

IMPACTS FOR D7 (through next 5 days)

Winds – Medium to High

Storm Surge – Medium

Rainfall/Flash Flooding – High

Tornadoes – Low

Waves - Extreme

TROPICAL STORM IAN BRIEFING

9:00 AM EDT

Thursday, September 29, 2022

Prepared by:

Amanda Reinhart

Tropical Analysis and Forecast Branch

NWS National Hurricane Center

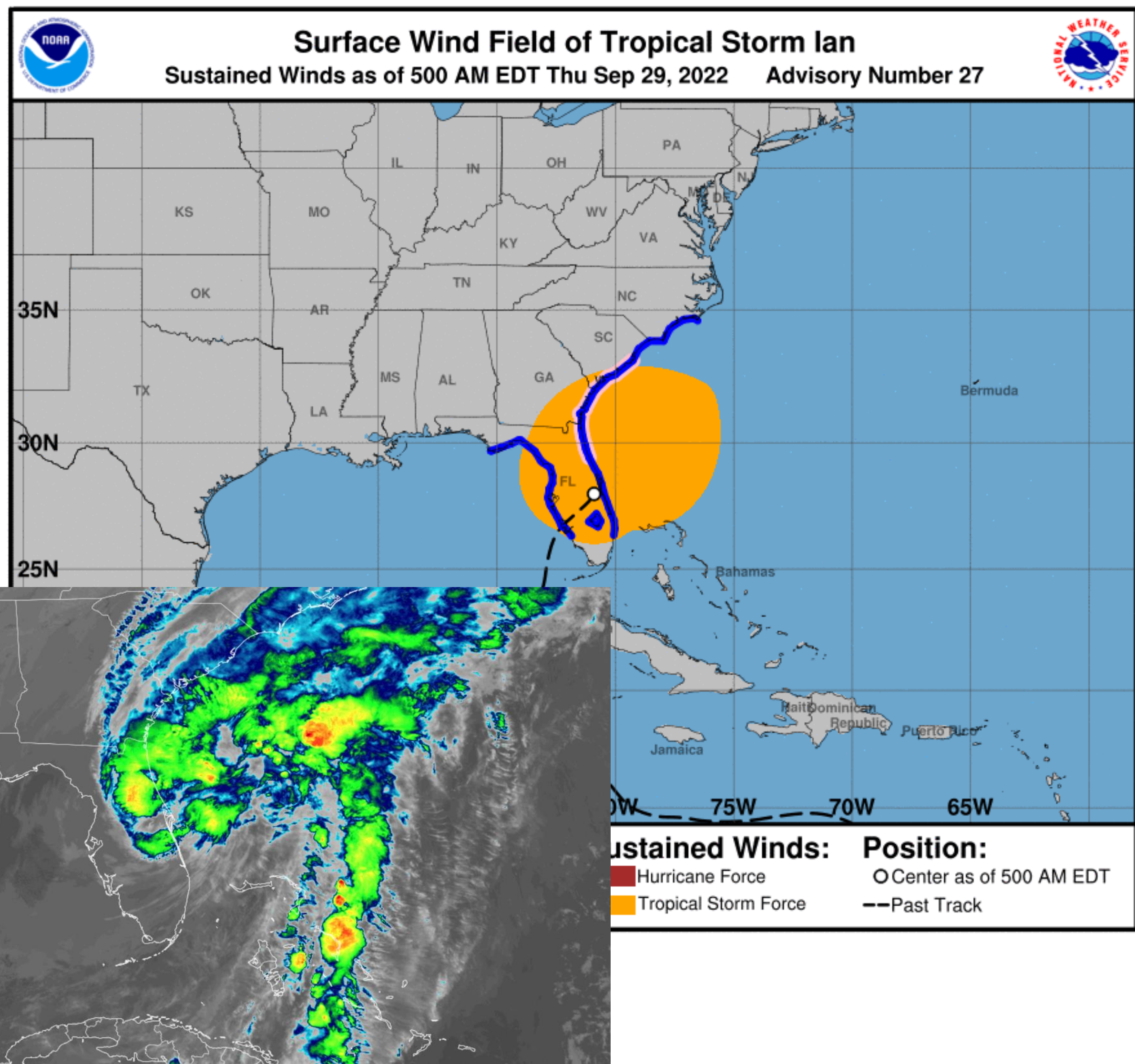


Situation Overview

Tropical Storm Ian



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...IAN PRODUCING CATASTROPHIC FLOODING OVER EAST-CENTRAL FLORIDA...

...FORECAST TO PRODUCE LIFE-THREATENING FLOODING, STORM SURGE AND GUSTY WINDS ACROSS PORTIONS OF FLORIDA, GEORGIA, AND THE CAROLINAS...

Summary of 800 AM EDT Information

Location...28.0N 80.9W
 About 35 nm E of Orlando, Florida
 About 10 nm W of Cape Canaveral, Florida
 Maximum sustained winds...55 kt
 Present Movement...NE at 7 kt
 Minimum Central Pressure...987 mb
 Peak Seas...20 FT

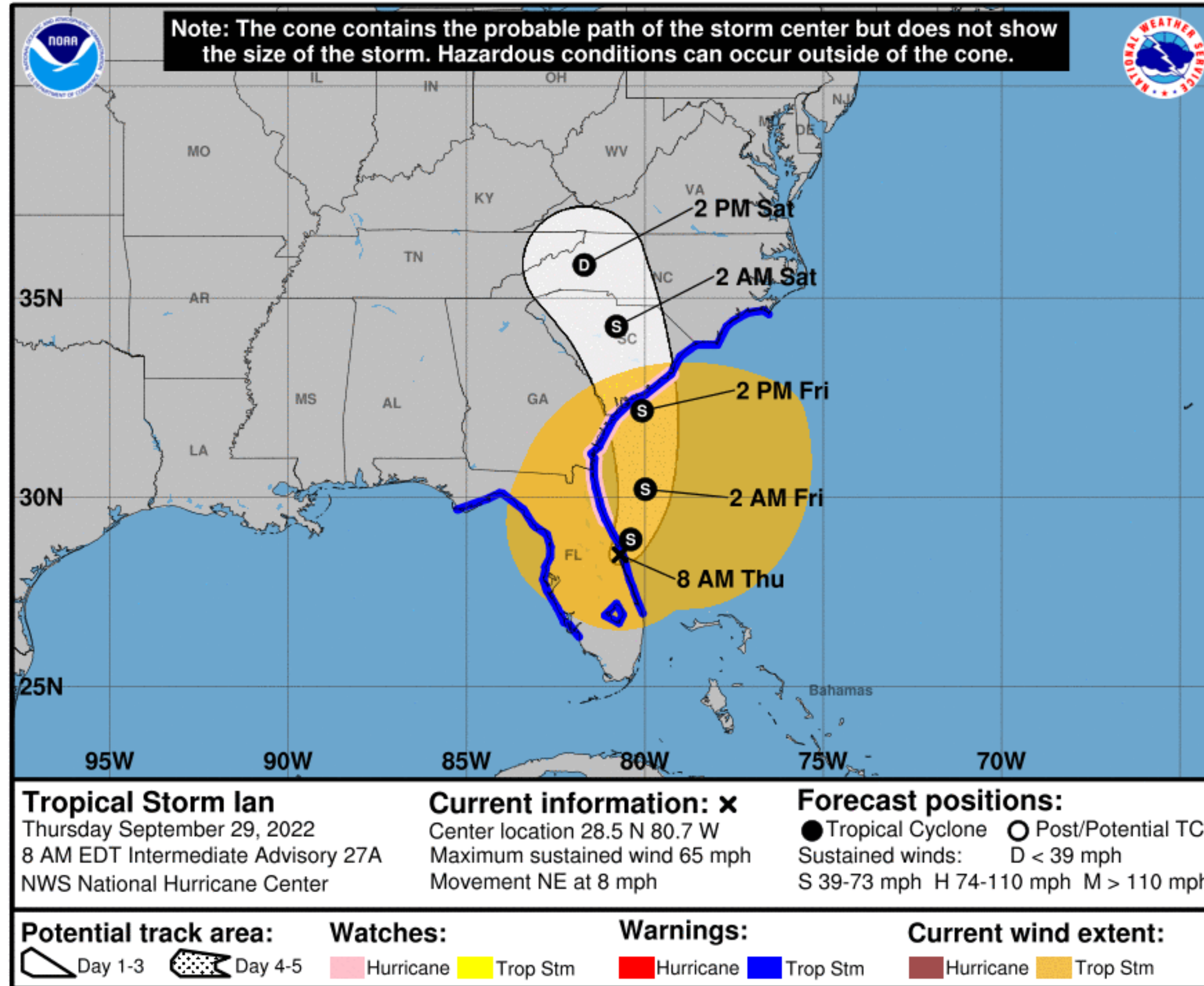
Size:
 50 KT..... 60NE 50SE 40SW 70NW.
 34 KT.....360NE 120SE 120SW 200NW.
 12 ft Seas...270NE 60SE 360SW 210NW.

