

IMPACTS FOR D7 (through next 5 days)

Winds – High

Storm Surge – High

Rainfall/Flash Flooding – High

Tornadoes – Low

Waves - Extreme

TROPICAL STORM IAN BRIEFING

4:00 PM EDT

Thursday, September 29, 2022

Prepared by:

Amanda Reinhart

Tropical Analysis and Forecast Branch

NWS National Hurricane Center

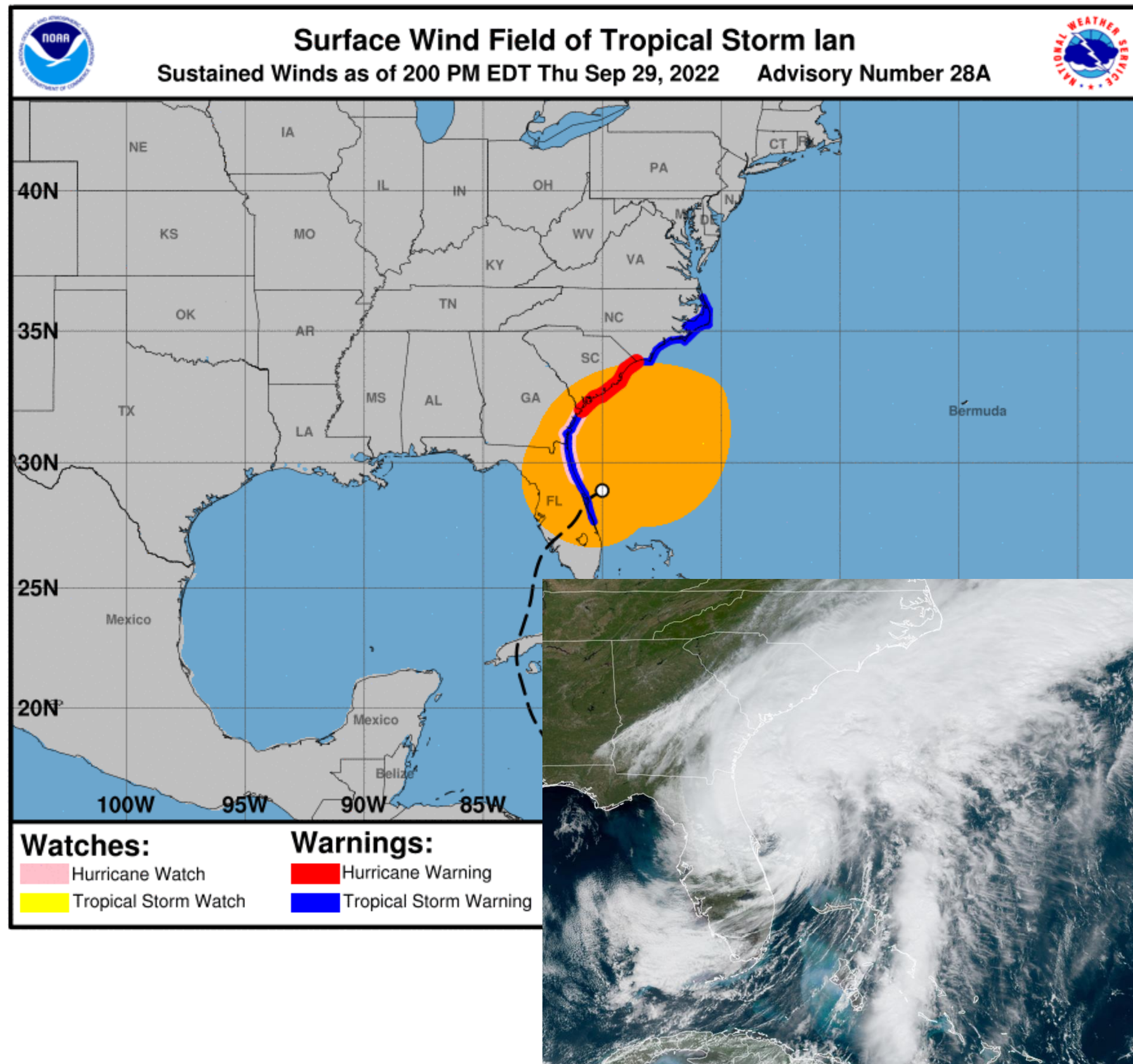


Situation Overview

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



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

SUMMARY OF 200 PM EDT INFORMATION

Location...28.9N 80.0W
About 35 nm NE of Cape Canaveral, Florida
About 240 nm S of Charleston, South Carolina
Maximum Sustained Winds...60 kt
Present Movement...NNE at 8 kt
Minimum Central Pressure...987 mb
Peak Seas...26 ft

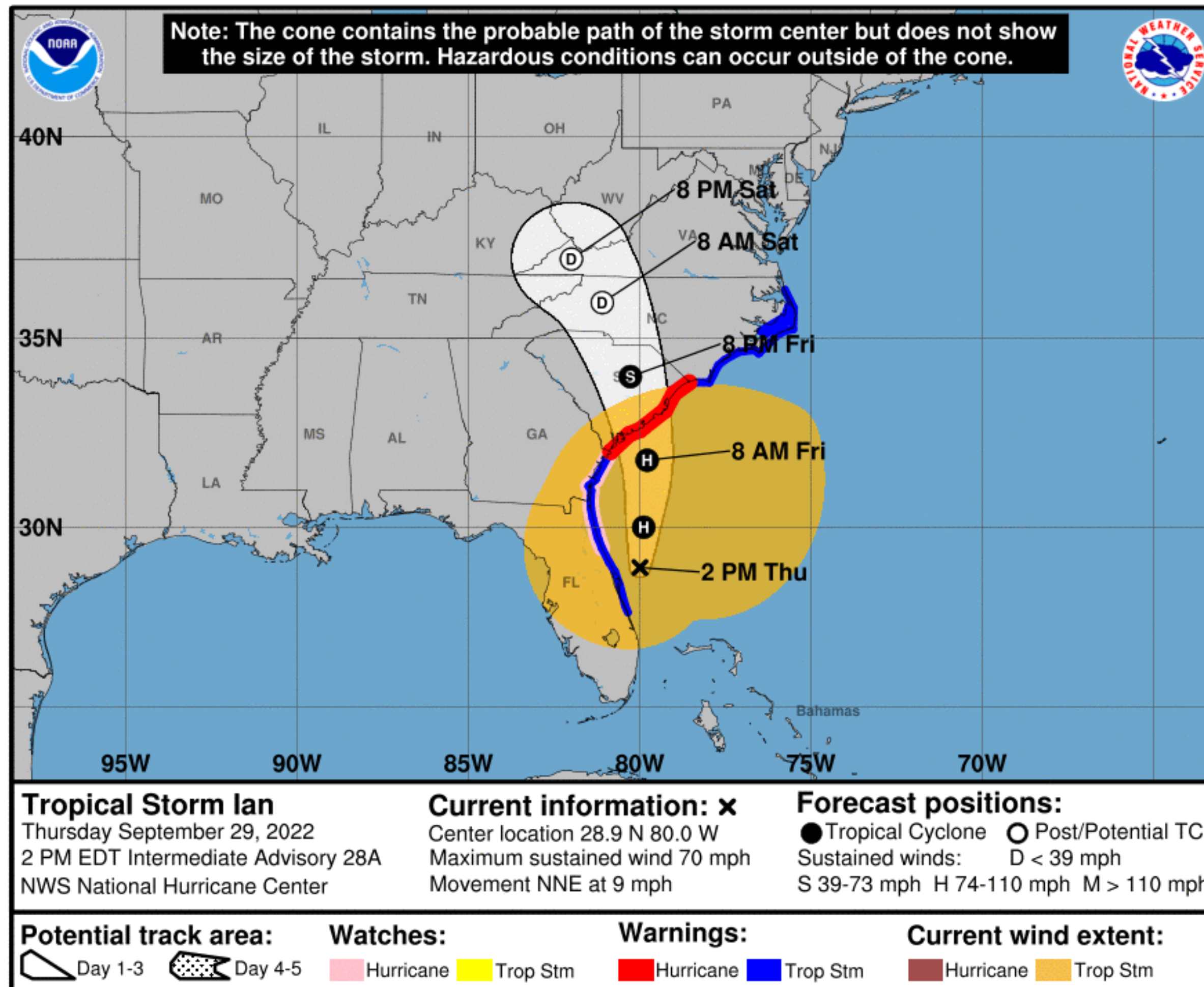
Size:
50 KT..... 60NE 50SE 40SW 70NW.
34 KT.....360NE 120SE 150SW 200NW.
12 FT SEAS..270NE 120SE 0SW 0NW.

Forecast Information

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- Ian has emerged off the Florida coast and will continue moving north over the next day or so
- Ian is expected to regain hurricane strength by this evening
- The second U.S. landfall is expected along the South Carolina coast sometime Fri morning as a hurricane
- 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

