

**IMPACTS FOR D7 (through next 5 days)**

**Winds – Extreme**

**Storm Surge – Extreme**

**Rainfall/Flash Flooding – Extreme**

**Tornadoes – Medium**

**Waves - Extreme**

# HURRICANE IAN BRIEFING

9:00 AM EDT

Tuesday, September 27, 2022

Prepared by:

**Chris Landsea**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*





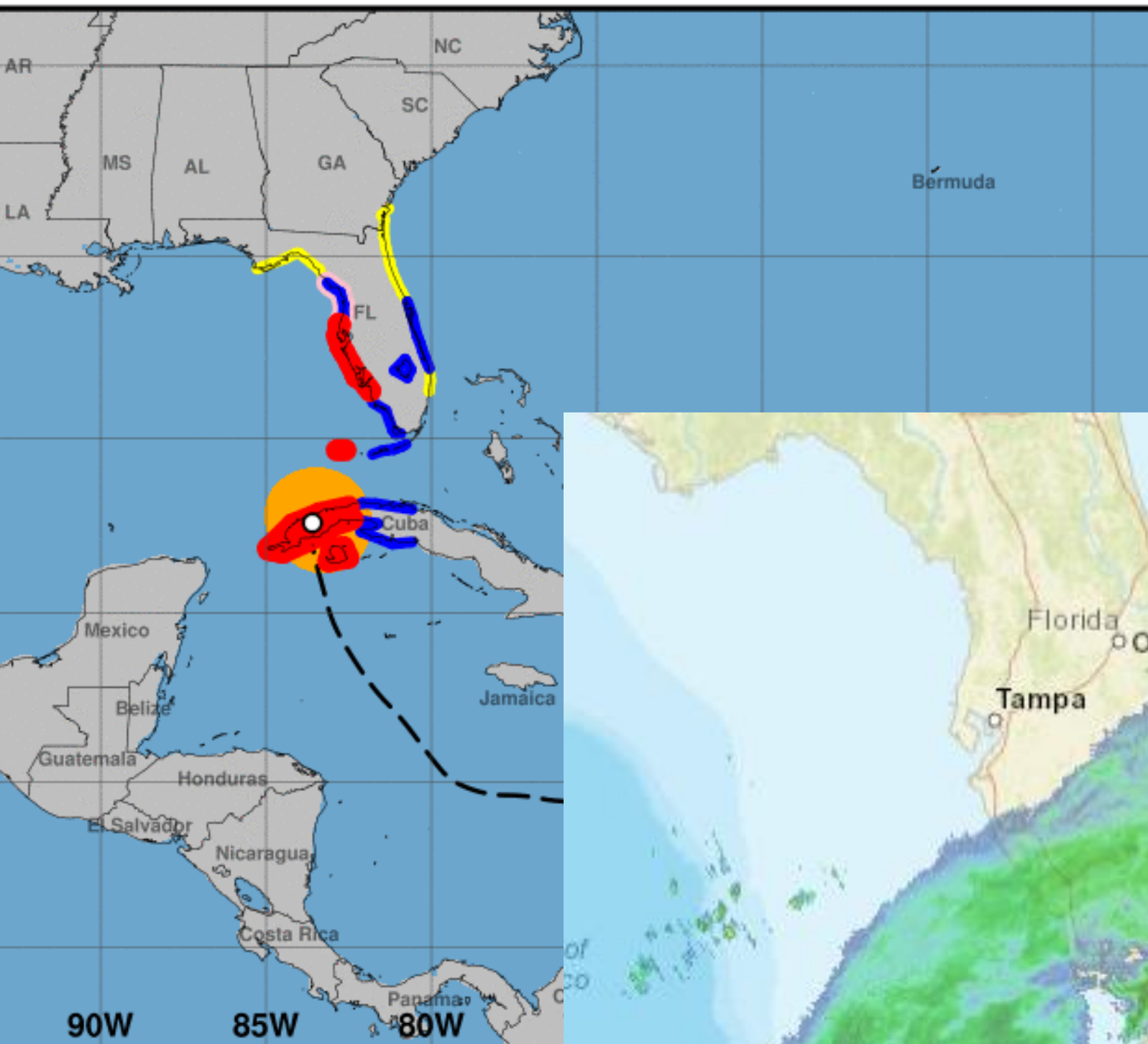
# Situation Overview

Hurricane Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Surface Wind Field of Hurricane Ian  
as of 800 AM EDT Tue Sep 27, 2022 Advisory Number 17A



**...IAN BATTERING WESTERN CUBA WITH HIGH WINDS AND LIFE-THREATENING STORM SURGE...**

## SUMMARY OF 800 AM EDT INFORMATION

LOCATION...22.6N 83.6W  
ABOUT 110 NM SSW OF THE DRY TORTUGAS  
MAXIMUM SUSTAINED WINDS...110 KT  
PRESENT MOVEMENT...N AT 11 KT  
PEAK SEAS 26 FT

## SIZE

64 KT..... 30NE 25SE 20SW 20NW.  
50 KT..... 50NE 50SE 30SW 40NW.  
34 KT..... 100NE 100SE 70SW 90NW.  
12 FT SEAS.. 150NE 150SE 90SW 90NW.