Forecast Information

Tropical Storm Ian



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

- Ian is expected to move off the coast of Florida this afternoon and swing N towards the South Carolina coast
- Favorable conditions along with warm waters over the Gulf Stream is expected to slightly strengthen Ian near hurricane strength
- The second U.S. landfall of Ian will be somewhere along the GA/SC coast
- 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

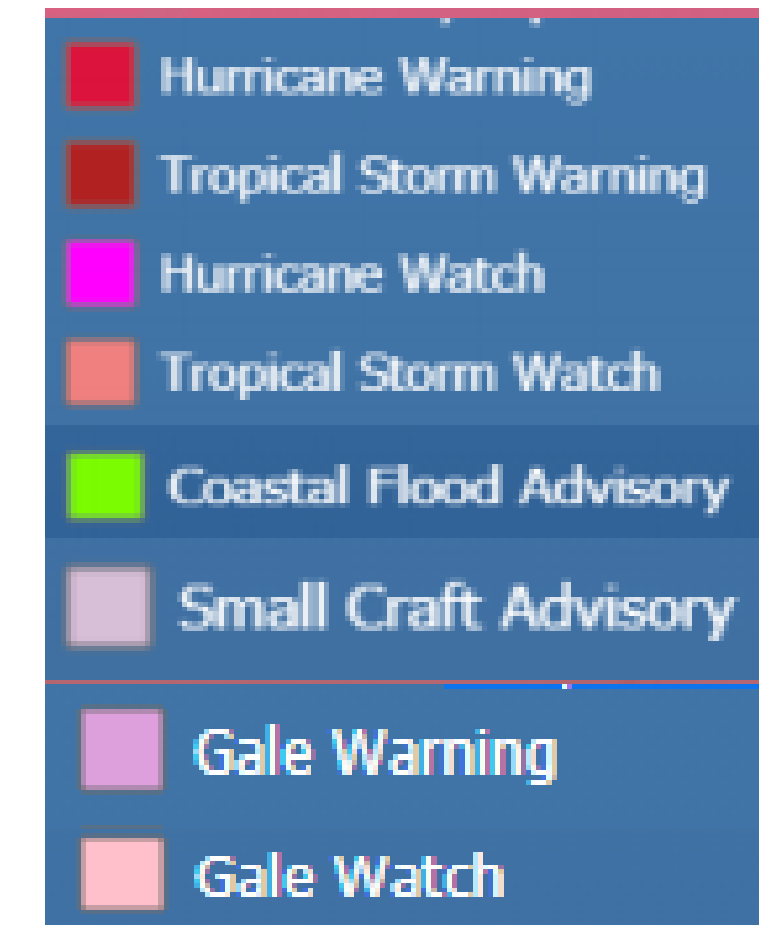
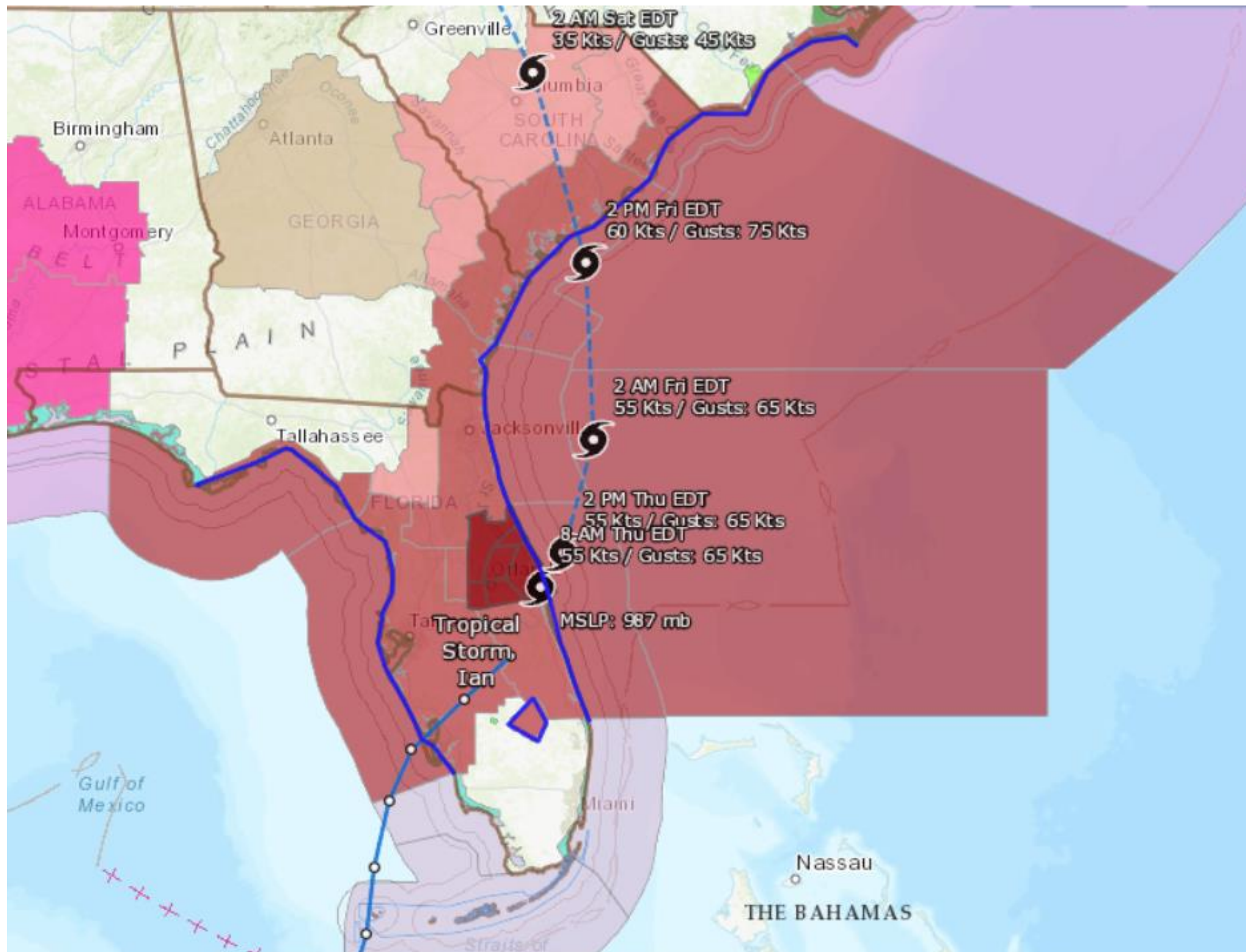
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Ian



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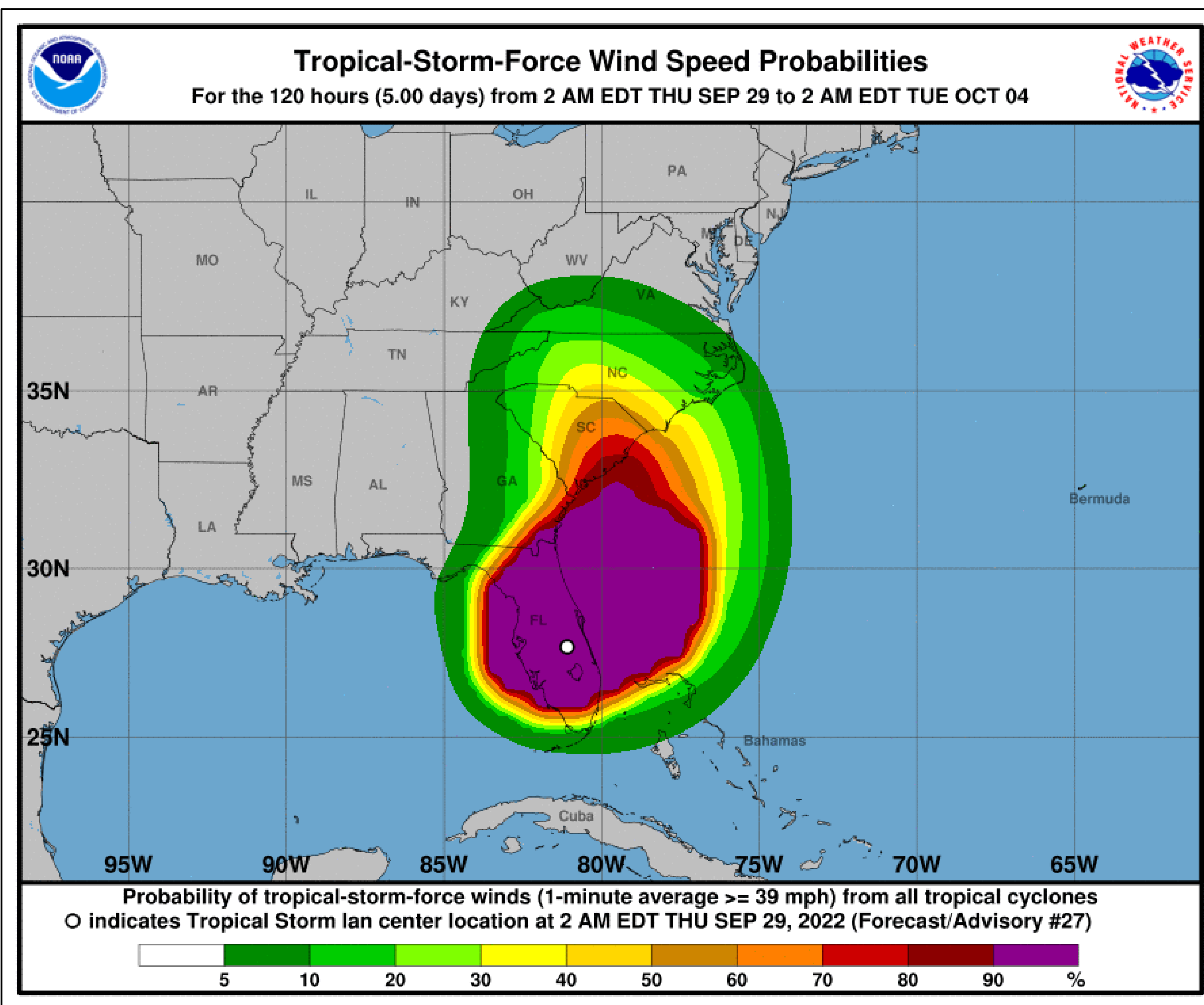