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

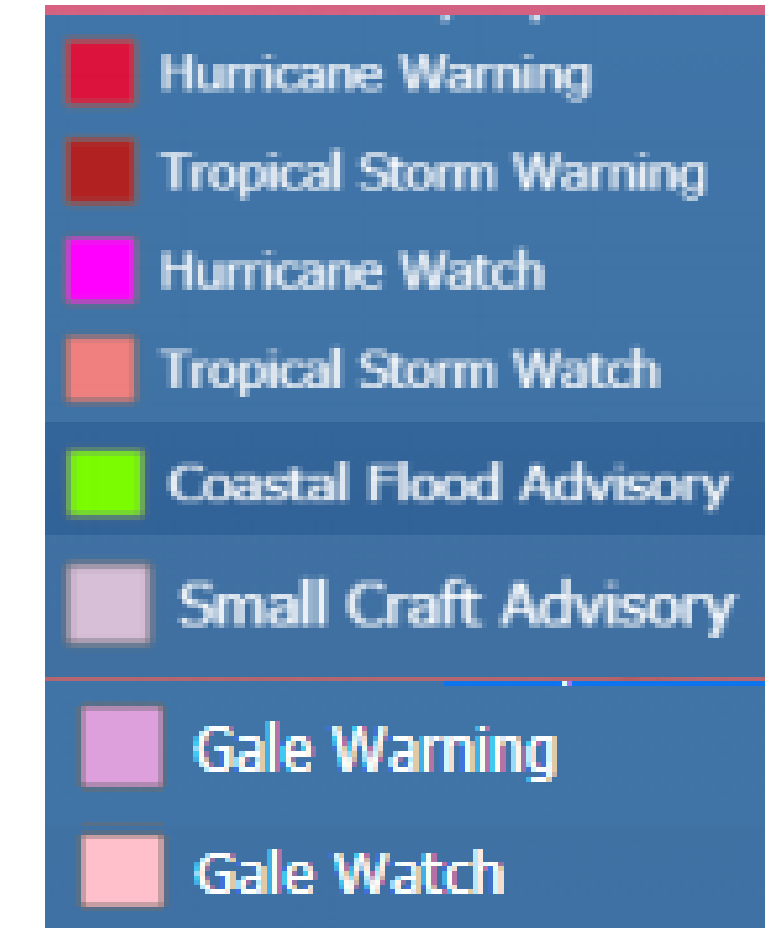
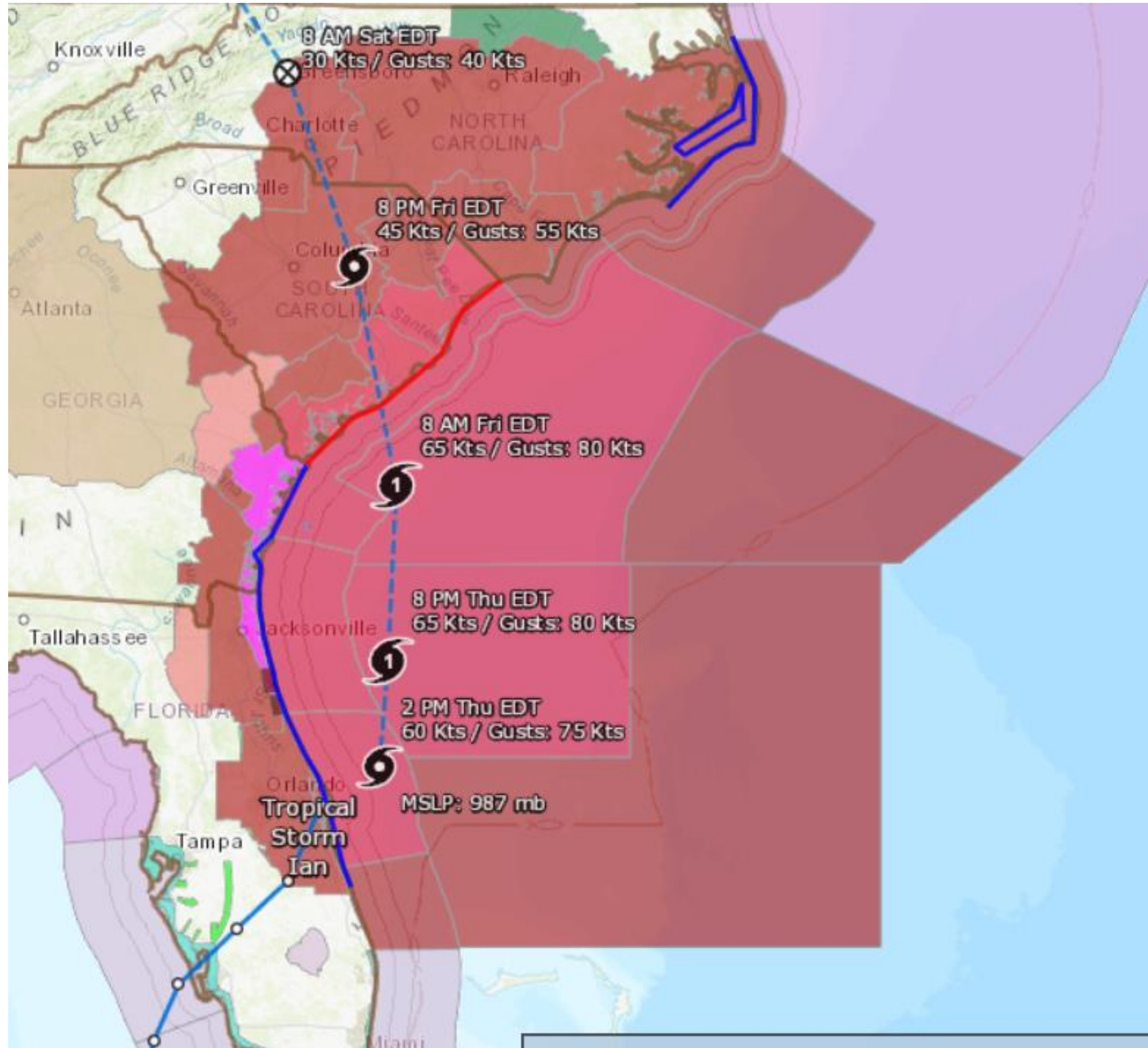
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