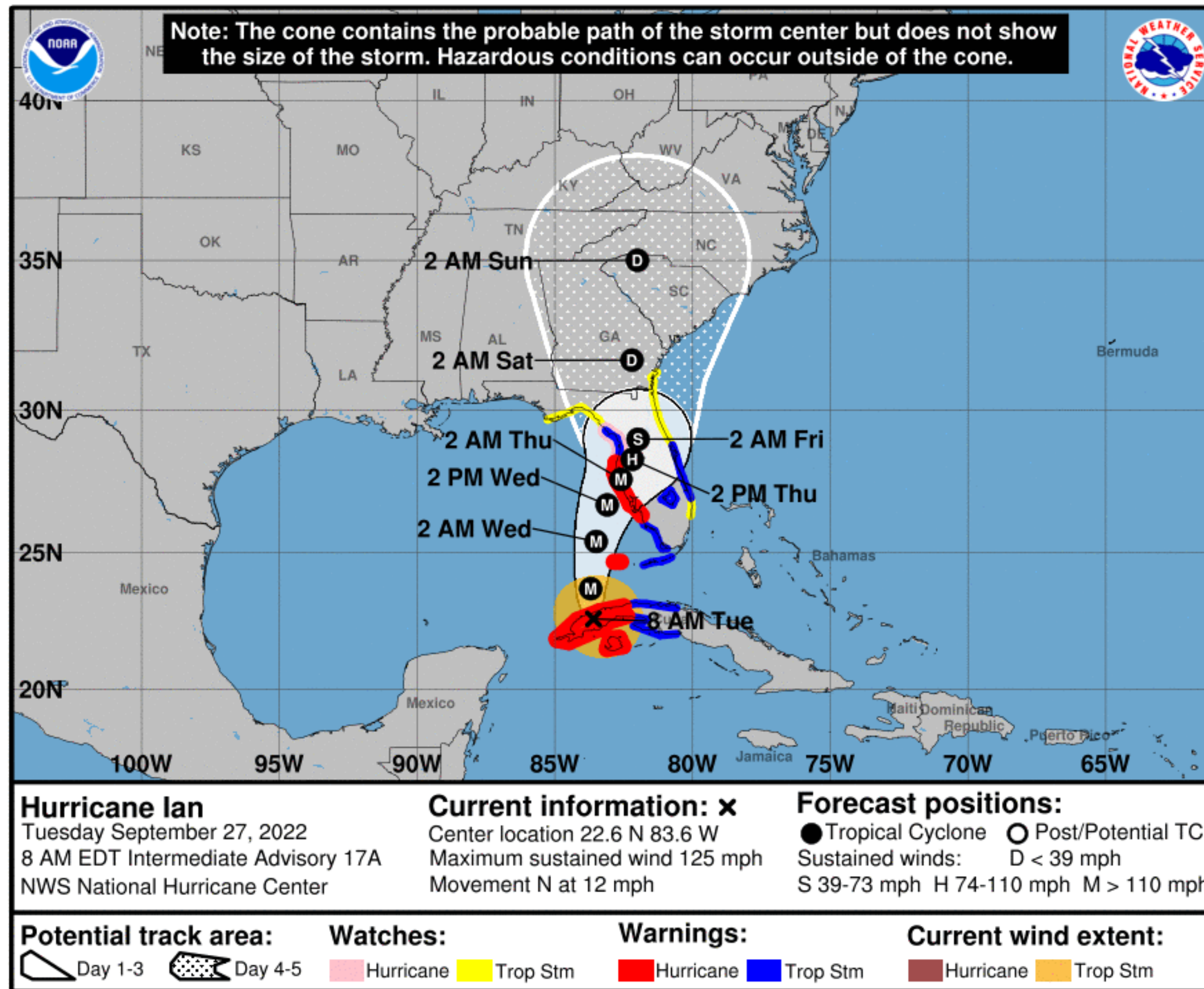


# Forecast Information

## Hurricane Ian



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NWS National Hurricane Center



- Ian will continue toward the north with a slightly slower forward speed today, then turn NNE while slowing down on Wed
- Ian is expected to make landfall along the west coast of Florida peninsula along the coast from Sarasota to Tampa
- Track confidence is growing in the first 48 hours, although the roughly-parallel track makes it difficult to pinpoint exactly which areas will experience the most severe impacts
- Ian is expected to slow down as it nears the west-central Florida coast – this would prolong the storm surge, wind, and rainfall impacts along the affected portions of the west coast of Florida
- 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.