T.S. Wind Speed Probabilities

Tropical Storm Ian



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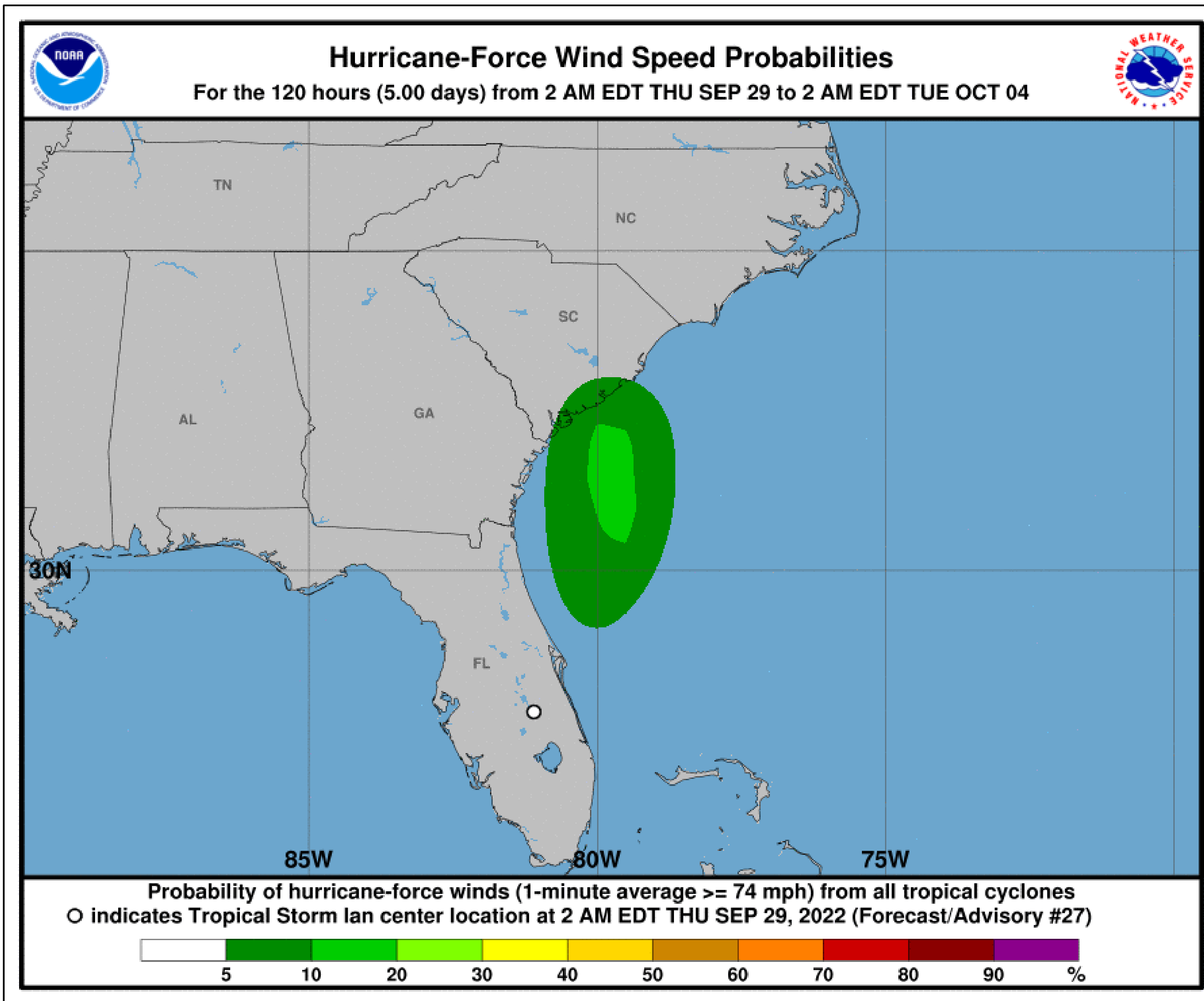
- **FLORENCE – 60%**
 - **MYRTLE BEACH – 70%**
 - **GEORGETOWN – 80%**
 - **CHARLESTON - 85%**
 - **BEAUFORT - 80%**
 - **SAVANNAH – 60%**
 - **KINGS BAY - 100%**
 - **MAYPORT – 100%**
 - **JACKSONVILLE – 100%**
 - **DAYTONA BEACH - 100%**
 - **COCOA BEACH – 100%**
 - NAPLES FL - 100%
 - FT MYERS FL - 100%
 - VENICE FL - 100%
 - TAMPA FL - 100%
 - CEDAR KEY – 75%
 - PATRICK AFB - 100%
 - FT PIERCE – 100%
 - W PALM BEACH – 100%
 - FT. LAUDERDALE – 20%
 - MIAMI FL - 10%
 - HOMESTEAD ARB – 5%
 - MARATHON FL - 5%
- 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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Tropical Storm Ian



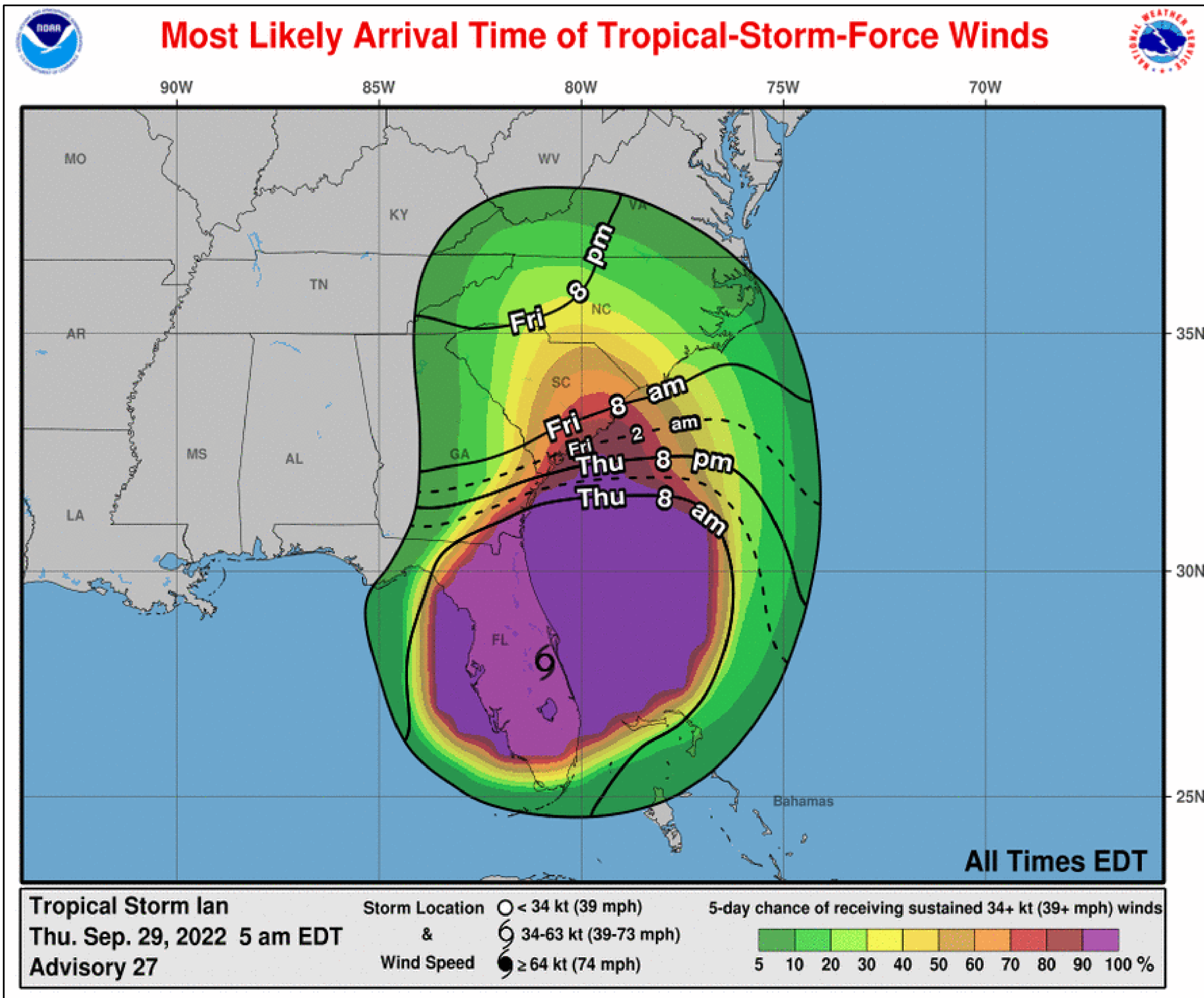
- **COCOA BEACH – 5%**
- **PATRICK AFB - 5%**

- **CHARLESTON SC – 5%**
- **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.



Tropical Storm Ian



- **Georgia coast – Thursday morning**
- **South Carolina coast – Thursday night**
- 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

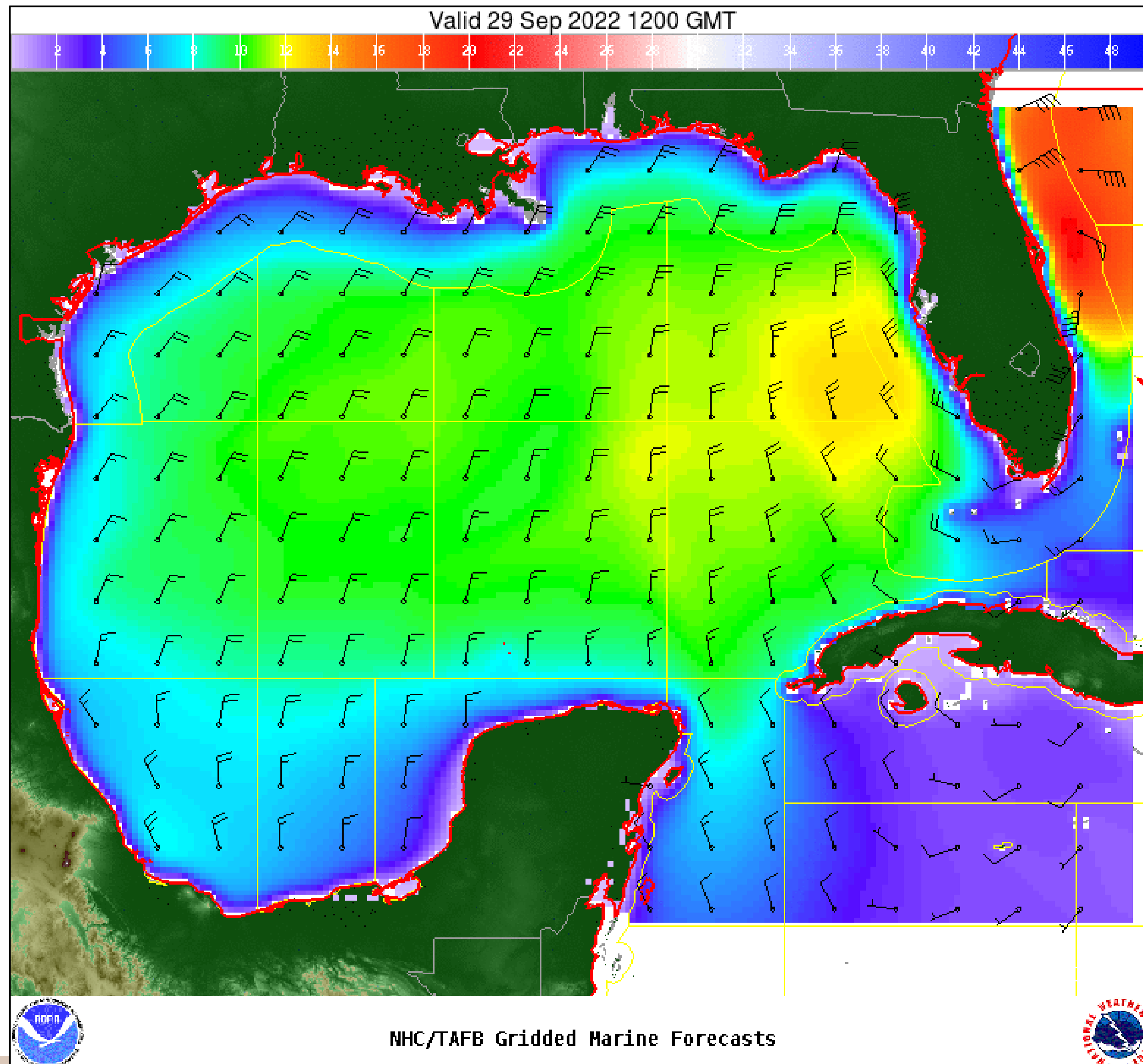
- **NAPLES FL – Ended**
- **FT MYERS FL – Ended**