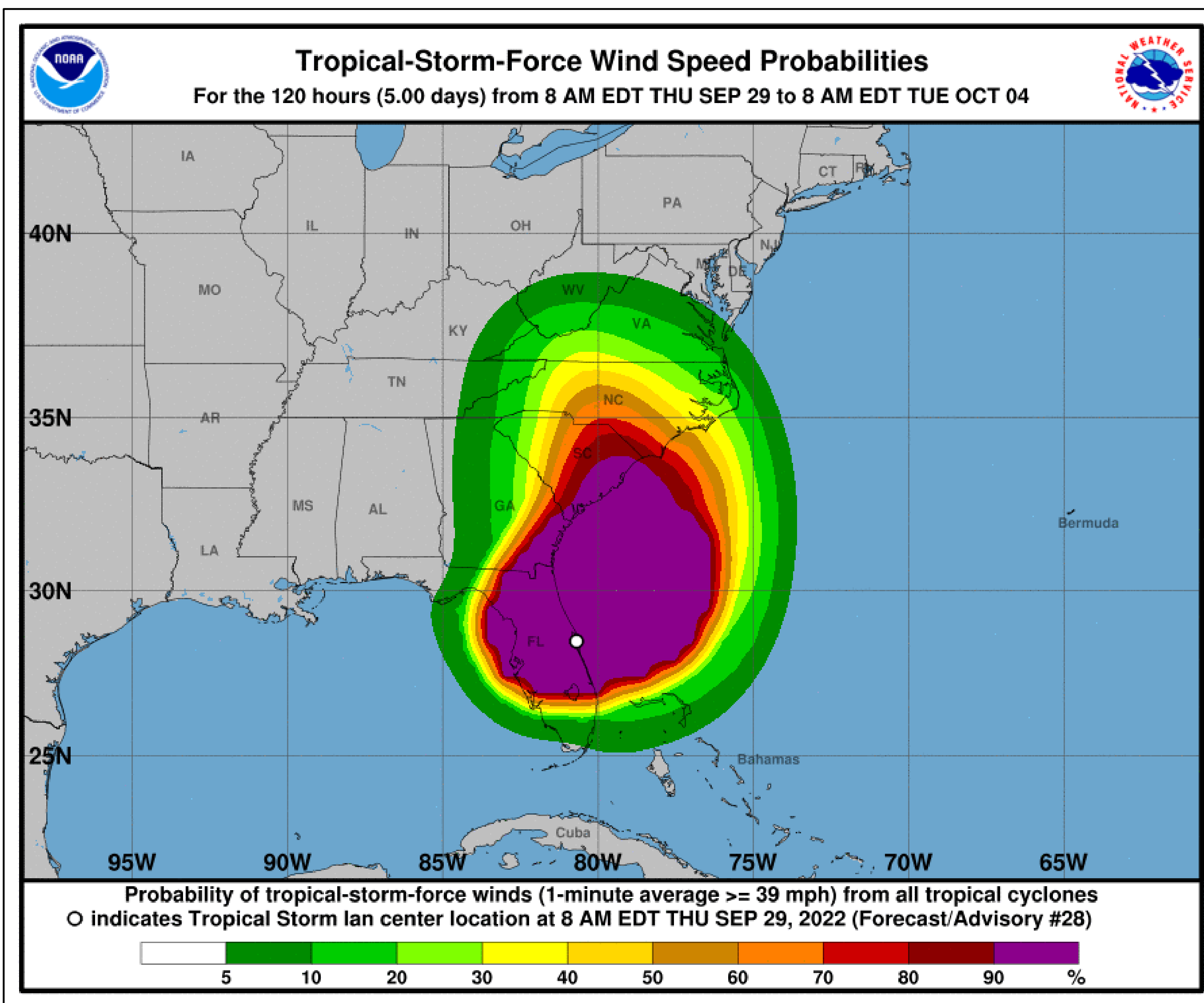


T.S. Wind Speed Probabilities

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



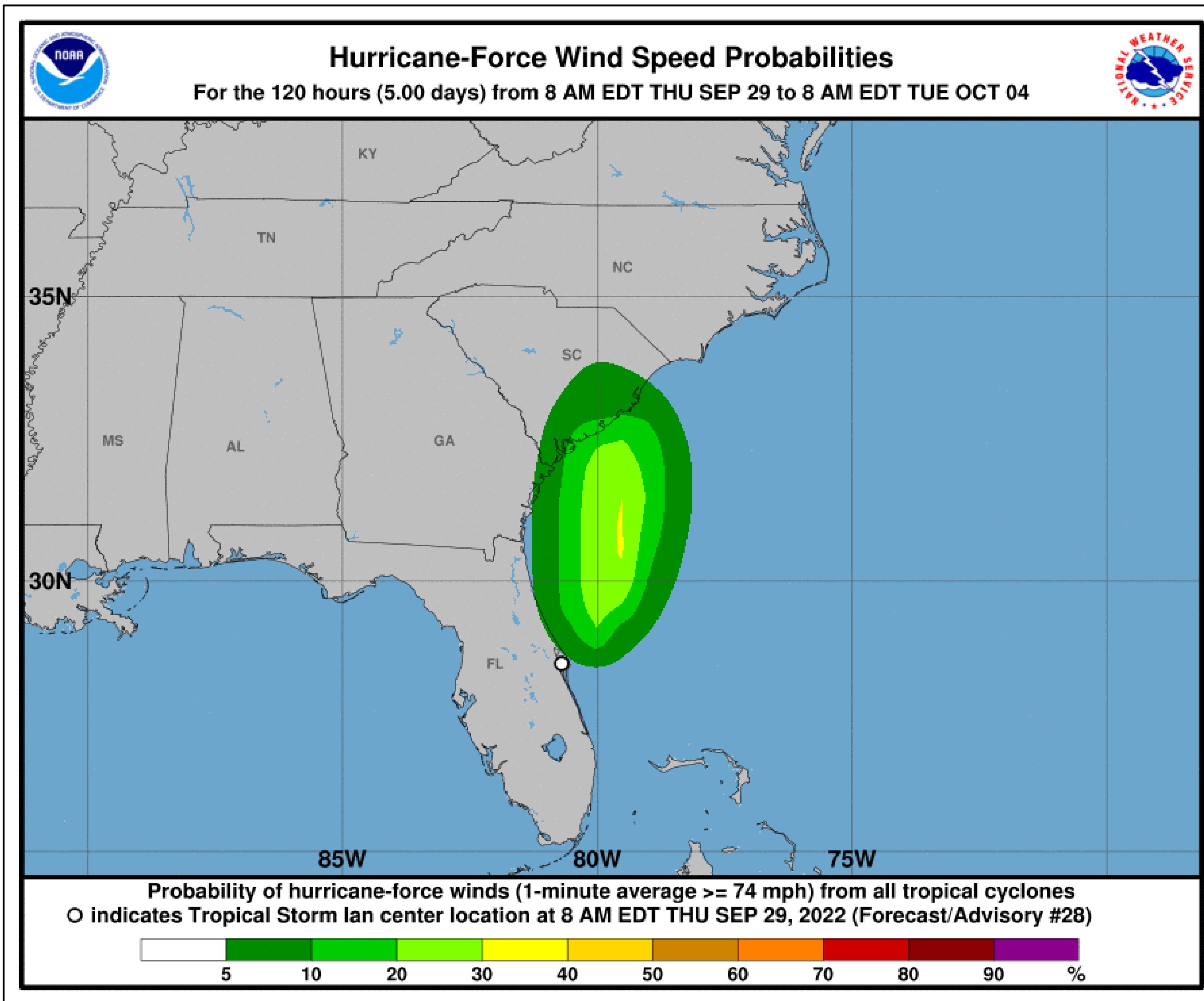
- **FLORENCE – 85%**
 - **MYRTLE BEACH – 95%**
 - **GEORGETOWN – 95%**
 - **CHARLESTON - 100%**
 - **BEAUFORT - 95%**
 - **SAVANNAH – 100%**
 - **KINGS BAY - 100%**
 - **MAYPORT – 100%**
 - **JACKSONVILLE – 100%**
 - **DAYTONA BEACH - 100%**
 - **COCOA BEACH – 100%**
 - **NAPLES FL - 100%**
 - **FT MYERS FL - 100%**
 - **VENICE FL - 100%**
 - **TAMPA FL - 100%**
 - **CEDAR KEY – 75%**
 - **PATRICK AFB - 100%**
 - **FT PIERCE – 100%**
 - **W PALM BEACH – 20%**
 - **FT. LAUDERDALE – 10%**
- 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



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Ian

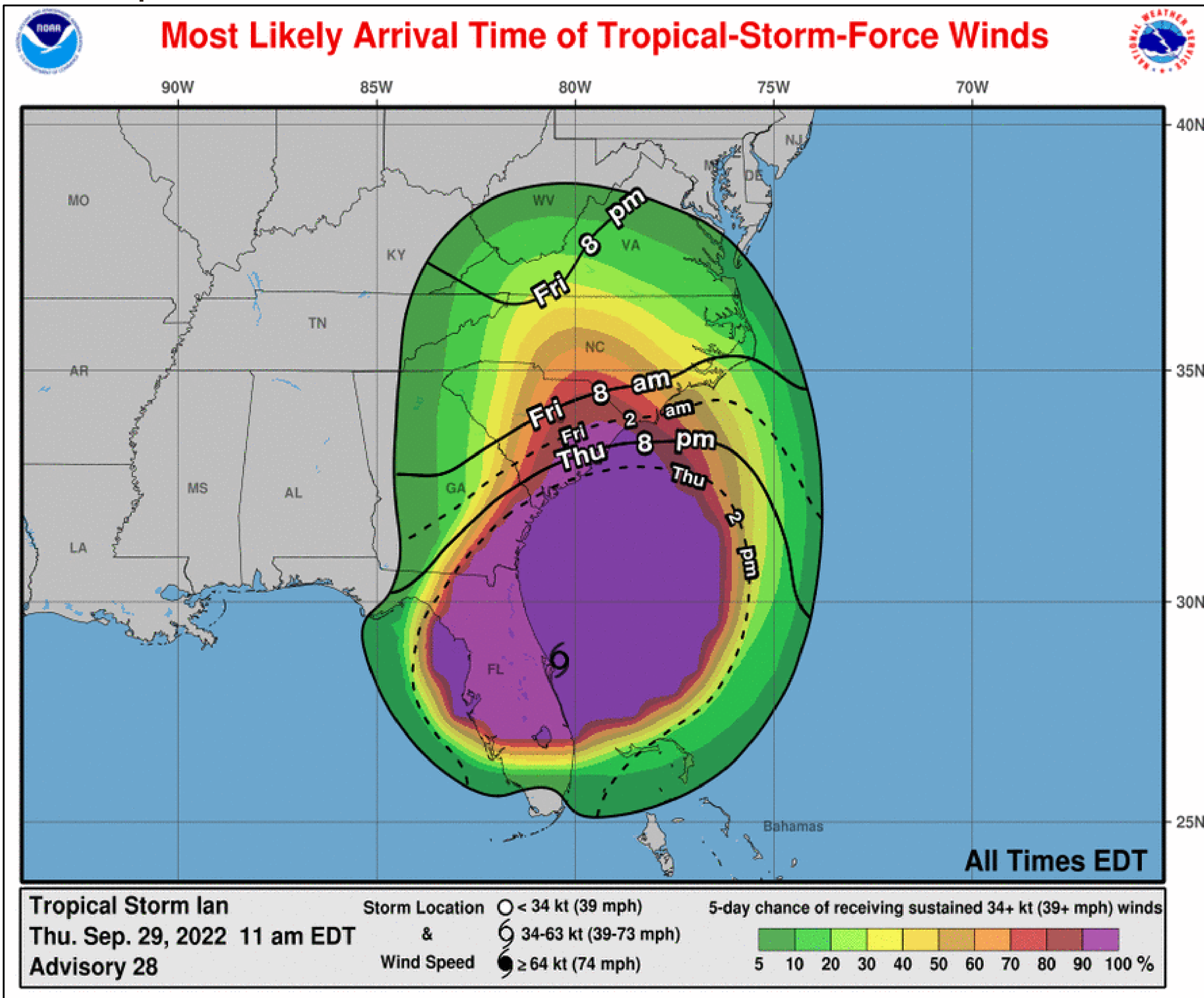


- **FLORENCE – 5%**
- **MYRTLE BEACH – 5%**
- **CHARLESTON SC – 15%**
- **BEAUFORT – 10%**