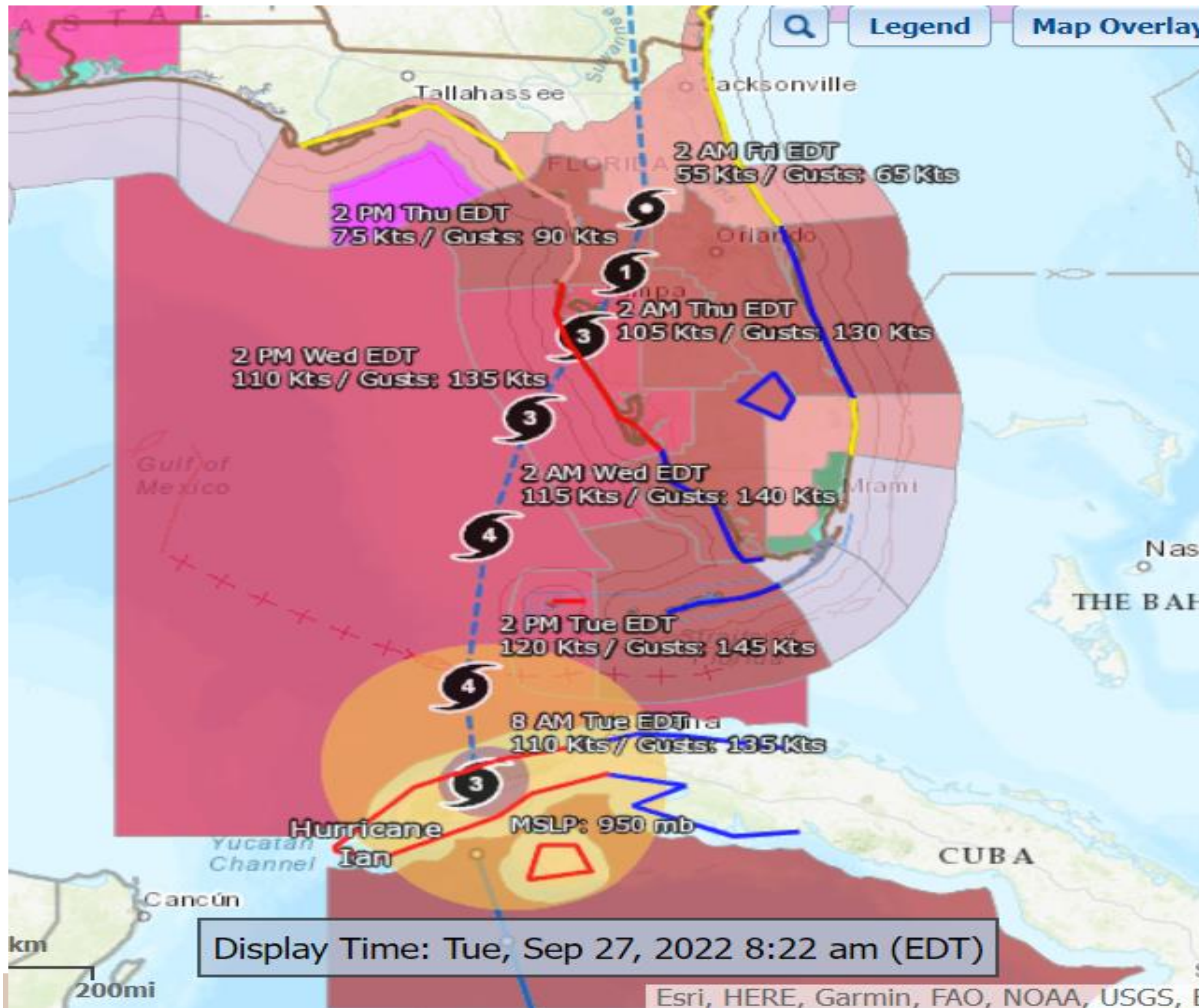


# Hazards Map

Hurricane Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



■ <https://nowcoast.noaa.gov/>

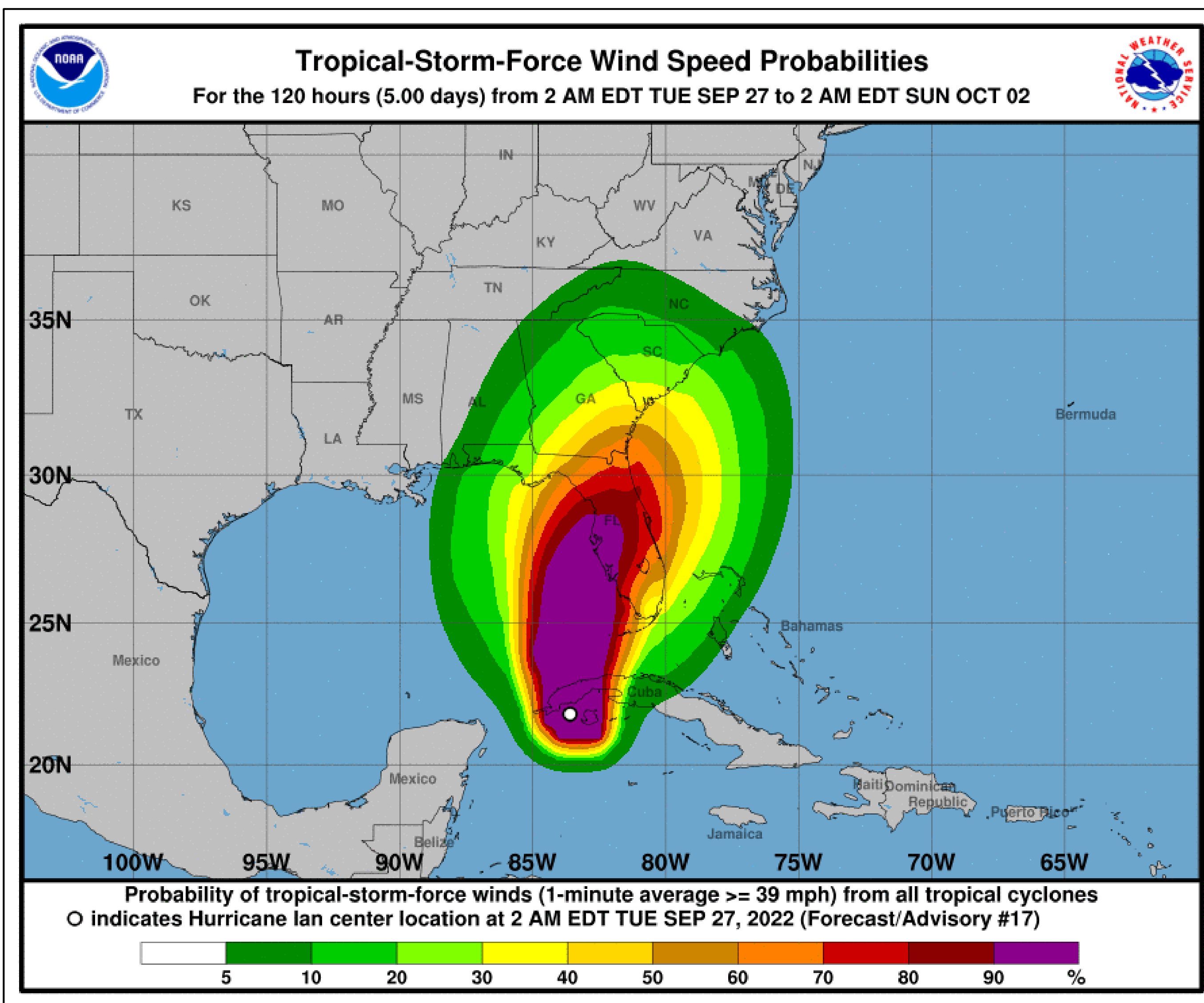


# T.S. Wind Speed Probabilities

Hurricane Ian



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- COLUMBIA – 20%
- CHARLESTON - 40%
- BEAUFORT - 45%
- SAVANNAH – 45%
- KINGS BAY 70%
- MAYPORT – 75%
- JACKSONVILLE – 65%
- DAYTONA BEACH - 75%
- COCOA BEACH – 80%
- PATRICK AFB - 80%
- FT PIERCE FL – 70%
- W PALM BEACH – 60%
- FT. LAUDERDALE – 50%
- MIAMI FL - 40%
- HOMESTEAD ARB – 35%
- MARATHON FL - 50%
- KEY WEST FL – 80%
- NAPLES FL - 90%
- FT MYERS FL - 90%
- VENICE FL - 100%
- TAMPA FL - 95%
- CEDAR KEY – 80%
- ST MARKS FL – 40%
- APALACHICOLA – 40%
- PANAMA CITY FL - 30%