- **VENICE FL - Ending now**
- **TAMPA FL - This morning**
- **CEDAR KEY – This morning**
- **COCOA BEACH – This afternoon**
- **DAYTONA BEACH – This evening**
- **JACKSONVILLE – Late tonight**

LATEST REASONABLE

- **VENICE FL - This afternoon**
- **TAMPA FL - This afternoon**
- **CEDAR KEY – Late tonight**
- **COCOA BEACH - Tonight**
- **DAYTONA BEACH – Late tonight**
- **JACKSONVILLE – Friday afternoon**

Times locally when sustained winds diminish below tropical storm force (34+ kt)



Current Conditions

8am EDT, Thursday, Sept 29

Peak Winds: 35 kt

Peak Seas: 13 ft

■ Wave heights are in feet

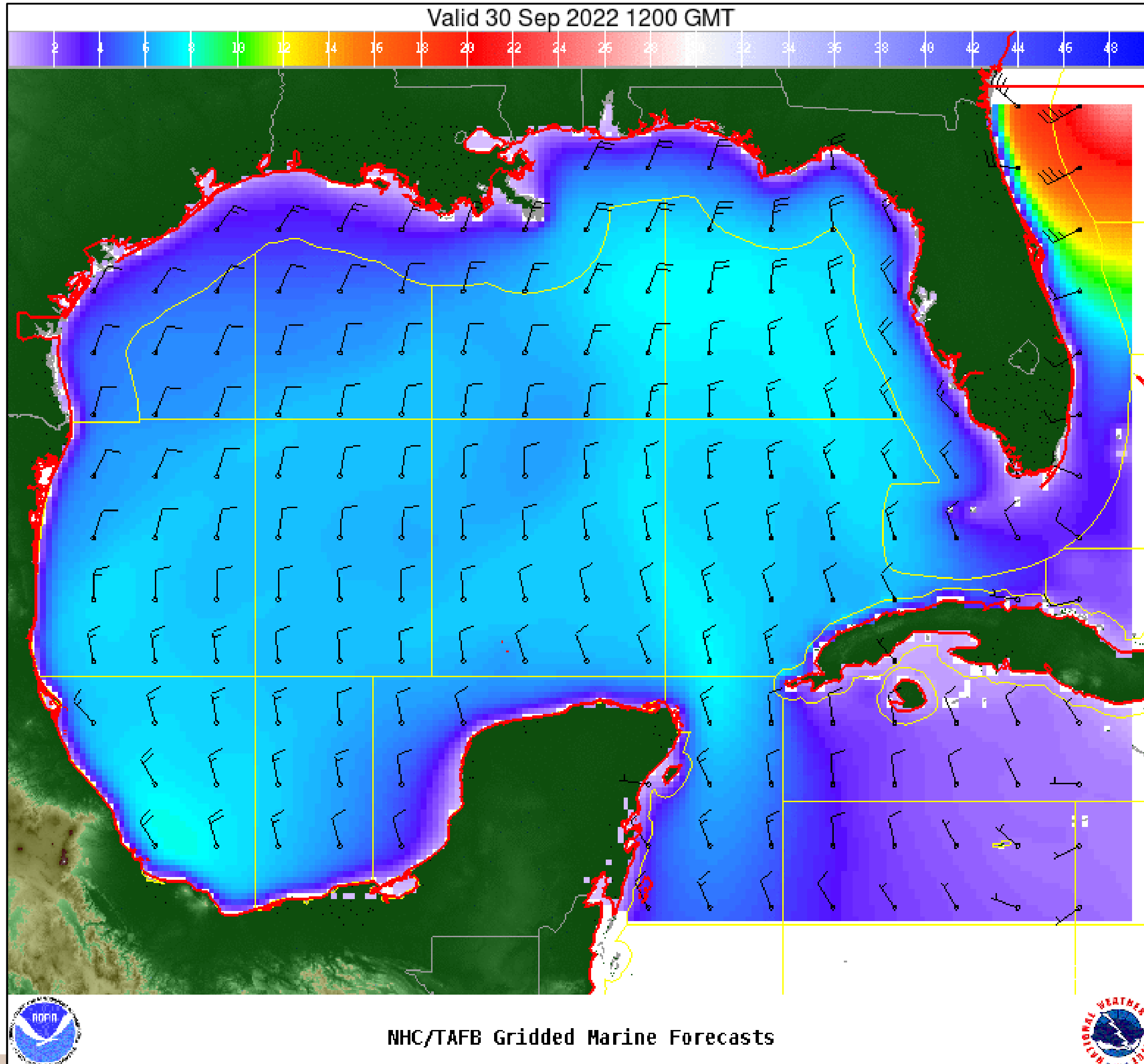


Significant Wave Height (ft)

Wind And Waves



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24 Hour Forecast
8am EDT, Friday, Sept 30
Peak Winds: 25 kt
Peak Seas: 8 ft

■ Wave heights are in feet



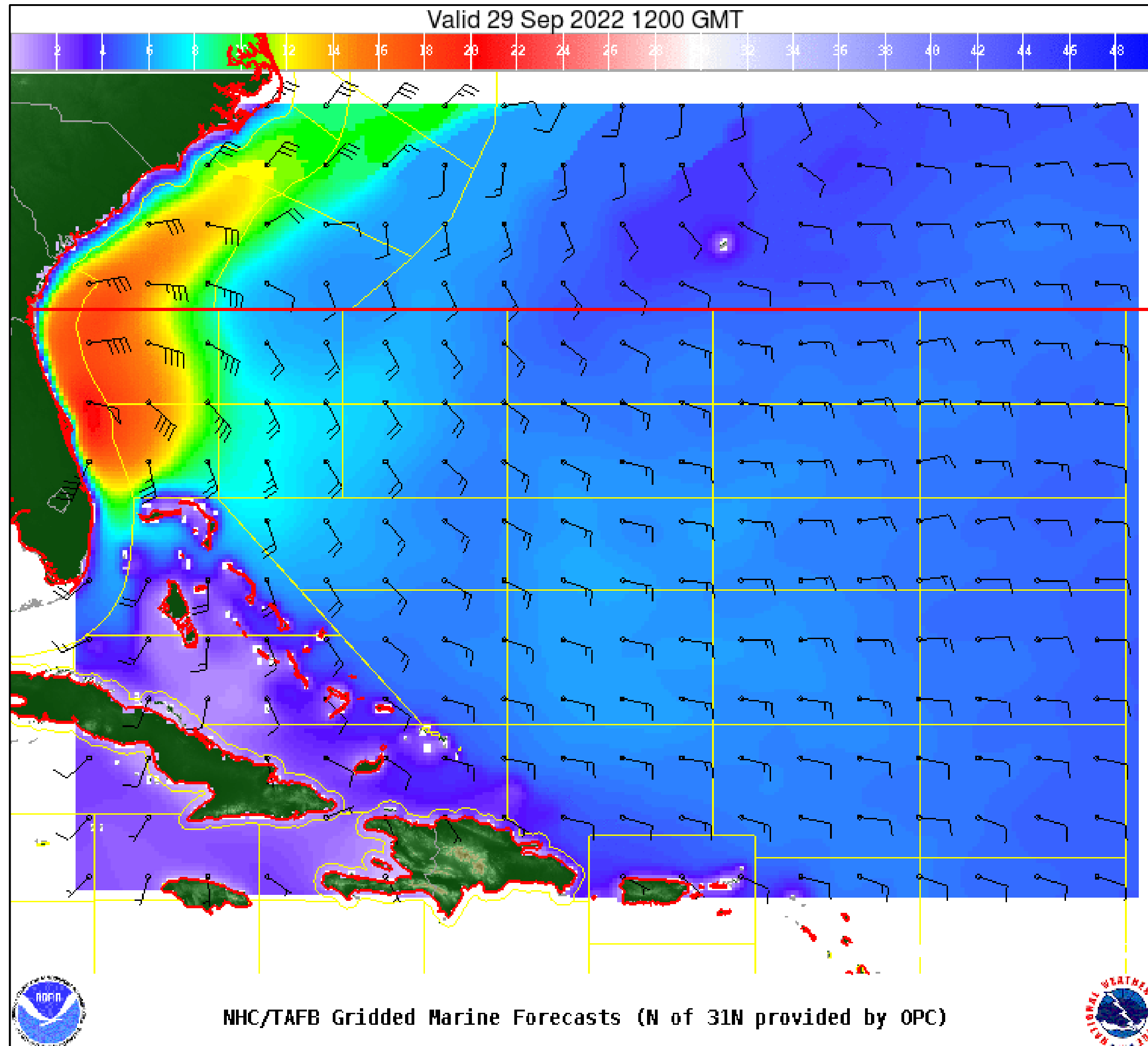
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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Current Conditions