- 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 – Ongoing**
- **South Carolina coast – Tonight**
- 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



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

MOST LIKELY

- **Venice, FL - Tonight**
- **Tampa, FL – Ending now**
- **Cedar Key, FL – Ending now**
- **Cocoa Beach, FL - This evening**
- **Daytona Beach, FL - This evening**
- **Jacksonville, FL – Early Friday morning**

- **Savannah, GA – Friday morning**
- **Beaufort, SC – Friday afternoon**
- **Charleston, SC – Friday afternoon**

LATEST REASONABLE

- **Venice, FL – Friday morning**
- **Tampa, FL – Mid-afternoon**
- **Cedar Key, FL – Tonight**
- **Cocoa Beach, FL - Tonight**
- **Daytona Beach, FL - Tonight**
- **Jacksonville, FL – Friday mid-morning**

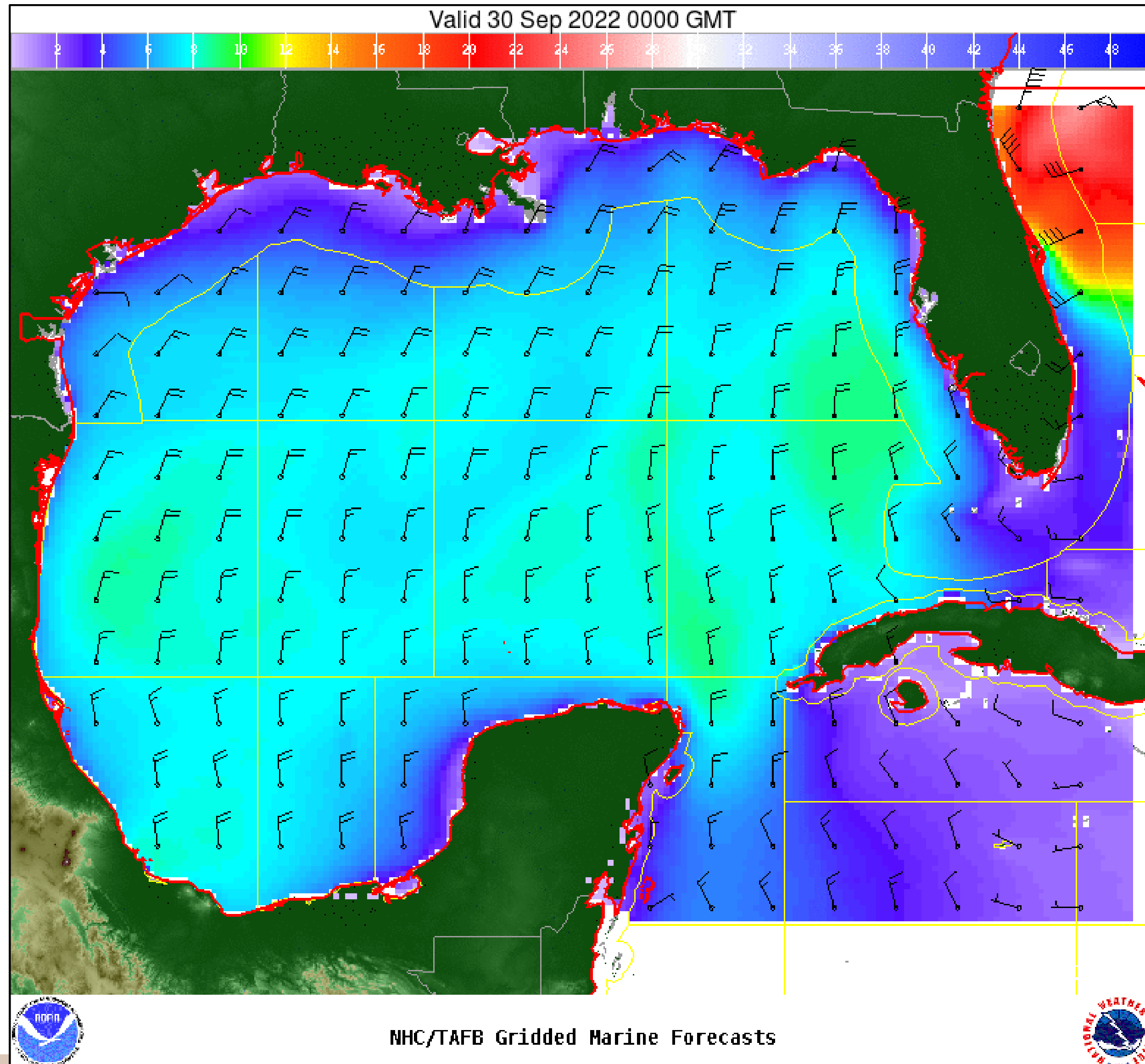
- **Savannah, GA – Friday evening**
- **Beaufort, SC – Friday evening**
- **Charleston, SC – Friday night**