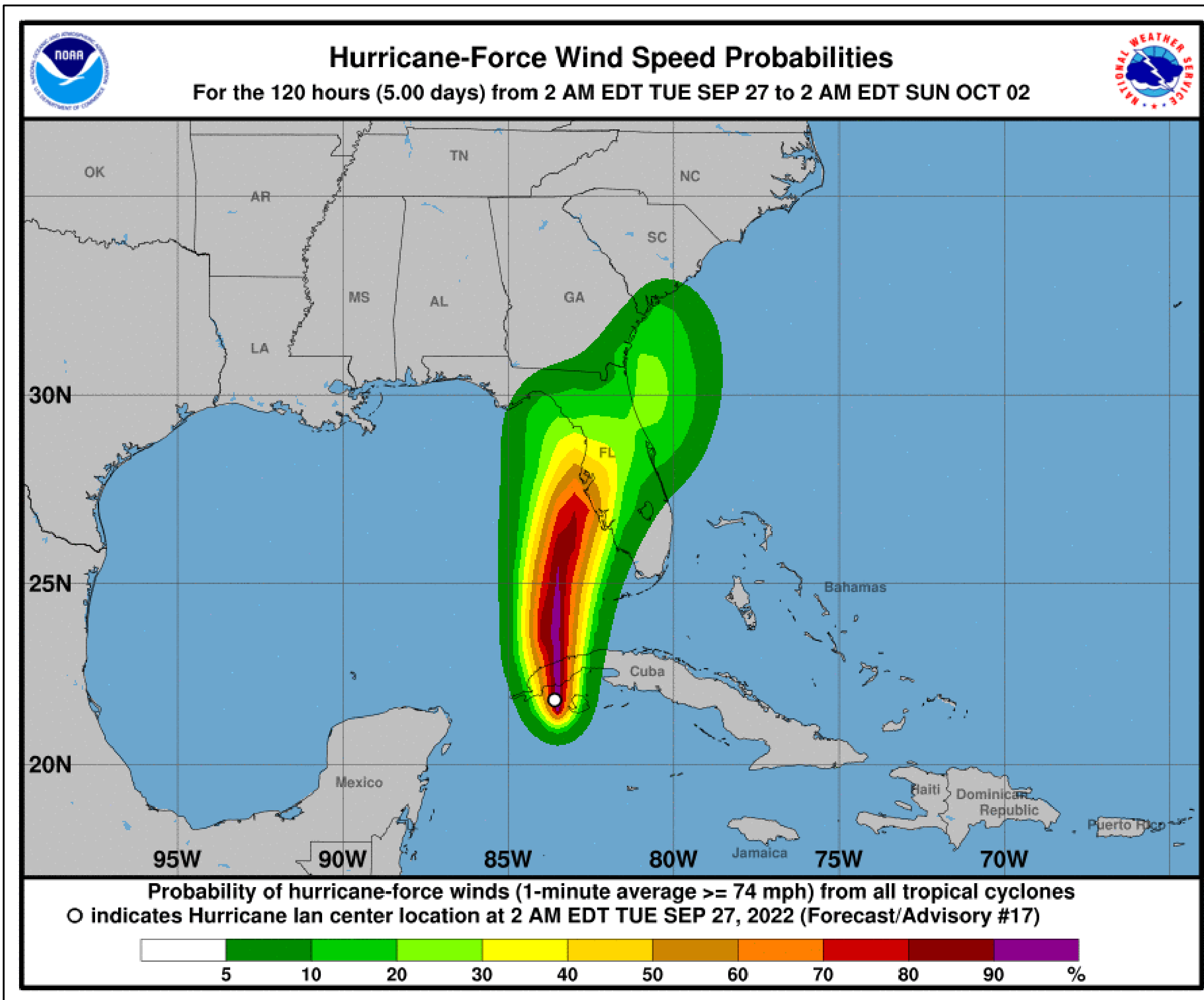
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color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

# Hurricane Wind Speed Probabilities



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Hurricane Ian

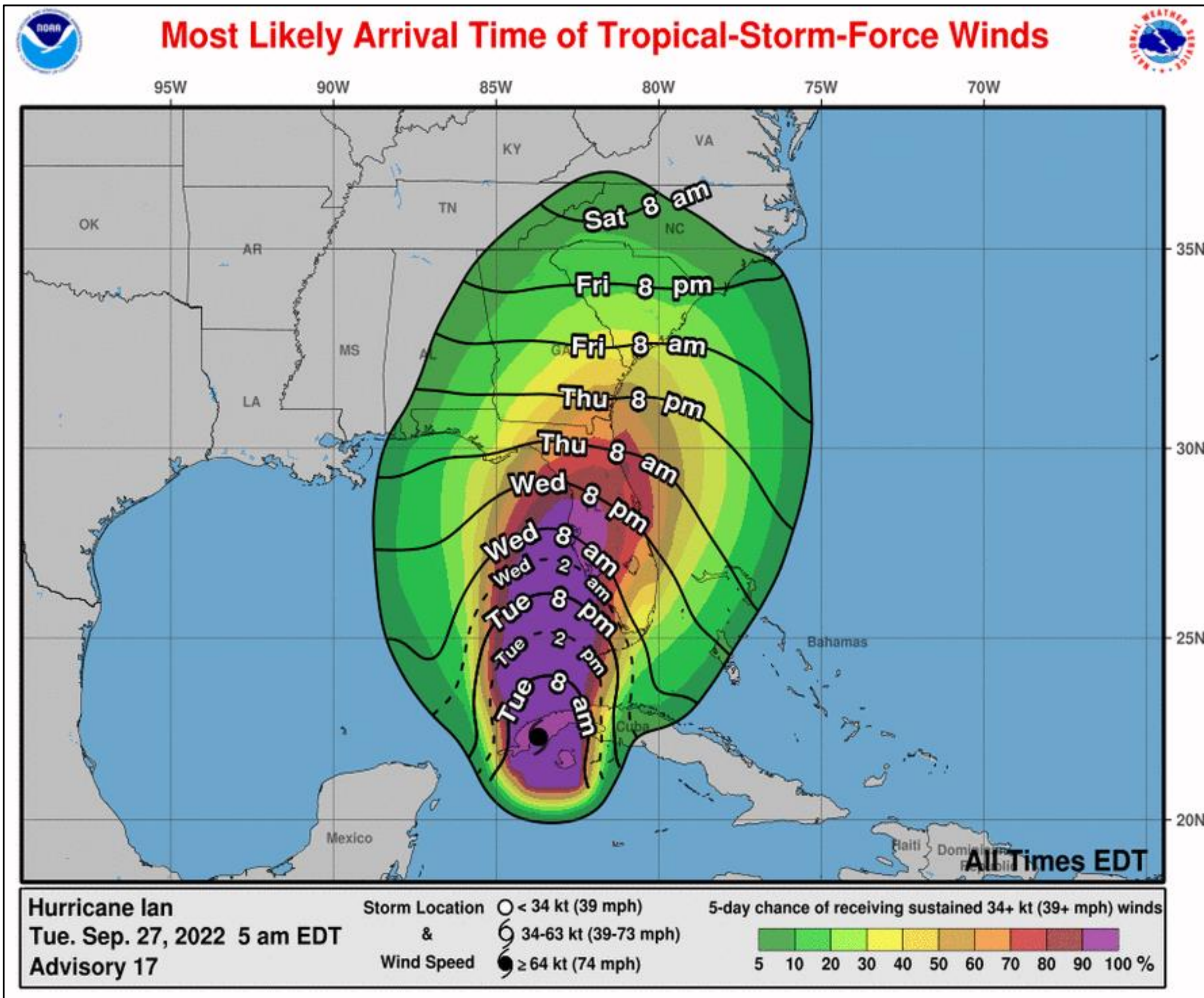


- **BEAUFORT – 10%**
- **KINGS BAY – 20%**
- **MAYPORT – 20%**
- JACKSONVILLE – 10%
- **DAYTONA BEACH - 20%**
- COCOA BEACH – 15%
- PATRICK AFB - 15%
  
- **NAPLES – 20%**
- **FT MYERS – 25%**
- **VENICE – 60%**
- **TAMPA – 50%**
- **CEDAR KEY – 25%**
  
- Probabilities of sustained hurricane force winds (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



- **Florida Keys – This afternoon**
- **Ft. Myers/Sarasota – Tonight**
- **Tampa to Ft. Lauderdale – Wednesday morning**
- **Big Bend to Daytona Beach/Jacksonville – Thursday morning**
- **Georgia 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.