8am EDT, Thursday, Sept 29

Peak Winds: 55 kt

Peak Seas: 20 ft

■ Wave heights are in feet



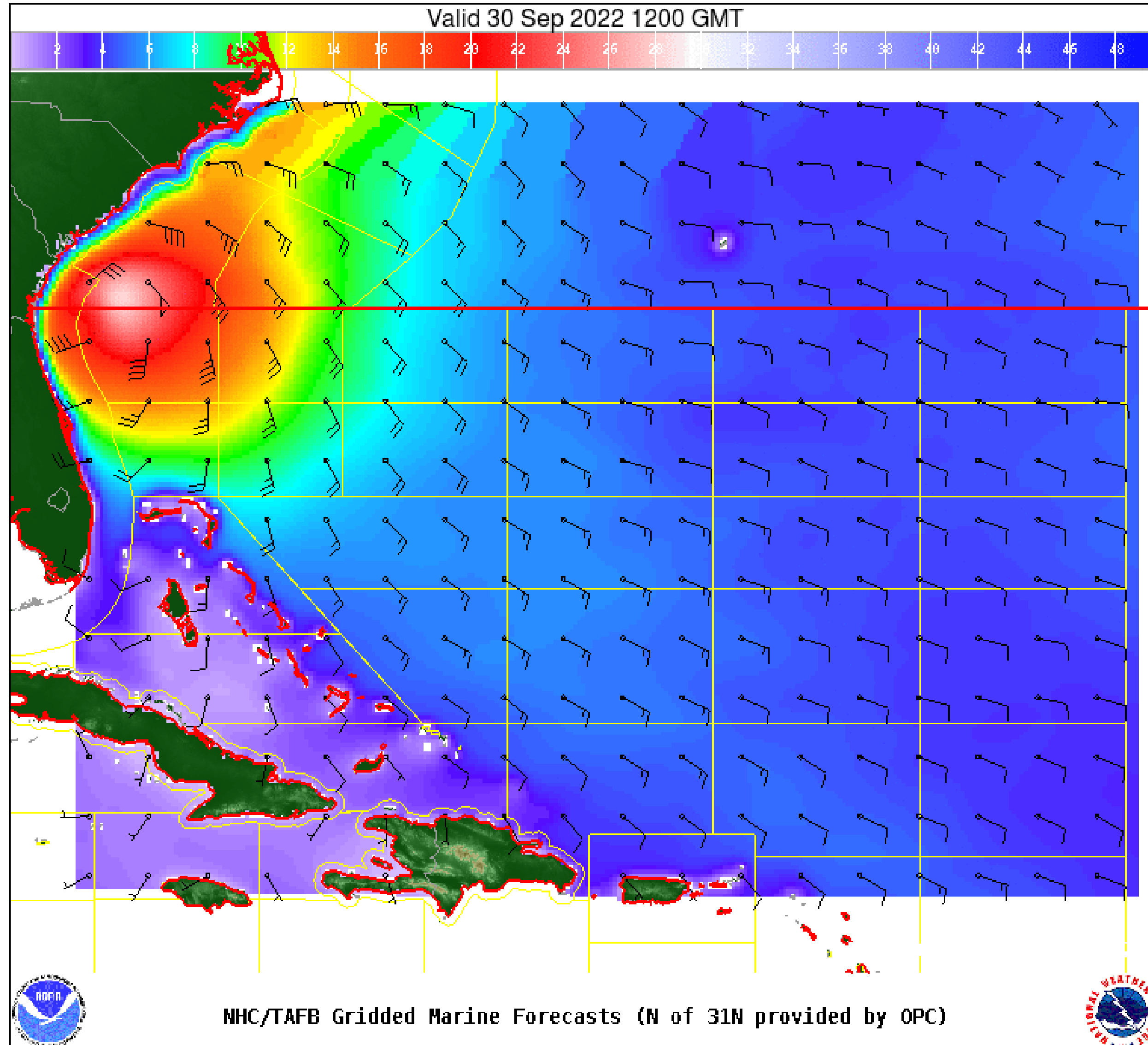
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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24 Hour Forecast

8am EDT, Friday, Sept 30

Peak Winds: 55 kt

Peak Seas: 30 ft

■ Wave heights are in feet



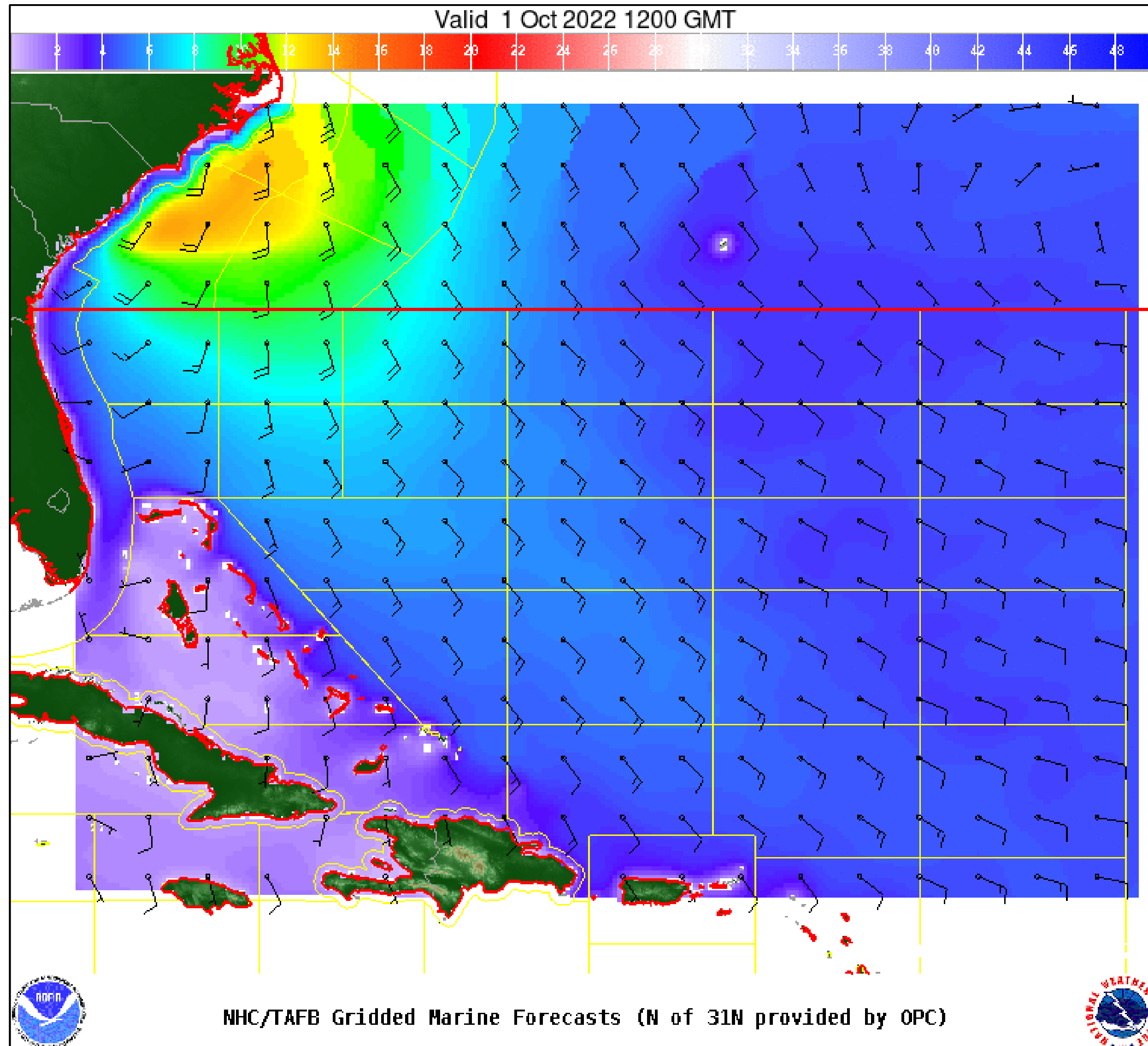
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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48 Hour Forecast
8am EDT, Saturday, Oct 1
Peak Winds: 25 kt
Peak Seas: 10 ft

■ Wave heights are in feet



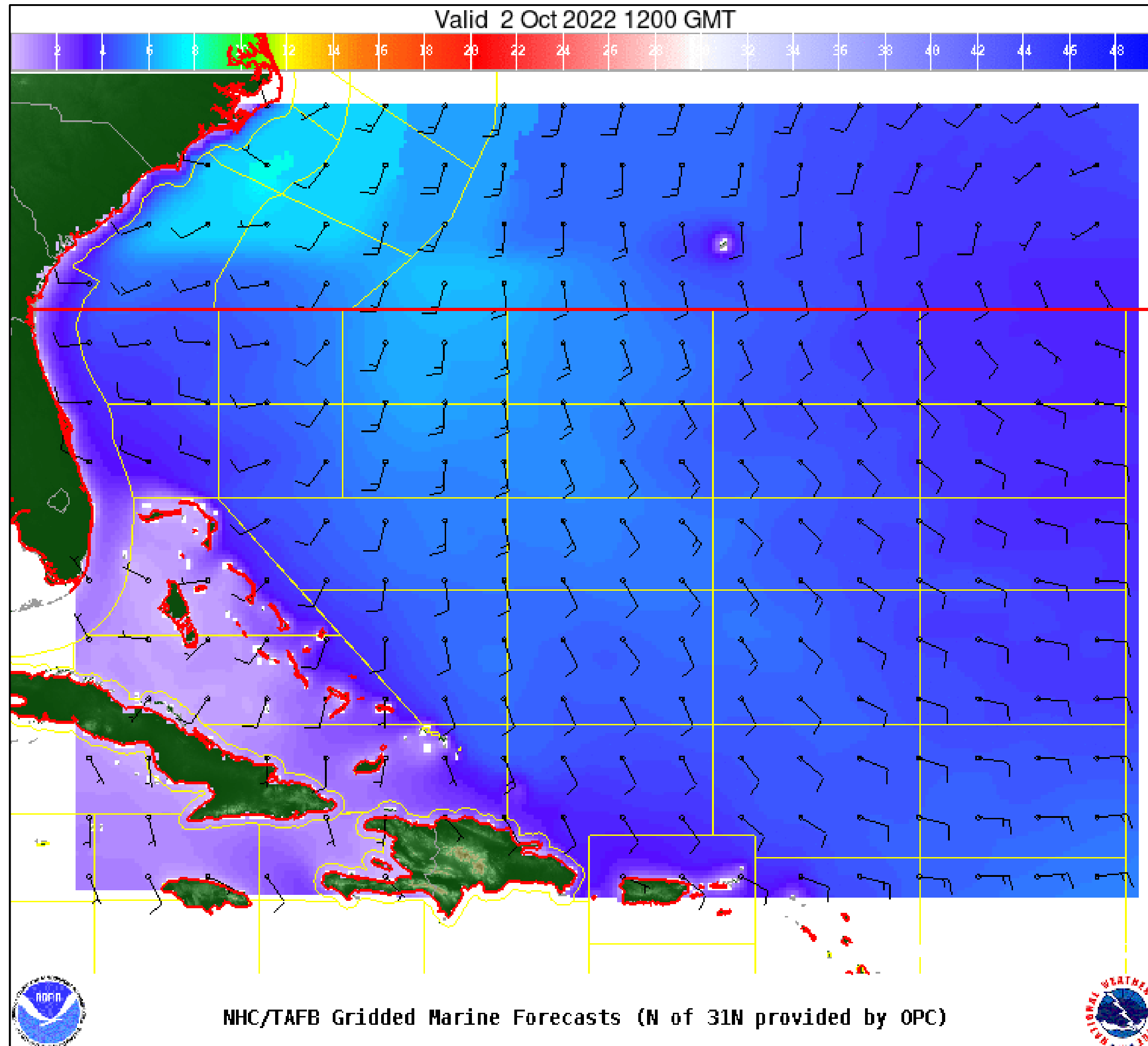
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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72 Hour Forecast