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

Wind And Waves



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Current Conditions

5pm EDT Thursday, Sept 29

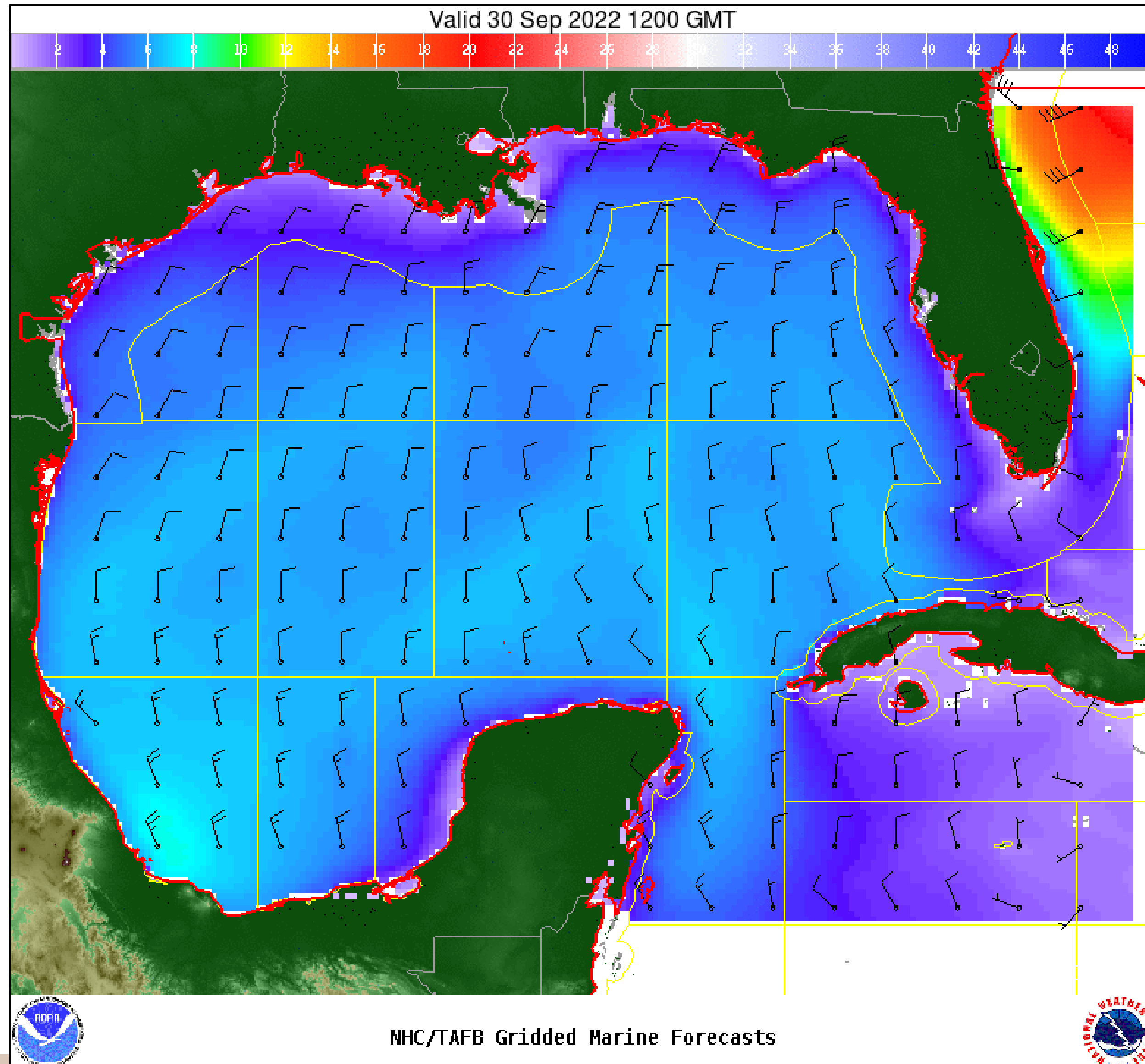
Peak Winds: 30 kt

Peak Seas: 10 ft

■ Wave heights are in feet



Significant Wave Height (ft)



12 Hour Forecast

8am EDT Friday, September 29

Peak Winds: 20 kt

Peak Seas: 6 ft

■ Wave heights are in feet



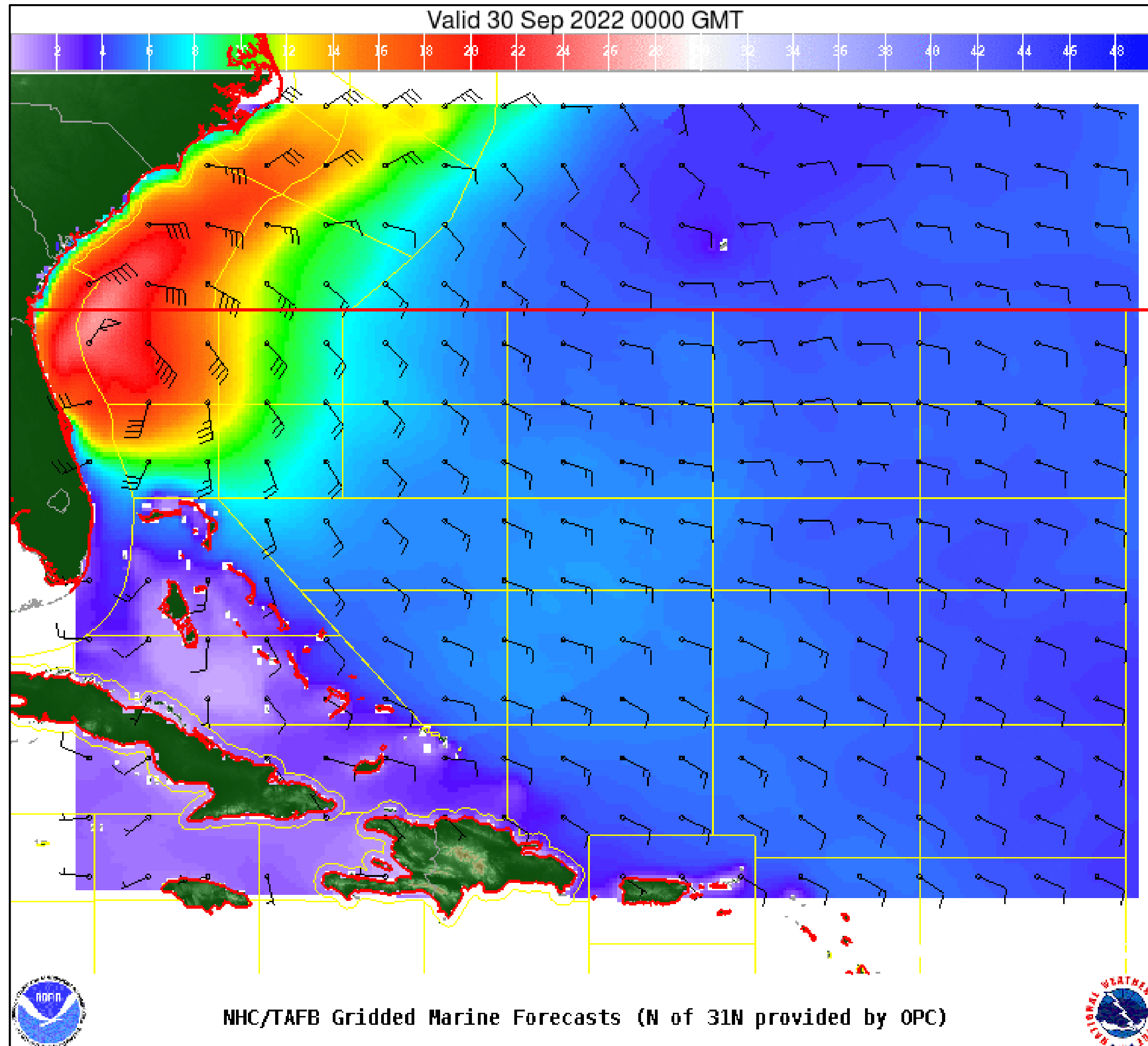
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Current Conditions