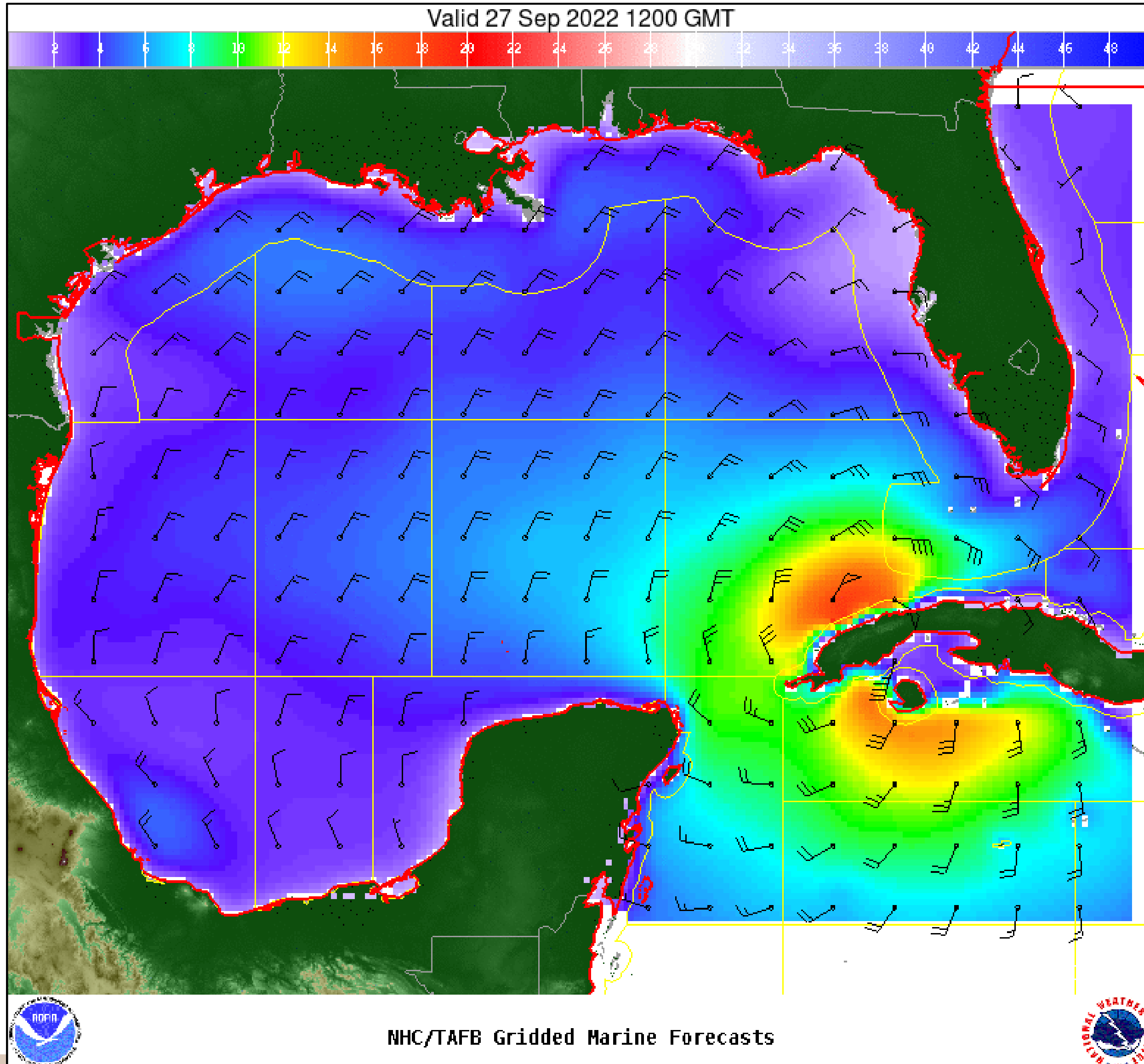


# Wind And Waves

Hurricane Ian



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NWS National Hurricane Center



## Current Conditions

8am EDT Tuesday, September 27th

Peak Winds: 110 kt

Peak Seas: 26'

■ Wave heights are in feet



Significant Wave Height (ft)