8am EDT, Sunday, Oct 2

Peak Winds: 10 kt

Peak Seas: 5 ft

■ Wave heights are in feet



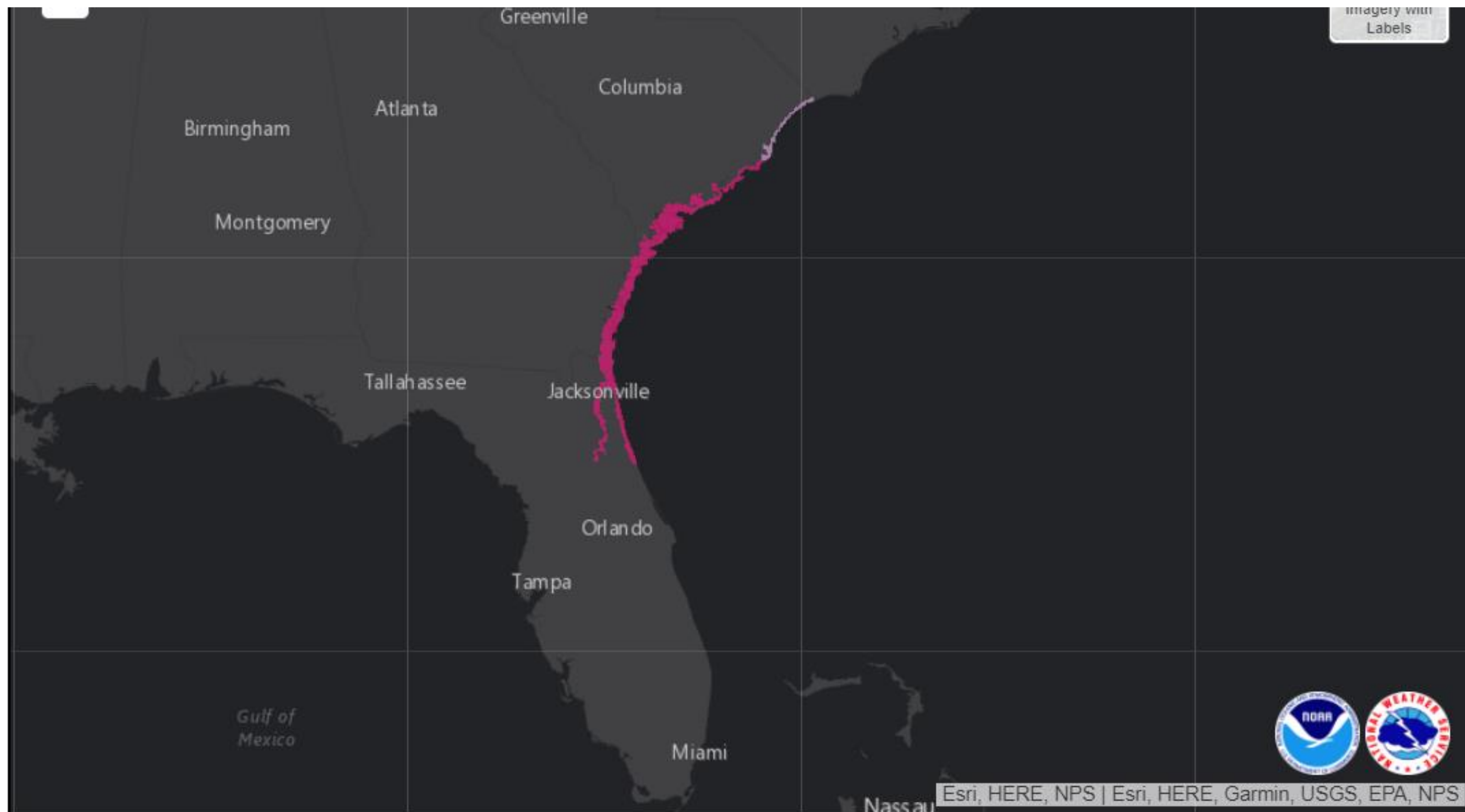
Significant Wave Height (ft)



Potential Peak Storm Surge / Watches and Warnings



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Ian



 Storm Surge Warning
 Storm Surge Watch

Storm Surge Warning

- Flagler/Volusia Line to the mouth of the South Santee River
- St. Johns River

Storm Surge Watch

- North of South Santee River to Little River Inlet

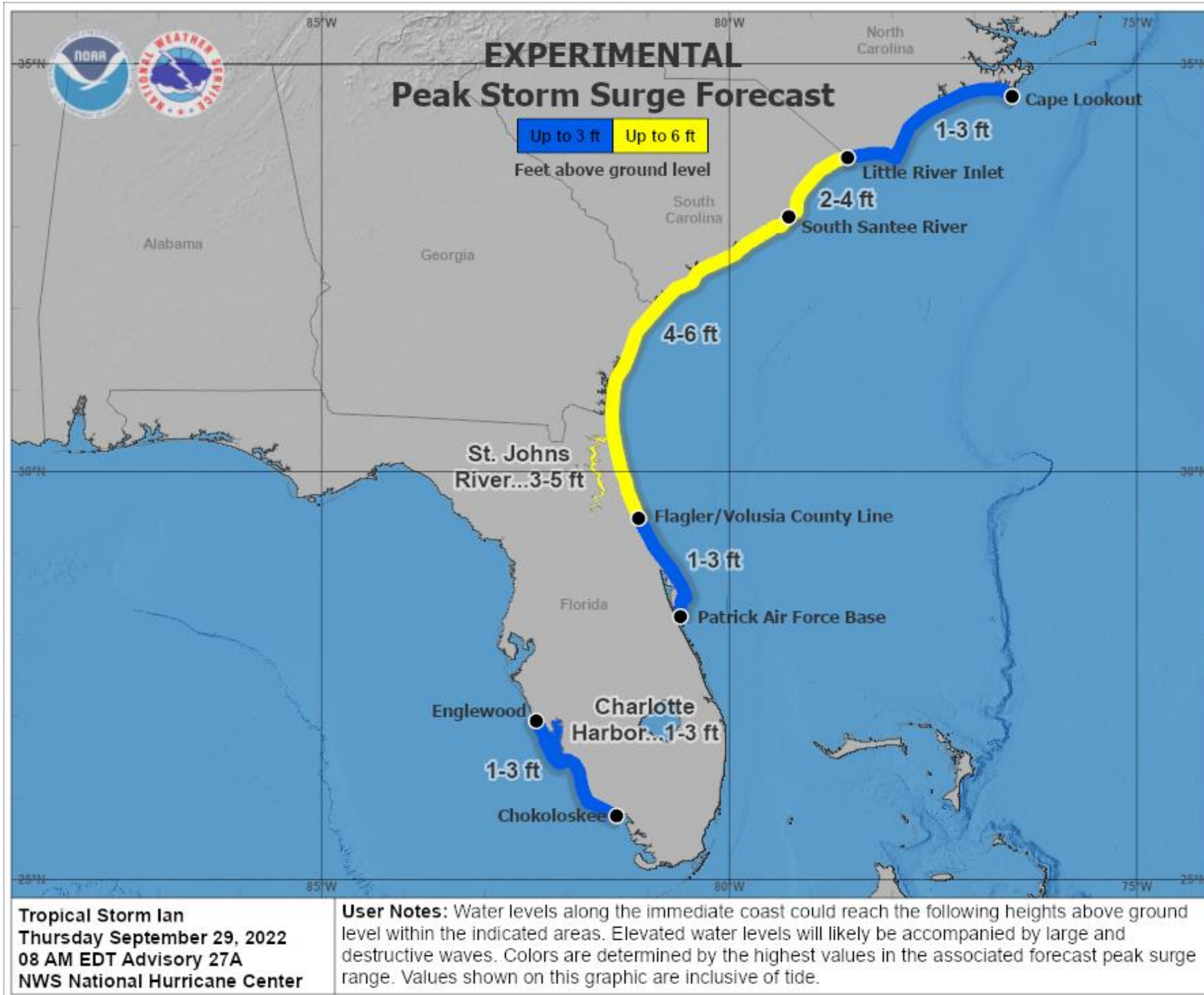
- Potential storm surge is represented in feet above the ground at any given point.

Potential Peak Storm Surge

Tropical Storm Ian



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- Potential storm surge is represented in feet above the ground at any given point.
- The values shown represent the peak storm surge at the immediate coast line.