5pm EDT Thursday, Sept 29

Peak Winds: 60 kt

Peak Seas: 26 ft

■ Wave heights are in feet



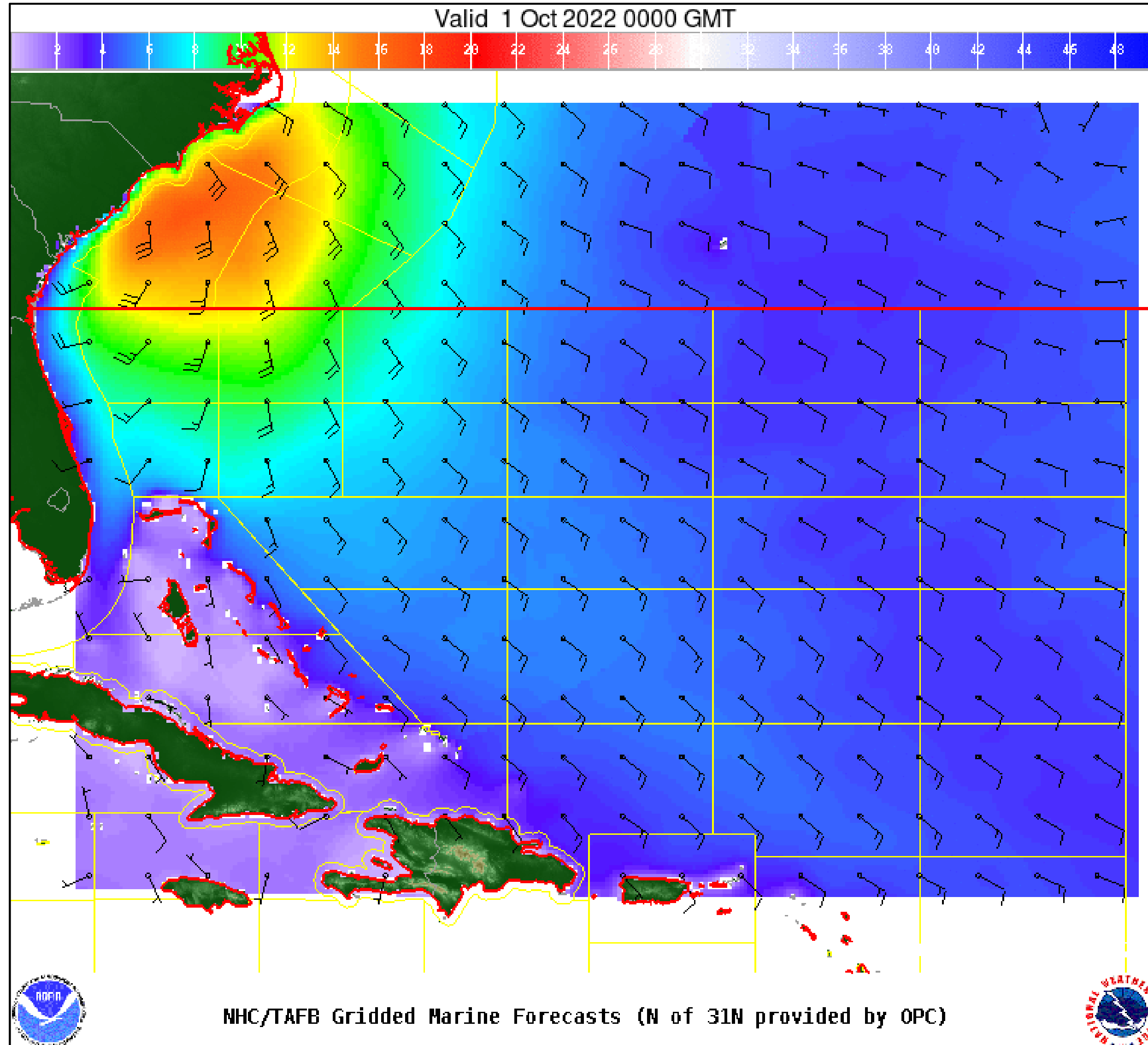
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



24 Hour Forecast

5pm EDT Friday, September 30

Peak Winds: 30 kt

Peak Seas: 17 ft

■ Wave heights are in feet



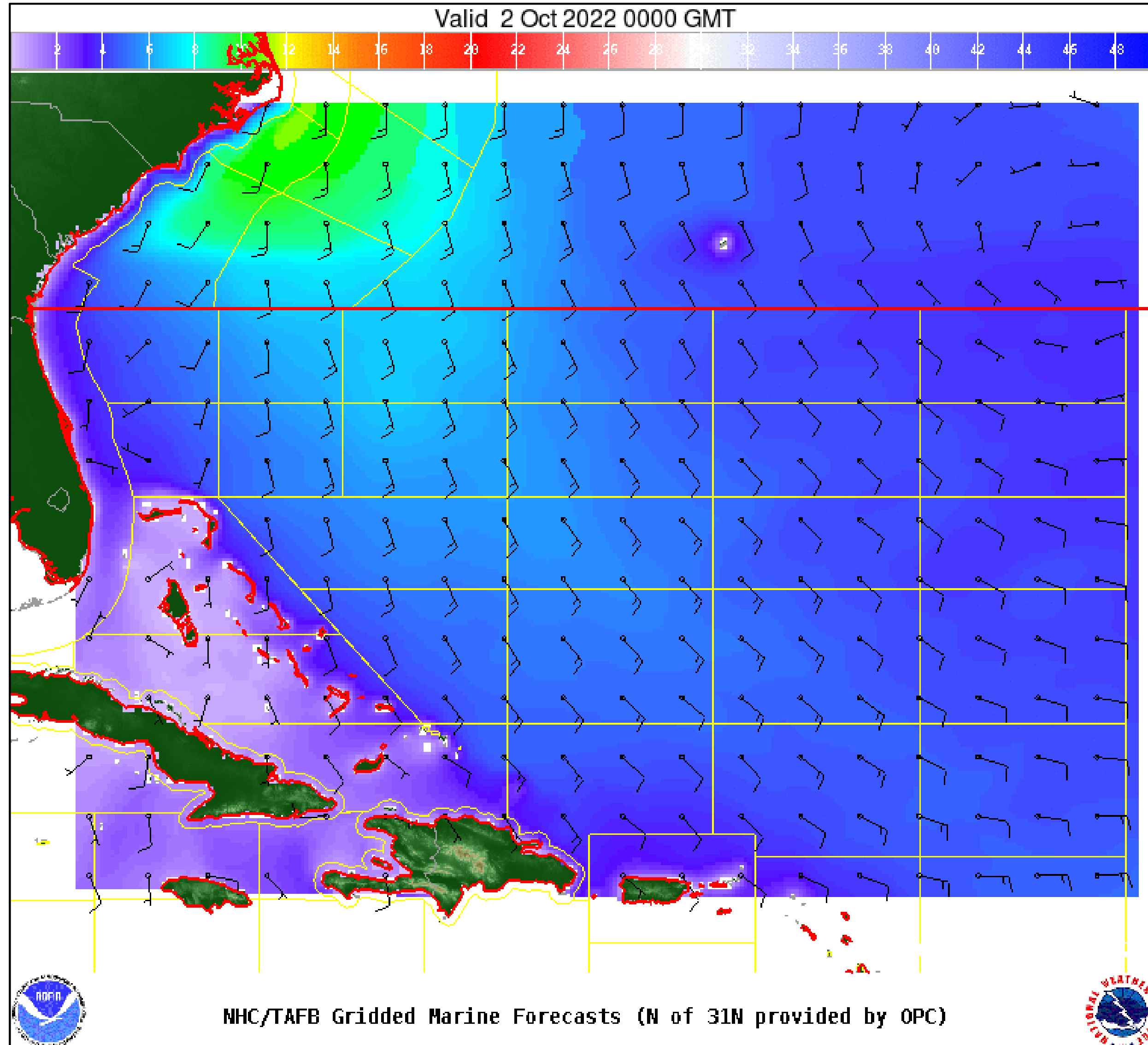
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



48 Hour Forecast

5pm EDT Saturday, Oct 1

Peak Winds: 15 kt

Peak Seas: 11 ft

■ Wave heights are in feet



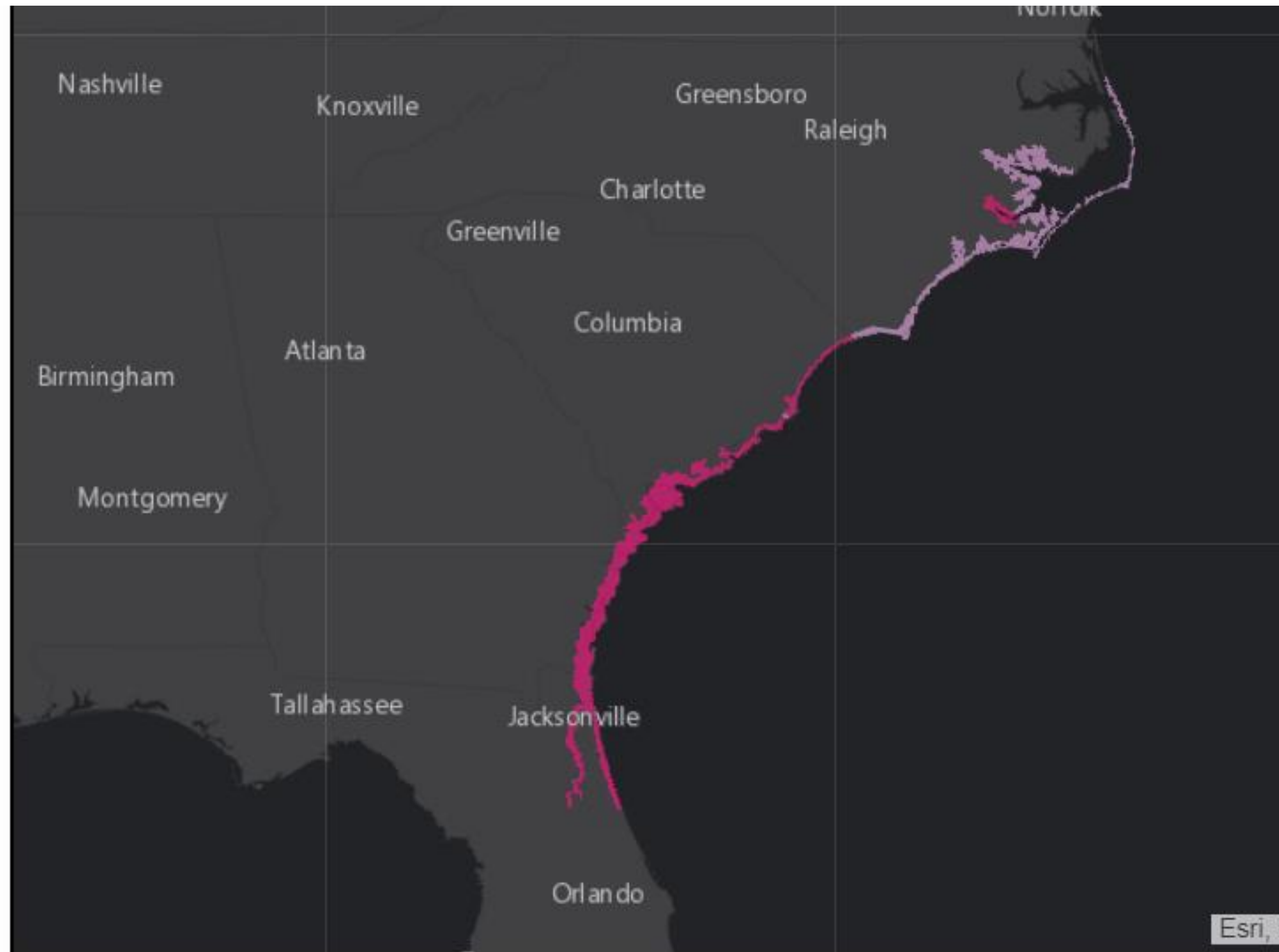
Significant Wave Height (ft)