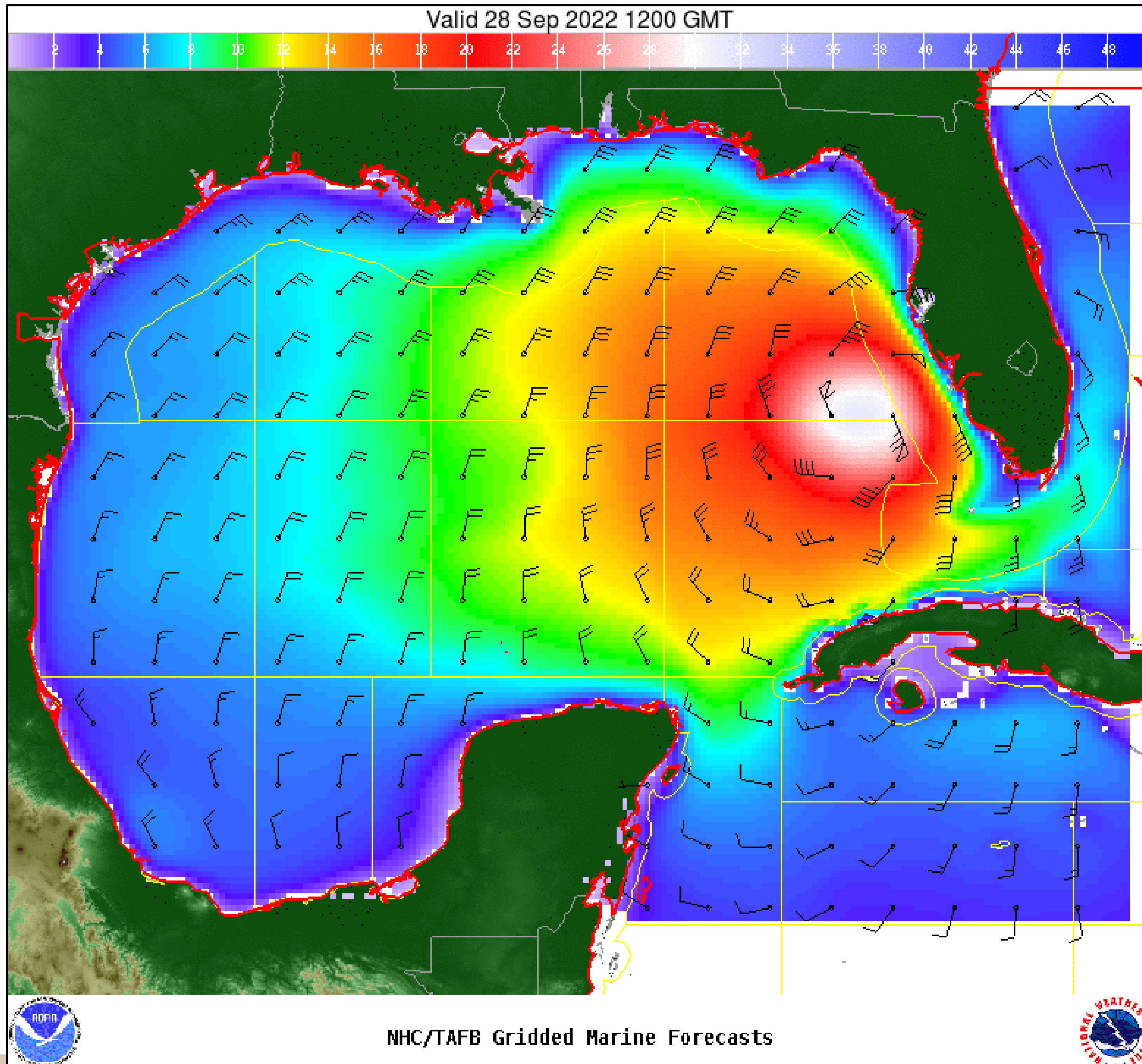


# Wind And Waves

Hurricane Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



## 24 Hour Forecast

8am EDT Wednesday September 28

Peak Winds: 115 kt

Peak Seas: 35 ft

■ Wave heights are in feet



Significant Wave Height (ft)

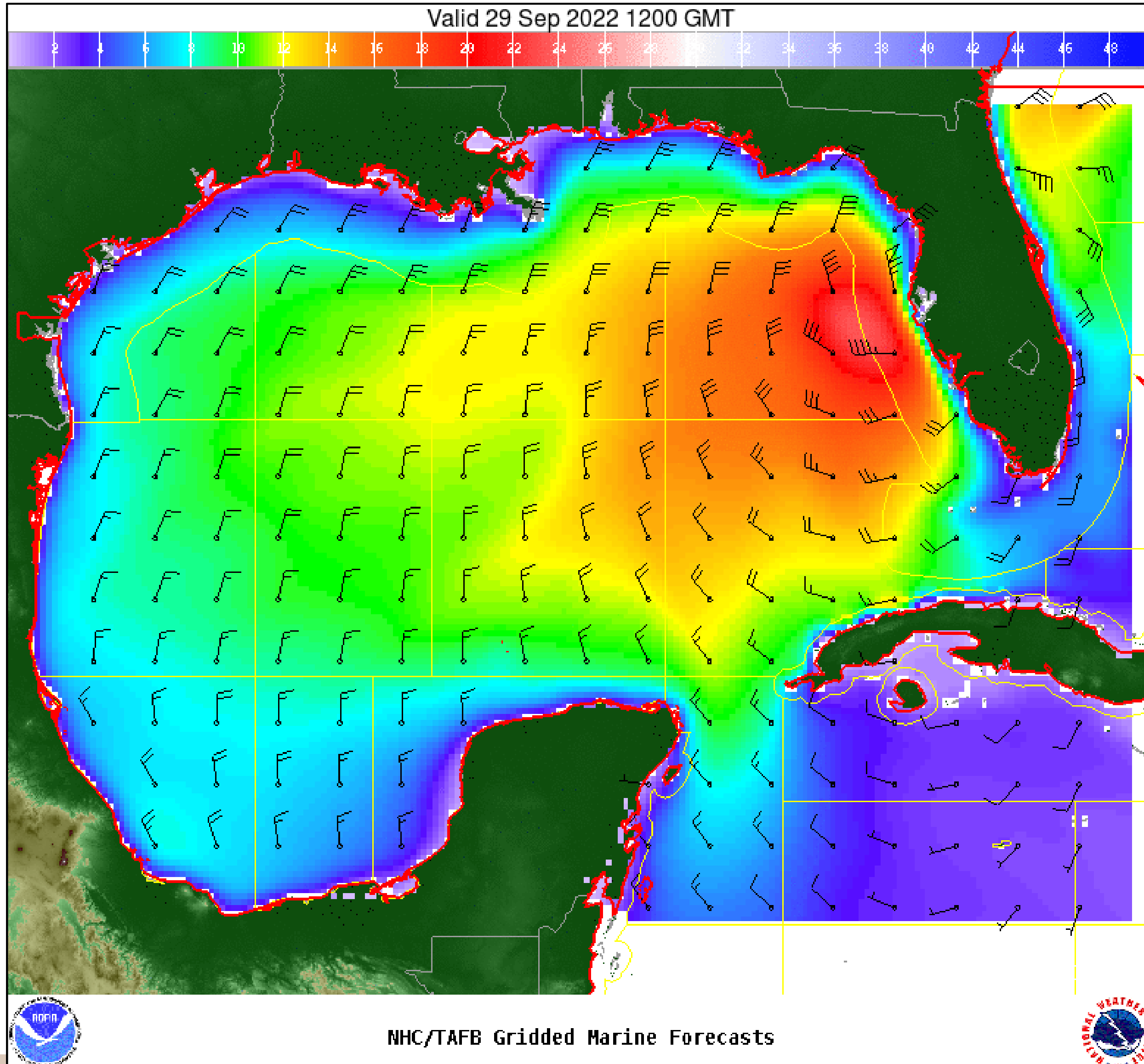


# Wind And Waves

Hurricane Ian



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NWS National Hurricane Center



48 Hour Forecast  
8am EDT Thursday September 29  
Peak Winds: 105 kt  
Peak Seas: 33 ft

■ Wave heights are in feet



Significant Wave Height (ft)