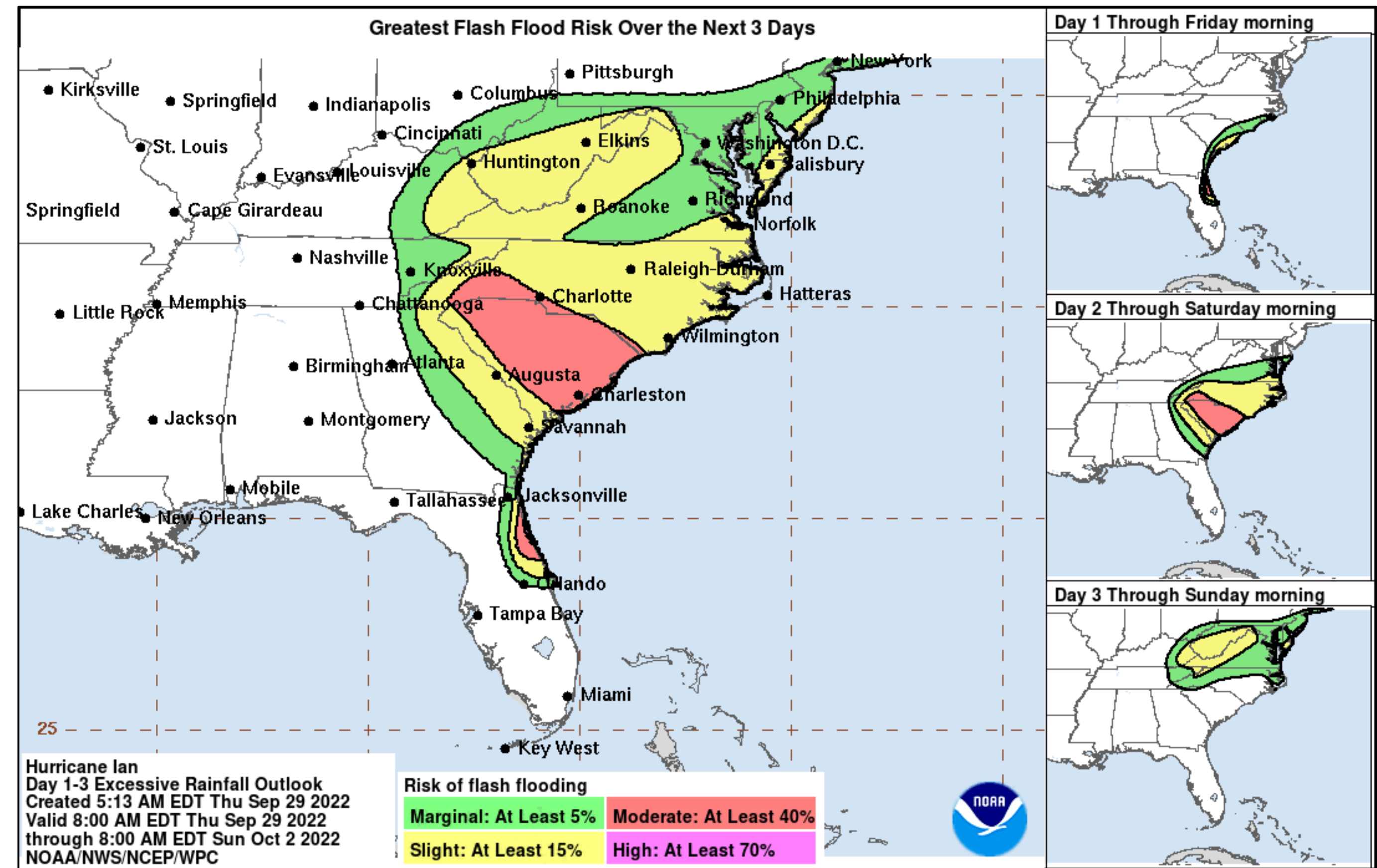
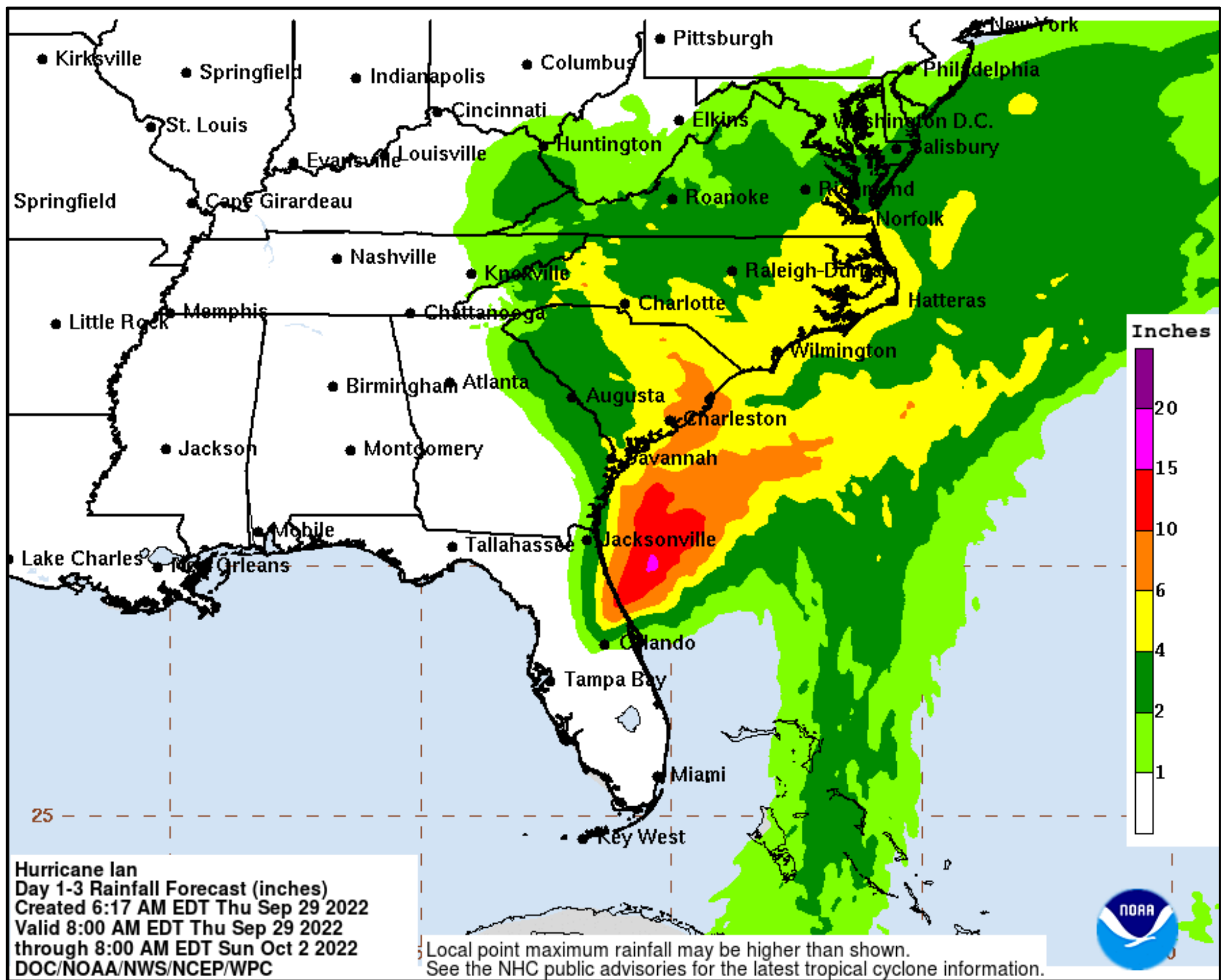
Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Ian

Images from NWS Weather Prediction Center



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

HIGH: > 50% **SLGHT: 10%-20%**
MDT: 20%-50% **MRGL: 5%-10%**

Refer to map legend for Valid Time

Valid through Sunday morning

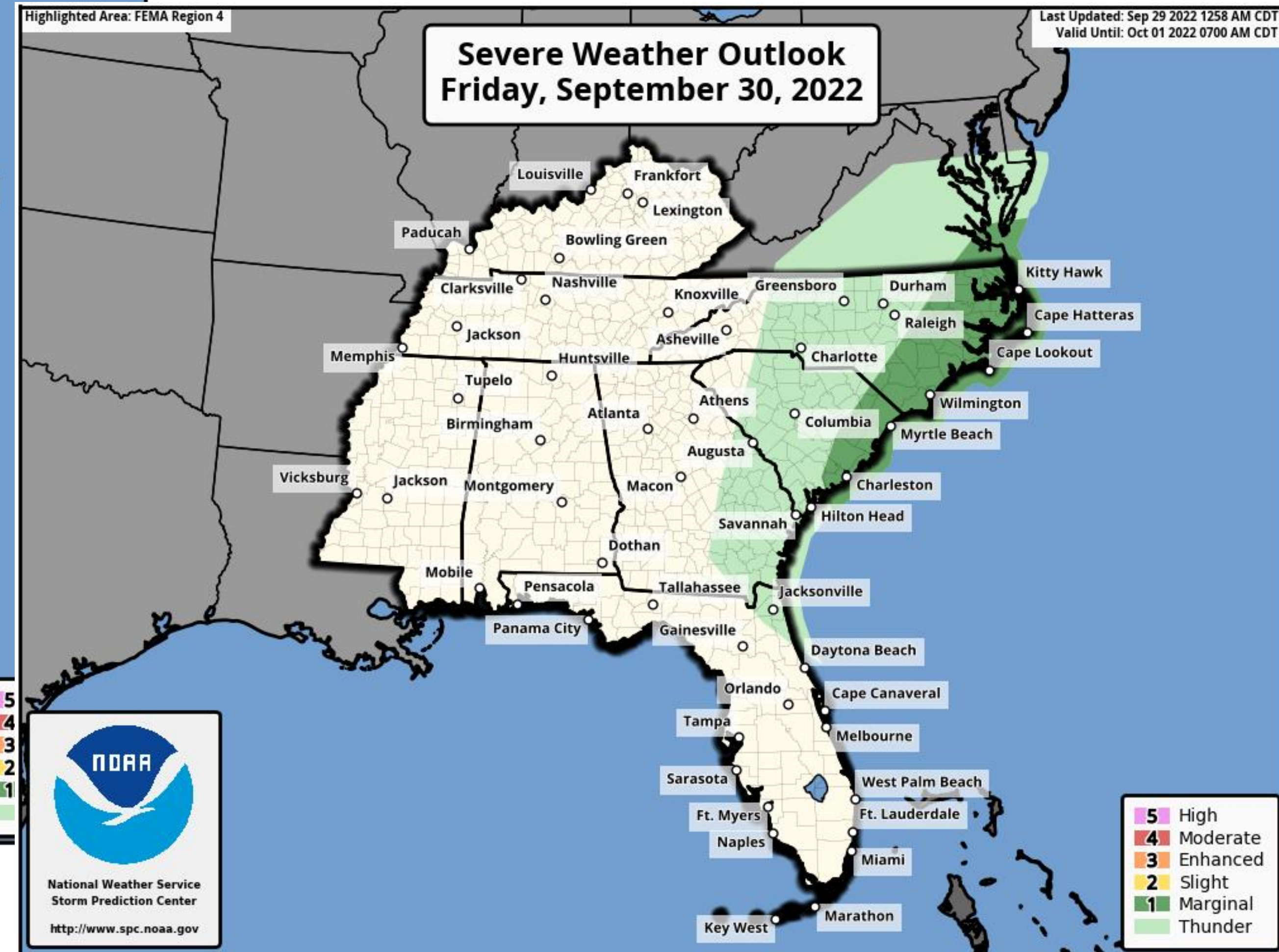
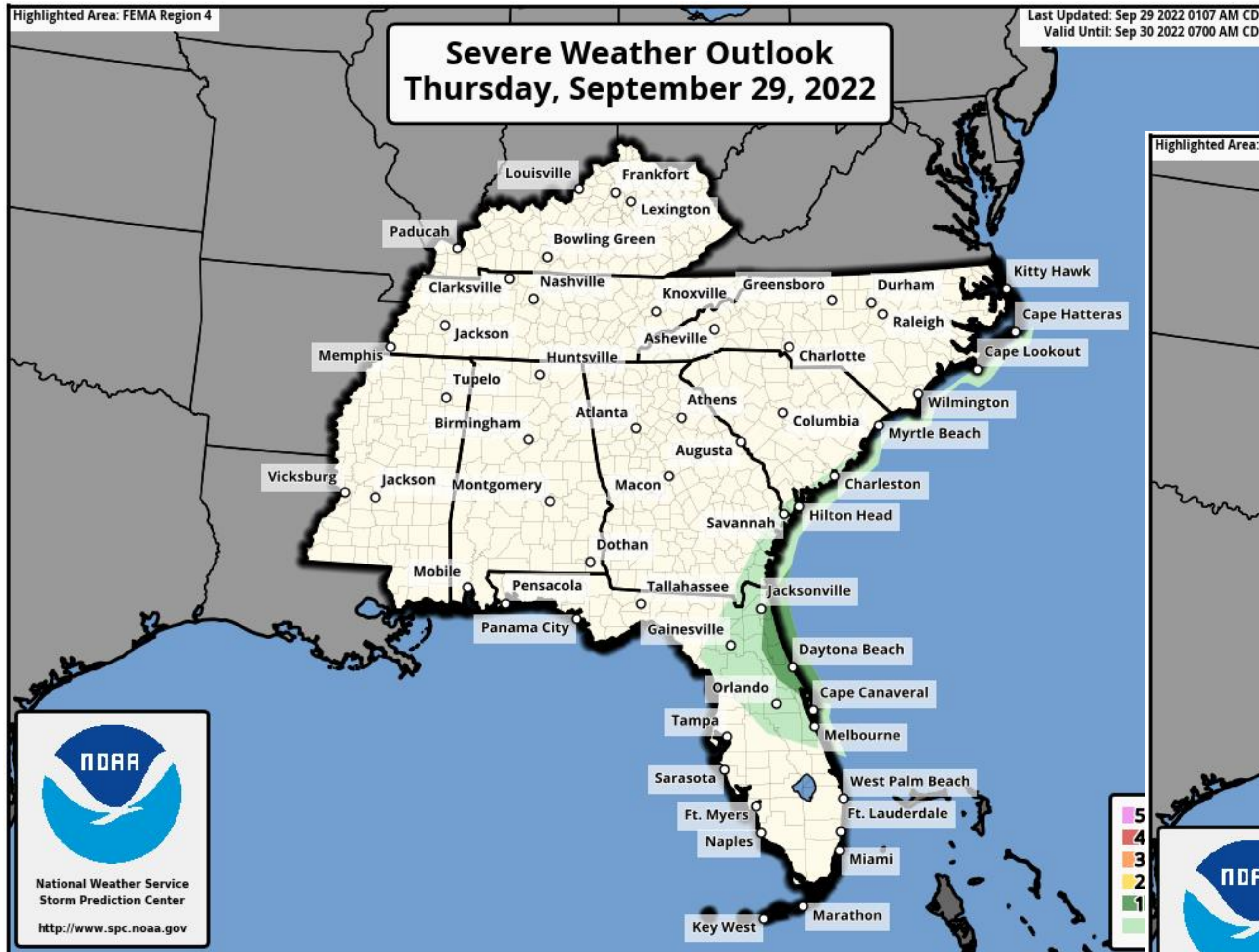
Tornado Outlook – Day 1 and 2



