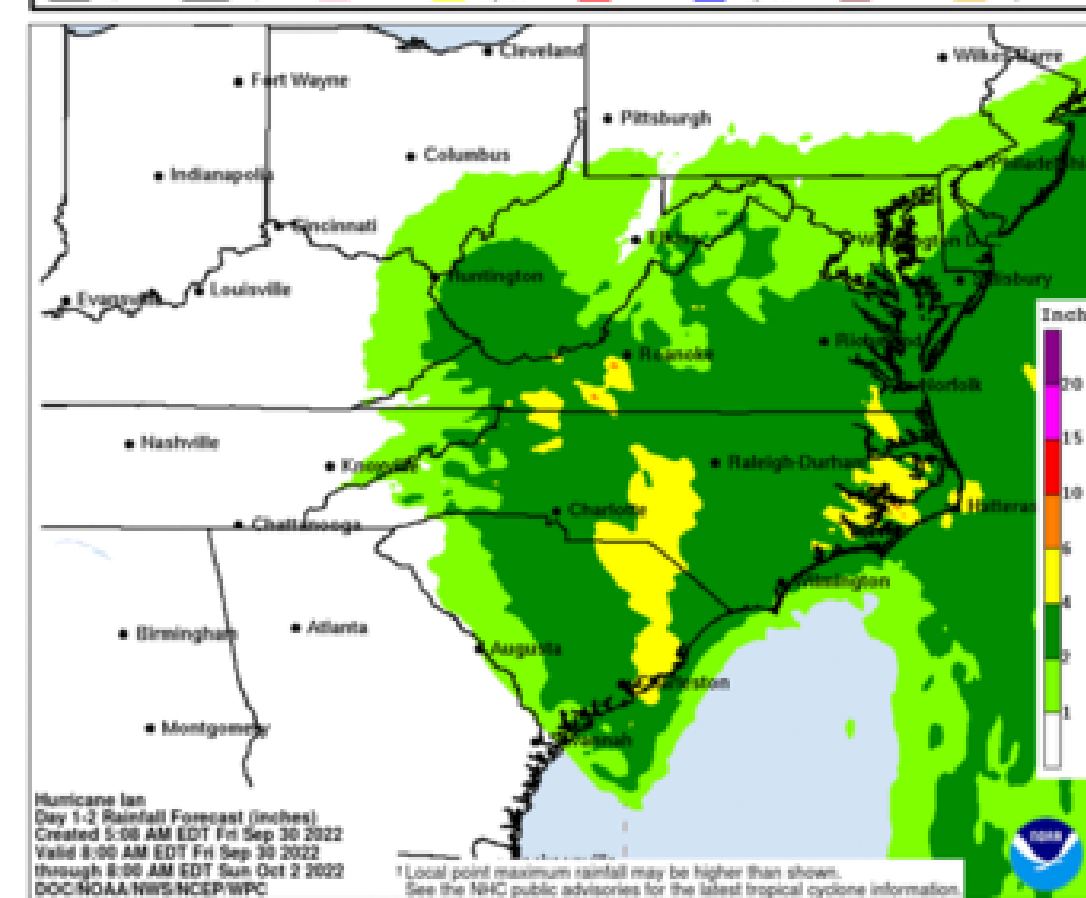
1. There is a danger of life-threatening storm surge today along the coasts of northeast Florida, Georgia, and the Carolinas within the Storm Surge Warning areas. Residents in these areas should follow any advice given by local officials.

2. Hurricane-force winds are expected along the coasts of South Carolina and southeastern North Carolina within the Hurricane Warning area by this afternoon. 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 through today across portions of coastal and northeast South Carolina. Locally considerable flooding is possible across portions of North Carolina and southern Virginia through today.



Hurricane Ian Friday September 30, 2022 5 AM EDT Advisory 31 NWS National Hurricane Center	Current information: x Center location 30.8 N 79.1 W Maximum sustained wind 85 mph Movement NNE at 9 mph	Forecast positions: ● Tropical Cyclone ○ Post-Potential TC Sustained winds: D < 39 mph S 39-73 mph H 74-110 mph M > 110 mph
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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 begin to subside this afternoon as Ian makes landfall
- Seas will drop below 20 ft late tonight
- Seas are expected to drop below 12 ft by Sat morning and completely subside by Sat night



HURRICANE IAN BRIEFING

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

*The Next Briefing Will Be:
Friday 4:00 PM EDT*

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



NHC_TAFB

www.nhc.noaa.gov