Potential Peak Storm Surge / Watches and Warnings



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Ian



Storm Surge Warning

- Flagler/Volusia Line to Little River Inlet
- Neuse River
- St. Johns River

Storm Surge Watch

- North of South Santee River to Duck North Carolina
- Pamlico River

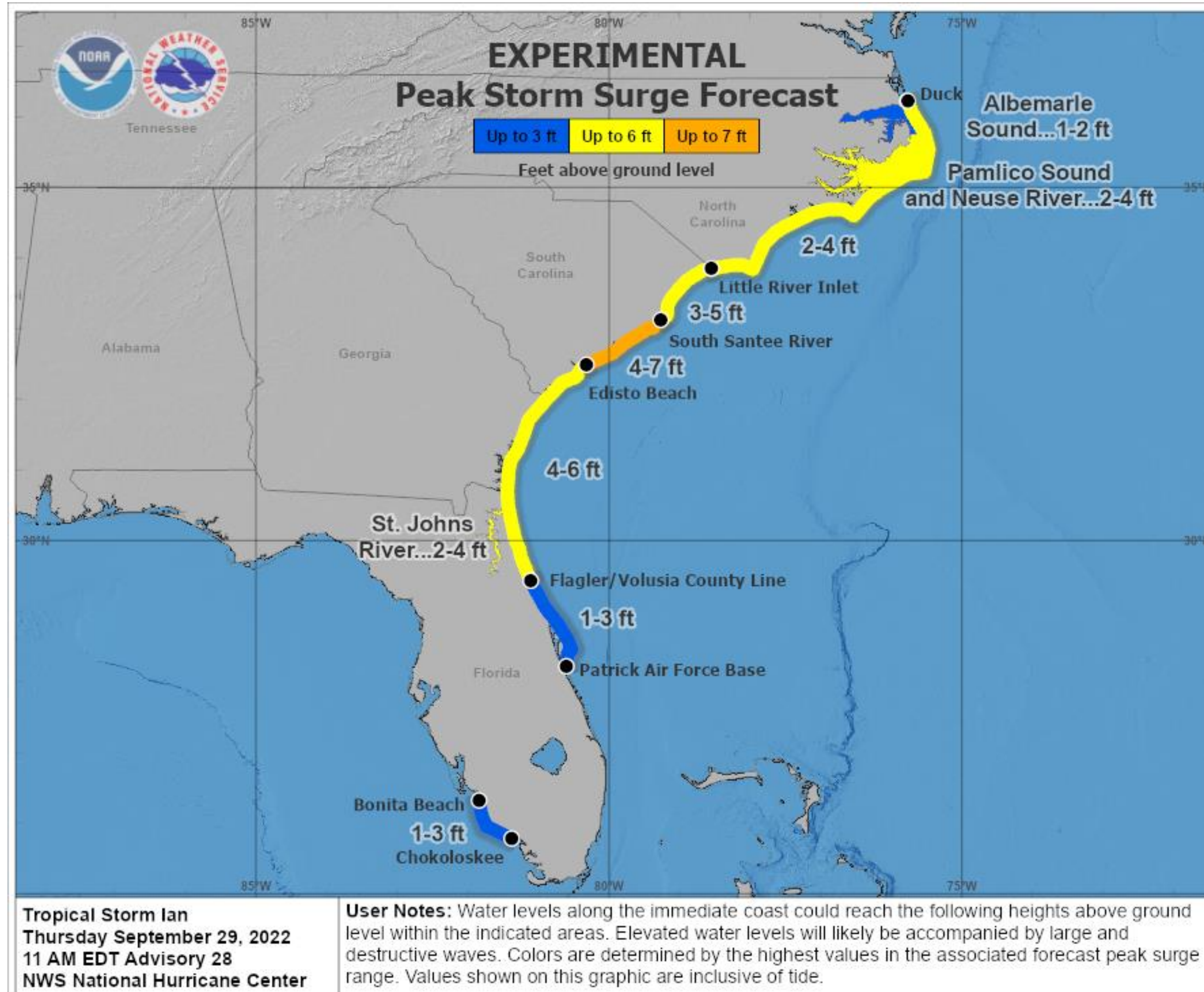
- Potential storm surge is represented in feet above the ground at any given point.

Potential Peak Storm Surge / Watches and Warnings



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Ian



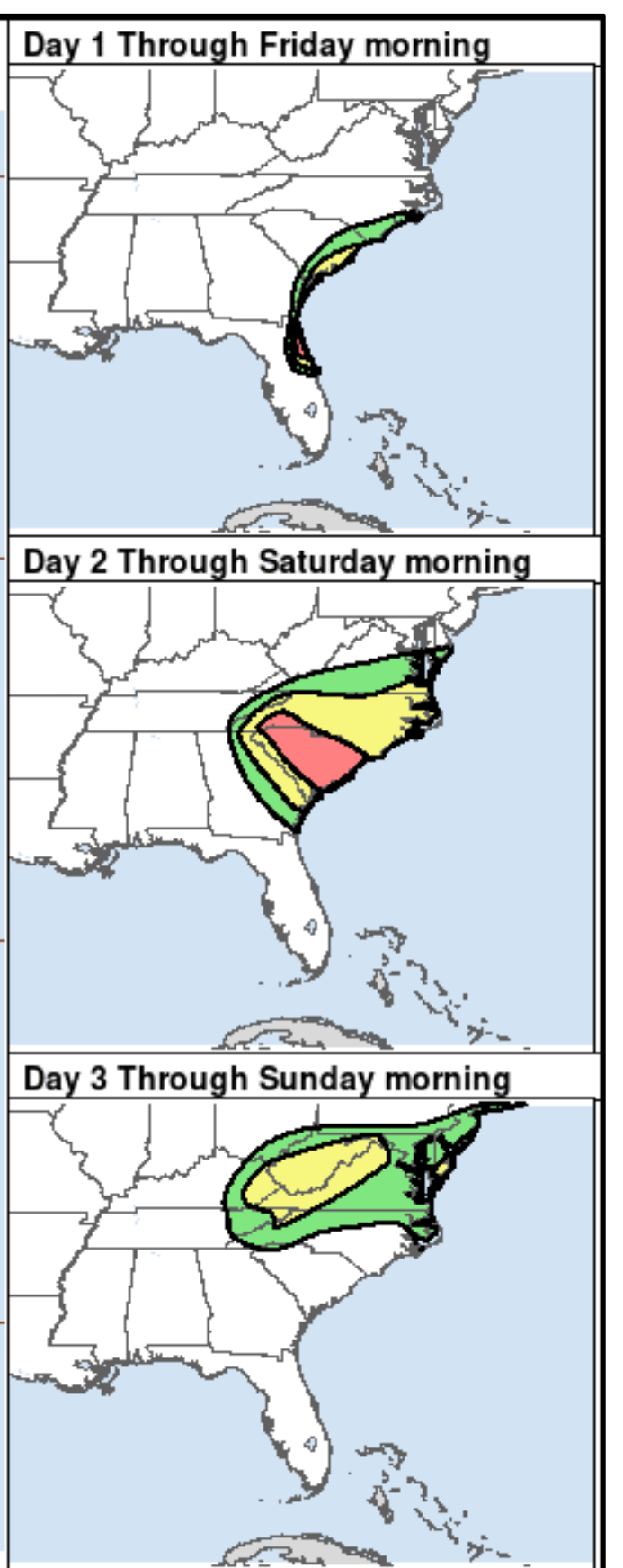
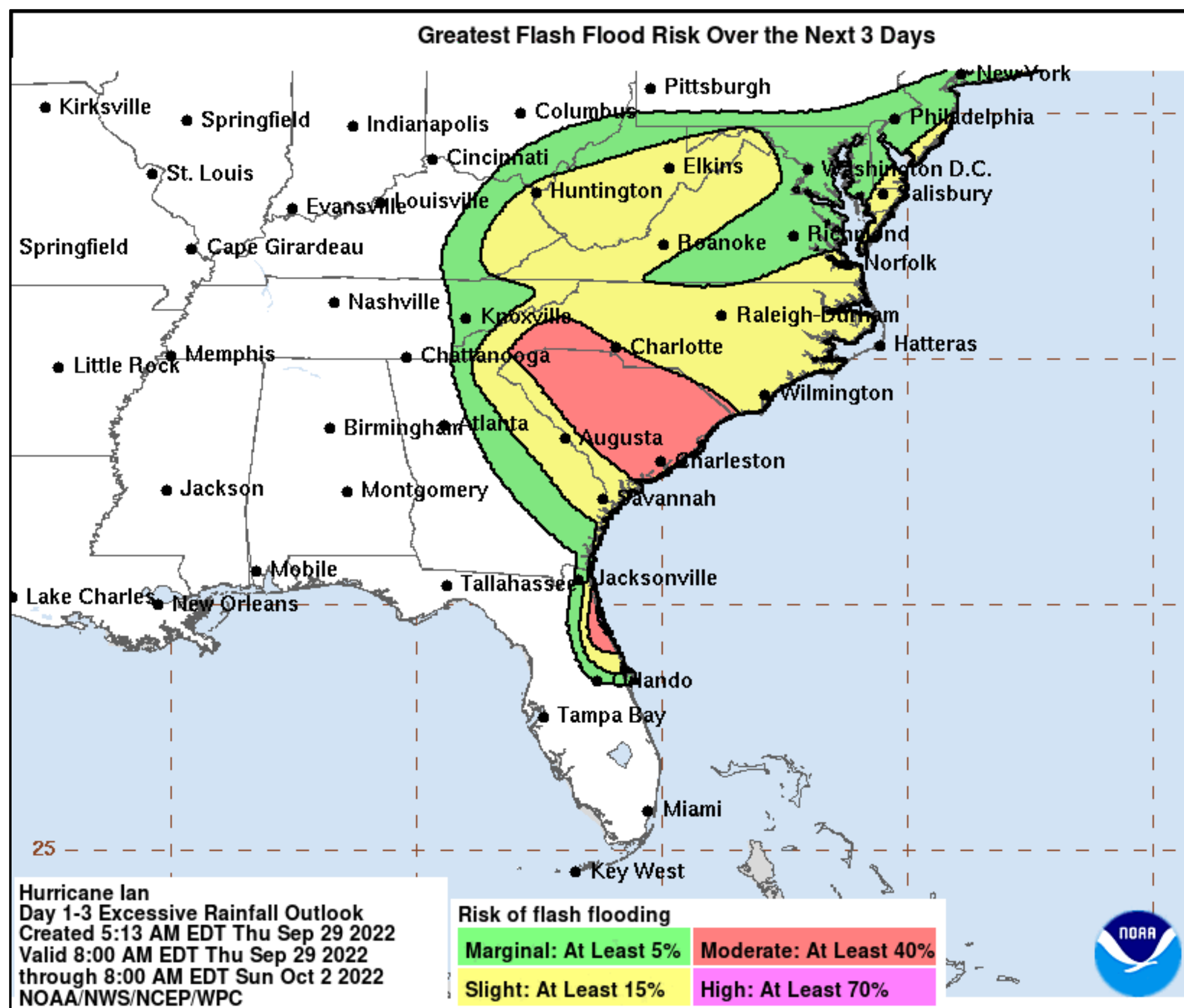
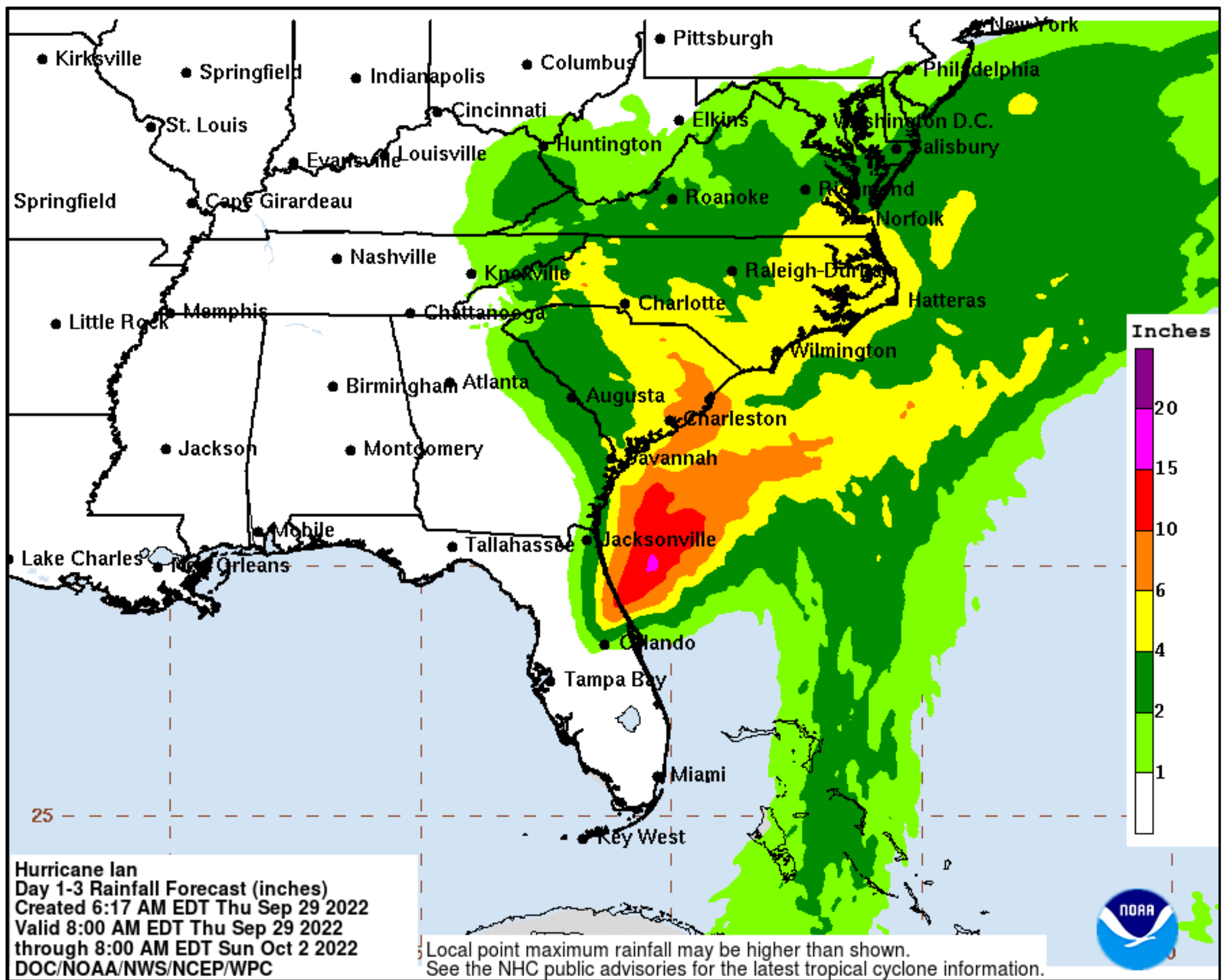
Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Ian