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Tropical Storm Ian

Image from NWS Storm Prediction Center



Key Messages

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



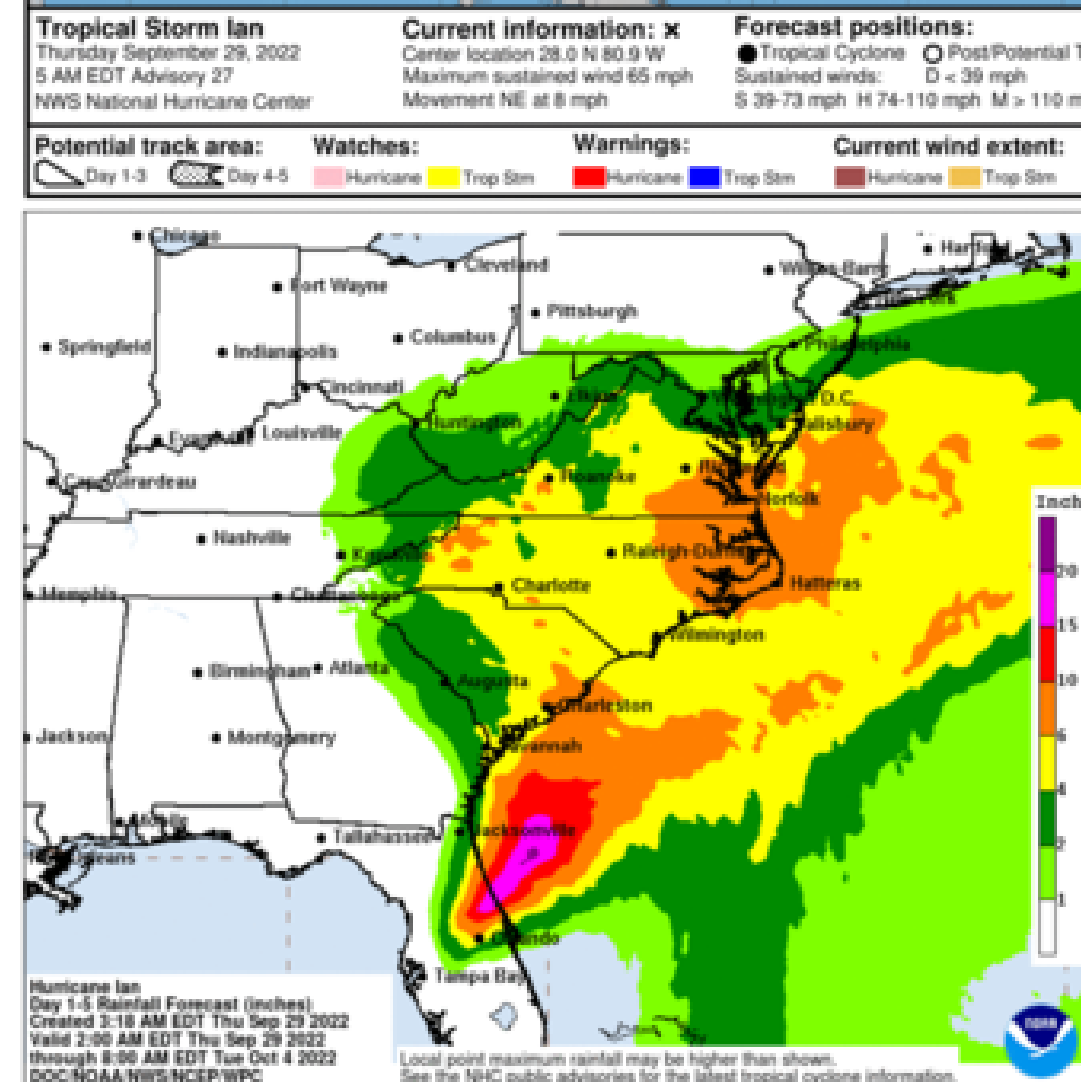
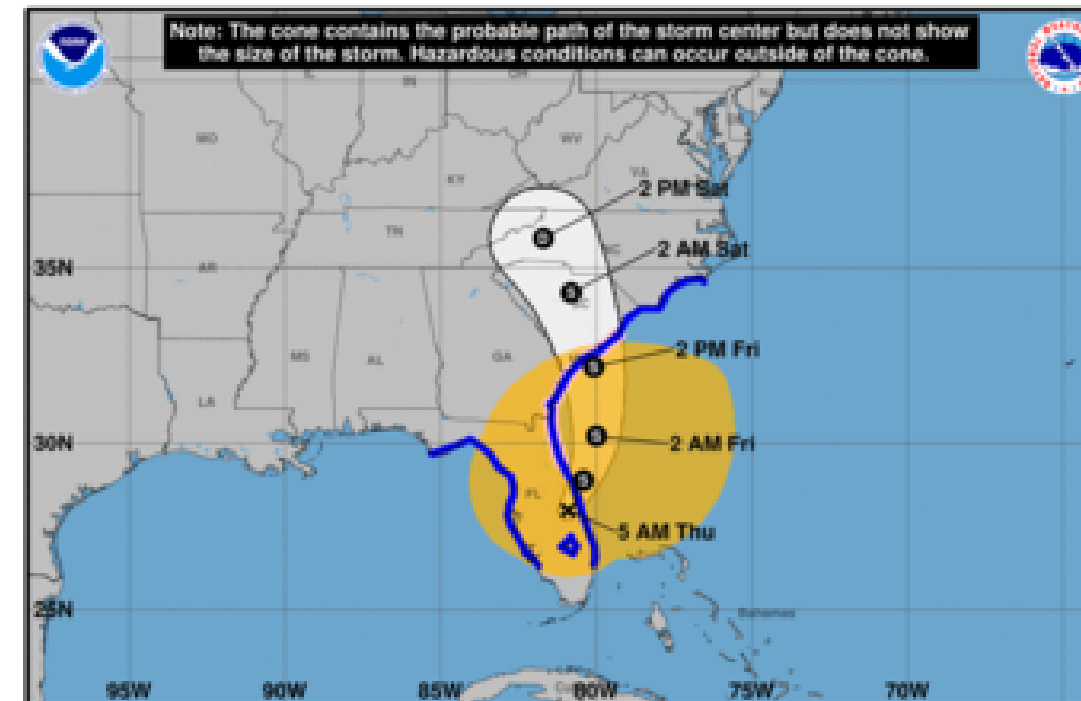
Key Messages for Tropical Storm Ian Advisory 27: 5:00 AM EDT Thu Sep 29, 2022



1. Coastal water levels continue to subside along the west coast of Florida. There is a danger of life-threatening storm surge today through Friday along the coasts of northeast Florida, Georgia, and South Carolina. Residents in these areas should follow any advice given by local officials.

2. Tropical-storm-force winds are expected to spread northward across northeastern Florida, Georgia, and the Carolina coasts through Friday. Hurricane conditions are possible through Friday along the coasts of northeastern Florida, Georgia and South Carolina where a Hurricane Watch is in effect.

3. Widespread, life-threatening catastrophic flooding, with major to record river flooding, will continue today across portions of central Florida with considerable flooding in northern Florida, southeastern Georgia and eastern South Carolina expected today through the end of the week.



For more information go to hurricanes.gov

IMPACTS FOR D7 (through next 5 days)

Winds – **Medium** to **High**

Storm Surge – **Medium**

Rainfall/Flash Flooding – **High**

Tornadoes – **Low**

Waves - **Extreme**

Marine Key Messages:

- Seas in eastern Gulf will subside by Friday morning
- Seas in Atlantic offshore of Georgia/South Carolina will build near 30 ft tonight and into Friday morning



TROPICAL STORM IAN BRIEFING

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

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

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