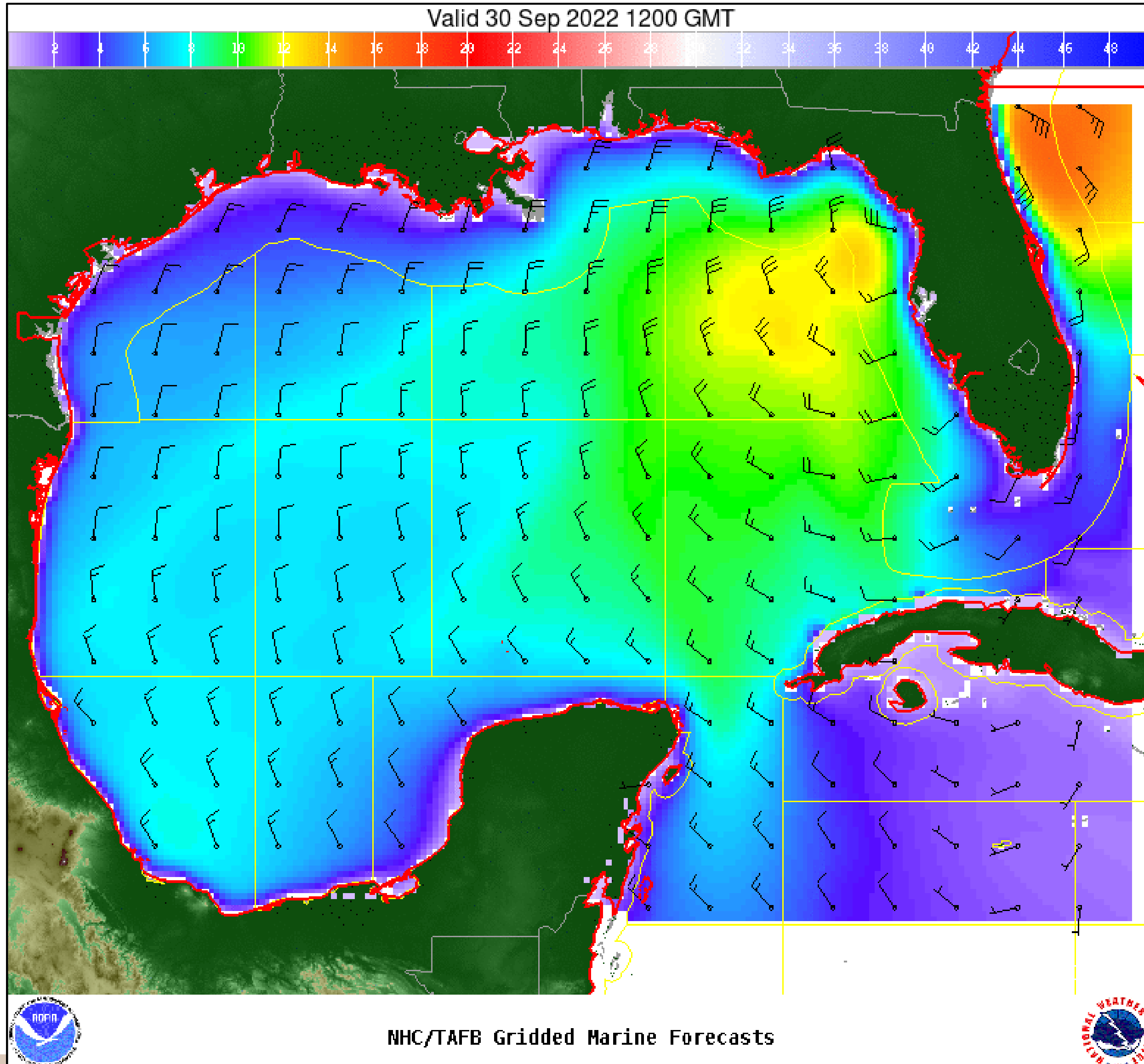


# Wind And Waves

Hurricane Ian



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72 Hour Forecast

8am EDT Friday September 30th

Peak Winds: 55 kt

Peak Seas: 15 ft

■ Wave heights are in feet



Significant Wave Height (ft)