Images from NWS Weather Prediction Center



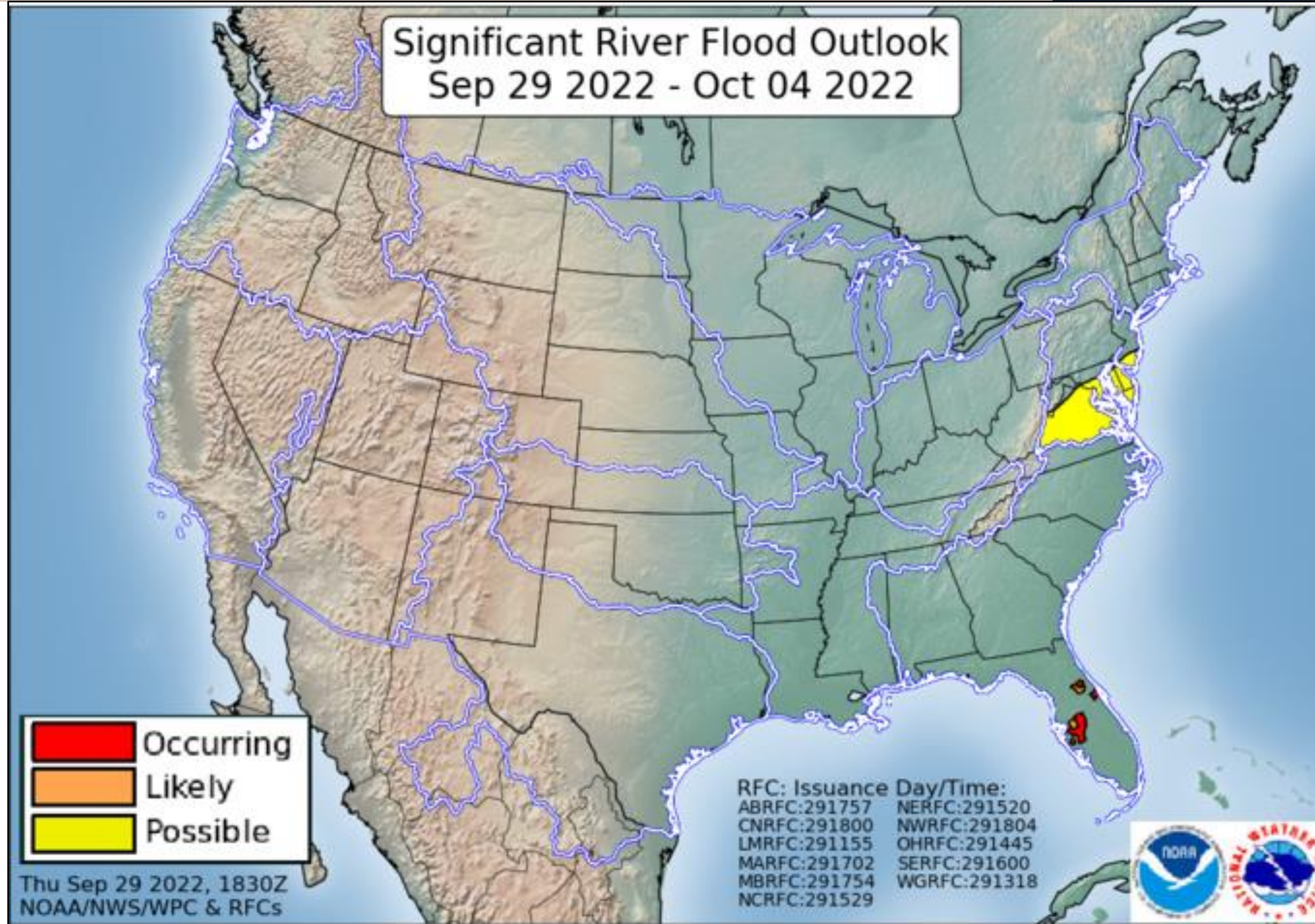
Valid through Sunday morning

Flood Outlook

Tropical Storm Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



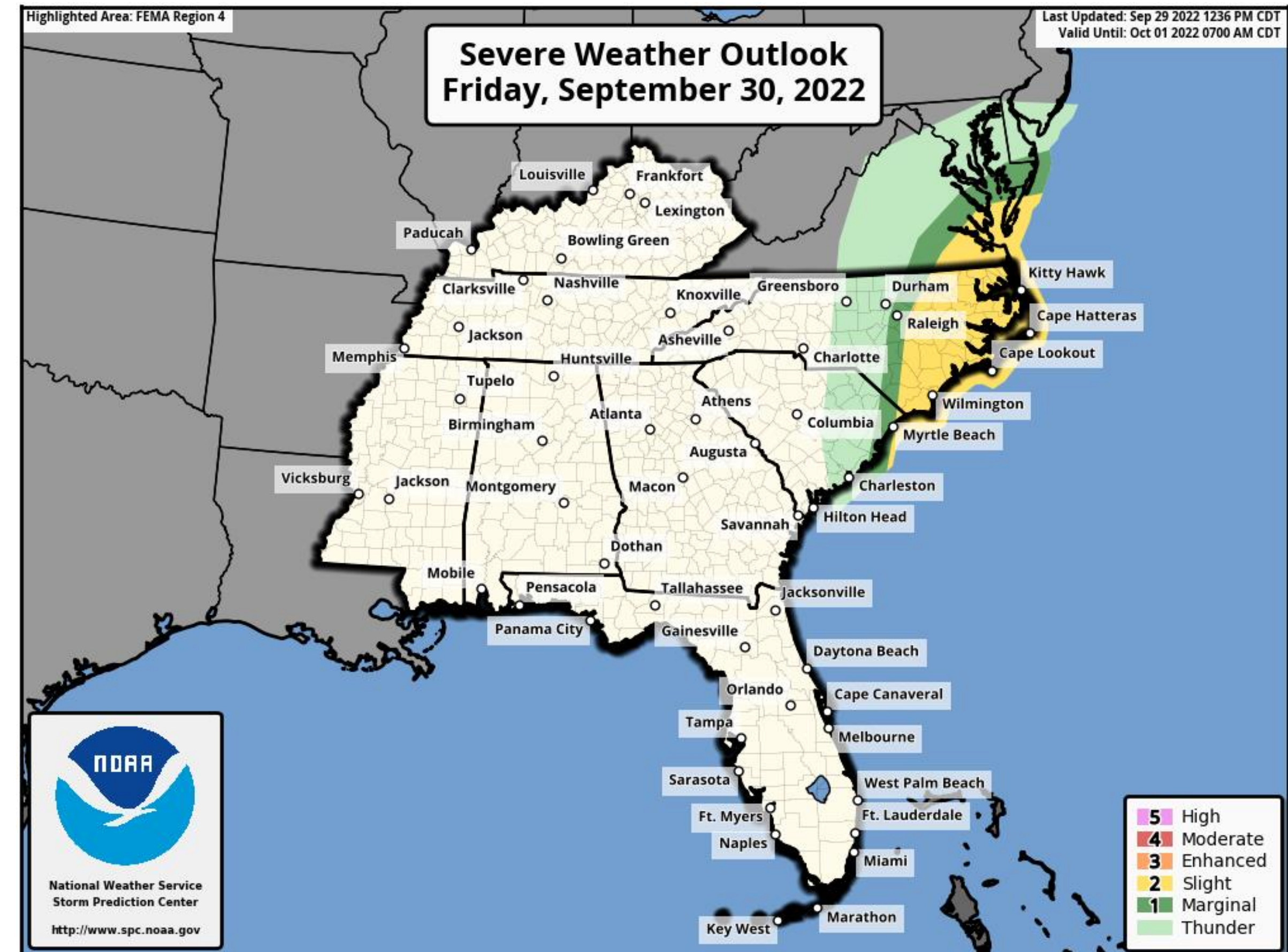
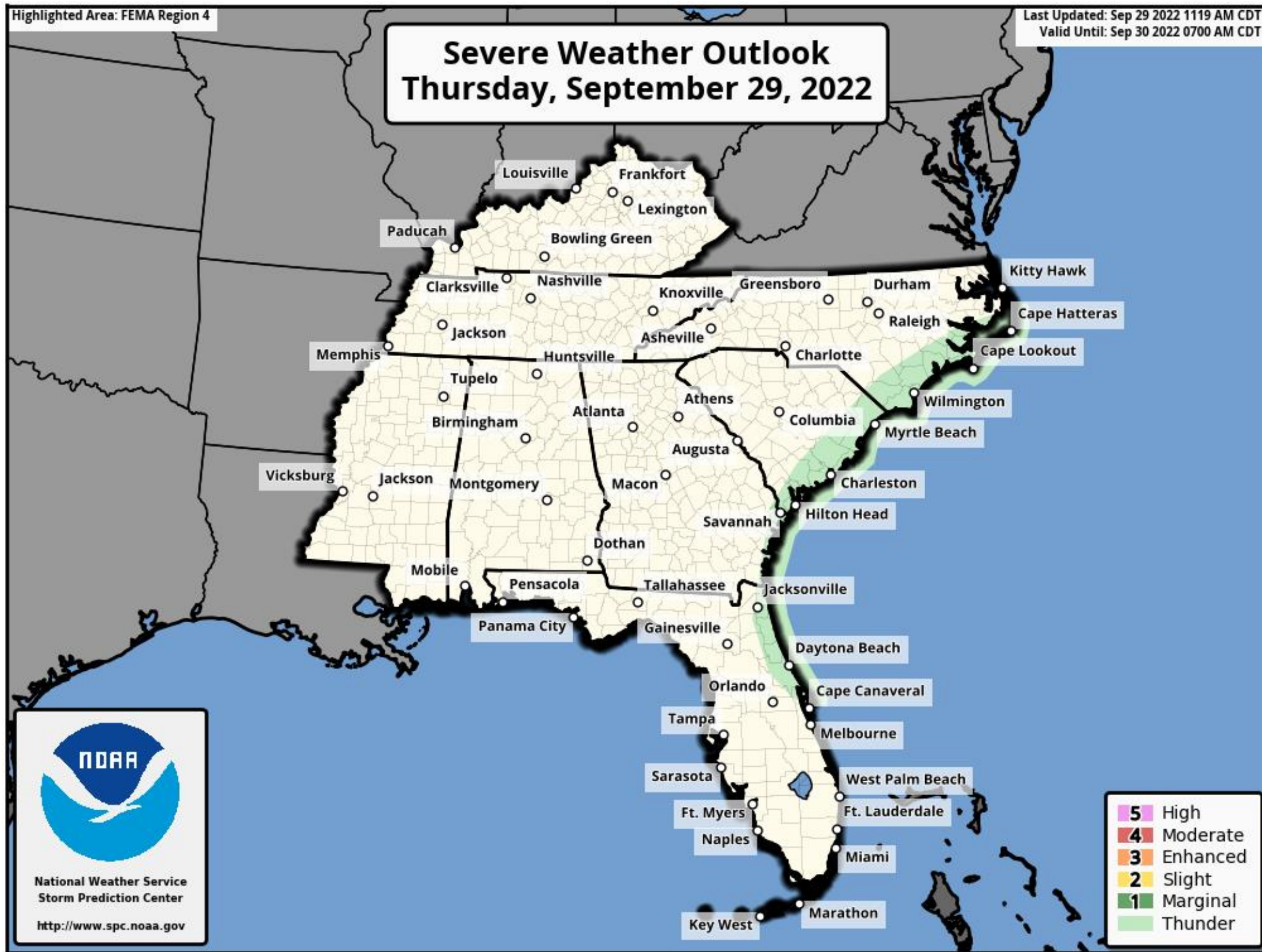
Tornado Outlook – Day 1 & 2

Tropical Storm Ian

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages

Tropical Storm Ian



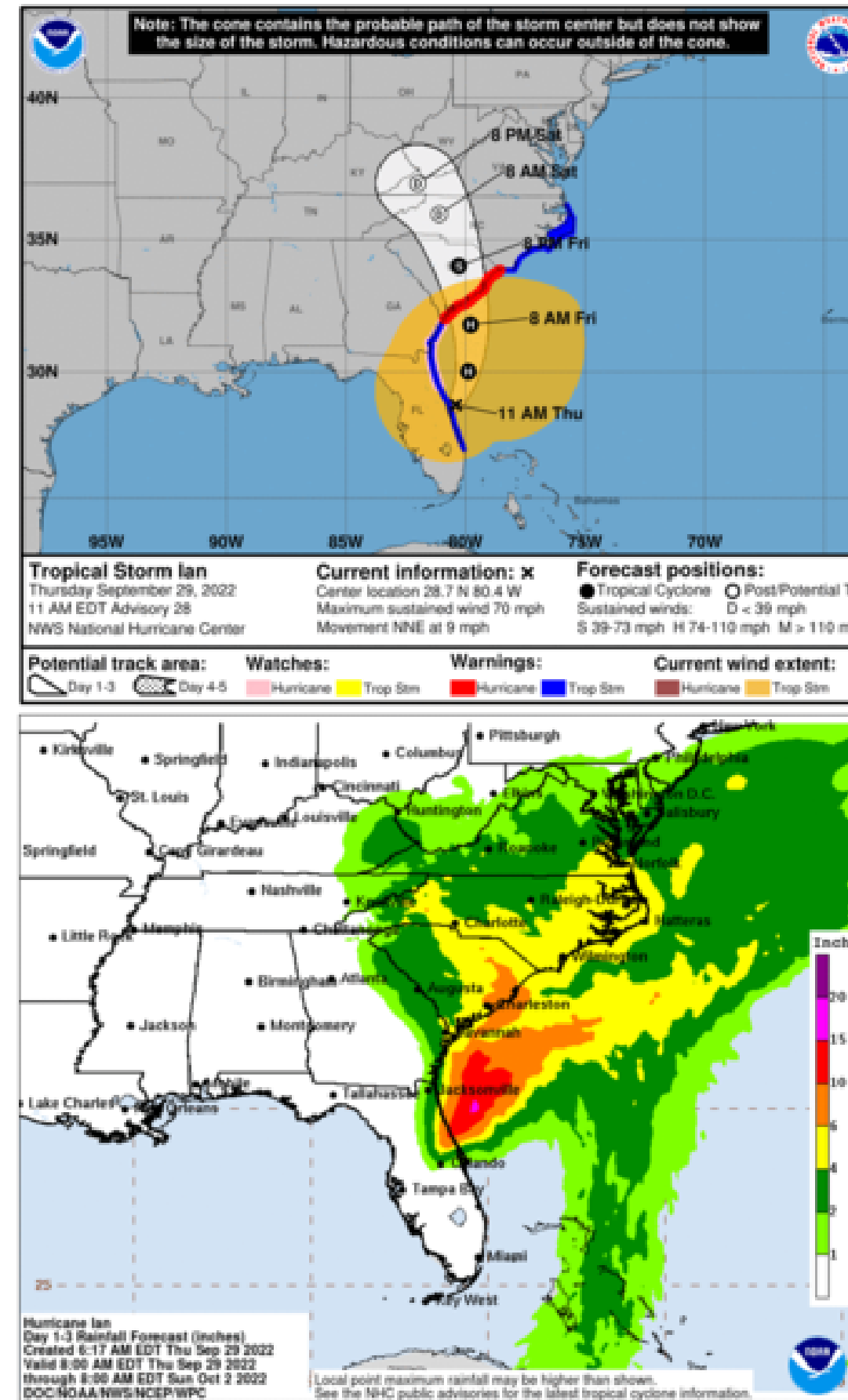
Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Storm Ian

Advisory 28: 11:00 AM EDT Thu Sep 29, 2022

1. There is a danger of life-threatening storm surge 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. Hurricane-force winds are expected across the South Carolina coast beginning early Friday, where a Hurricane Warning has been issued. Hurricane conditions are possible by tonight along the coasts of northeastern Florida and Georgia, where a Hurricane Watch is in effect. Preparations should be rushed to completion since tropical-storm-force winds will begin well before the center approaches the coast.
3. Ongoing major-to-record river flooding will continue across portions of central Florida, with considerable flooding in northern Florida. Considerable flash and urban flooding is expected across coastal portions of northeast Florida through Friday. Local significant flooding in southeastern Georgia and eastern South Carolina is expected through the end of the week.



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 continue to subside and drop below 8 ft tonight in the eastern Gulf of Mexico
- Seas will build near 30 ft off the GA/SC coast tonight
- Seas will begin to subside on Fri afternoon and improve by Sat



TROPICAL STORM IAN BRIEFING

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

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

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