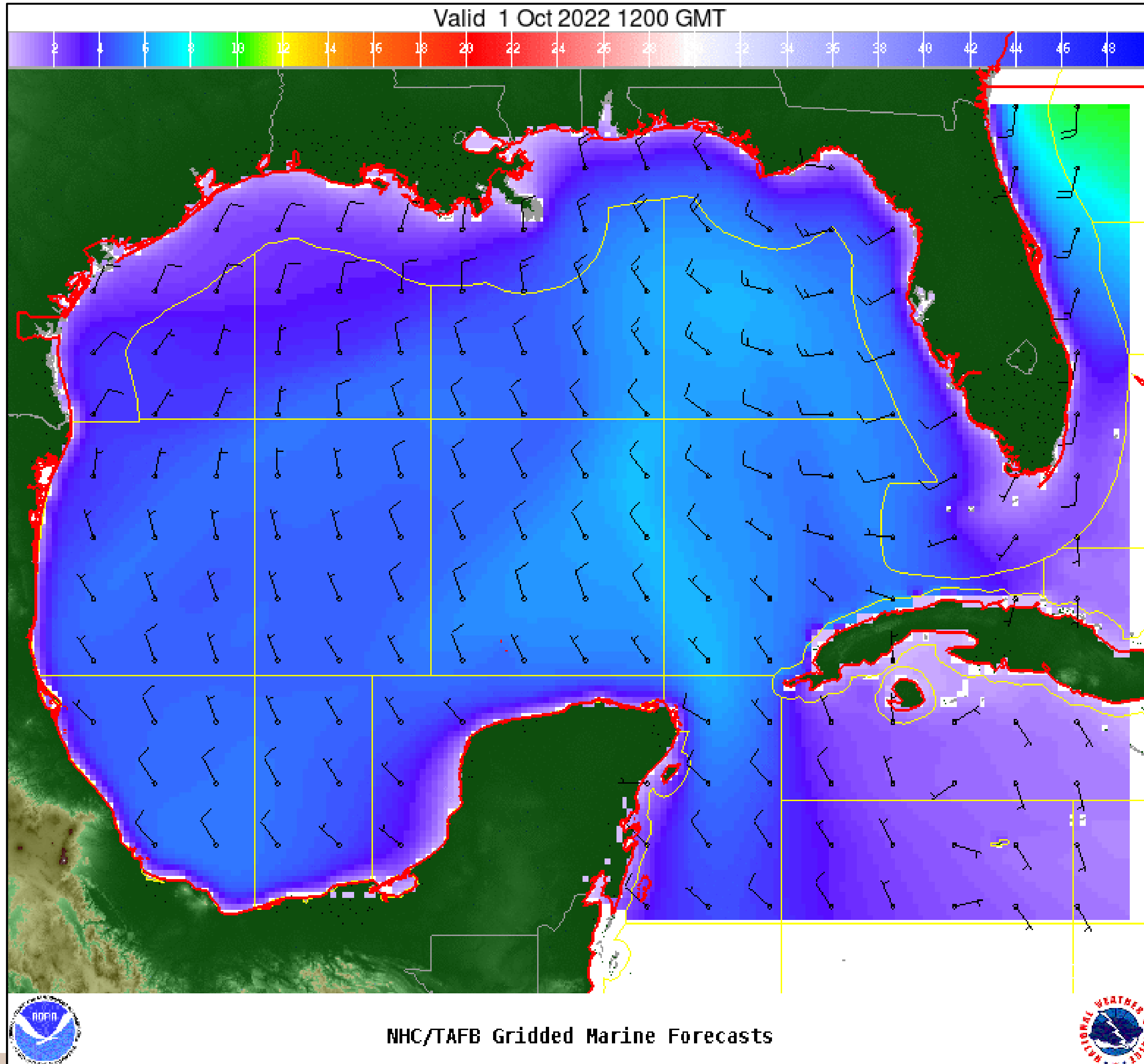


# Wind And Waves

Hurricane Ian



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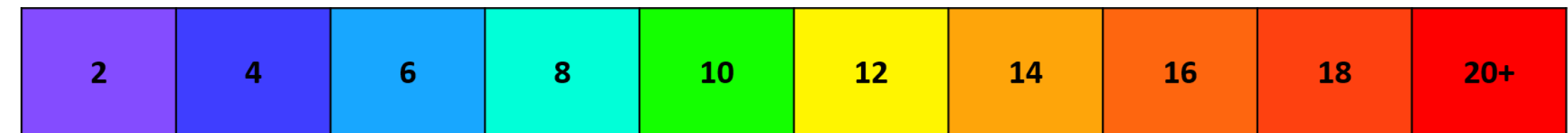
96 Hour Forecast

8am EDT Saturday October 1st

Peak Winds: 25 kt

Peak Seas: 12 ft

■ Wave heights are in feet



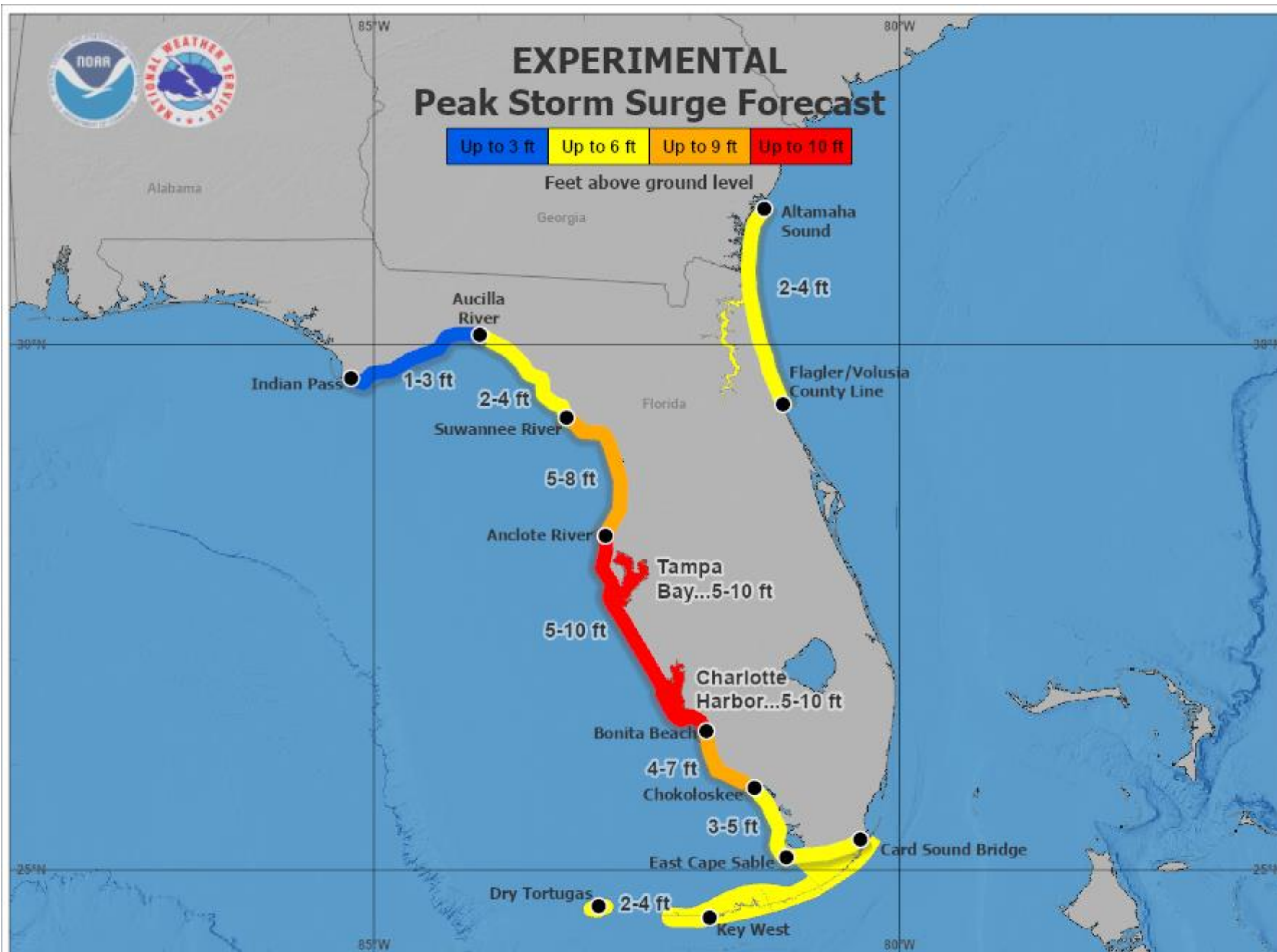
Significant Wave Height (ft)

# Potential Peak Storm Surge



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NWS National Hurricane Center

Hurricane Ian



Hurricane Ian  
Tuesday September 27, 2022  
08 AM EDT Advisory 17A  
NWS National Hurricane Center

**User Notes:** Water levels along the immediate coast could reach the following heights above ground level within the indicated areas. Elevated water levels will likely be accompanied by large and destructive waves. Colors are determined by the highest values in the associated forecast peak surge range. Values shown on this graphic are inclusive of tide.

- 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.




# Storm Surge Watches and Warnings

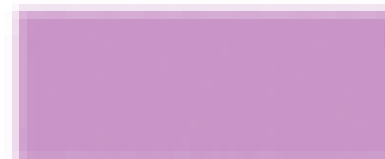


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NWS National Hurricane Center

Hurricane Ian



 Storm Surge Warning

 Storm Surge Watch

- A **Storm Surge Warning** is in effect for...  
Anclote River southward to Flamingo – including Tampa Bay

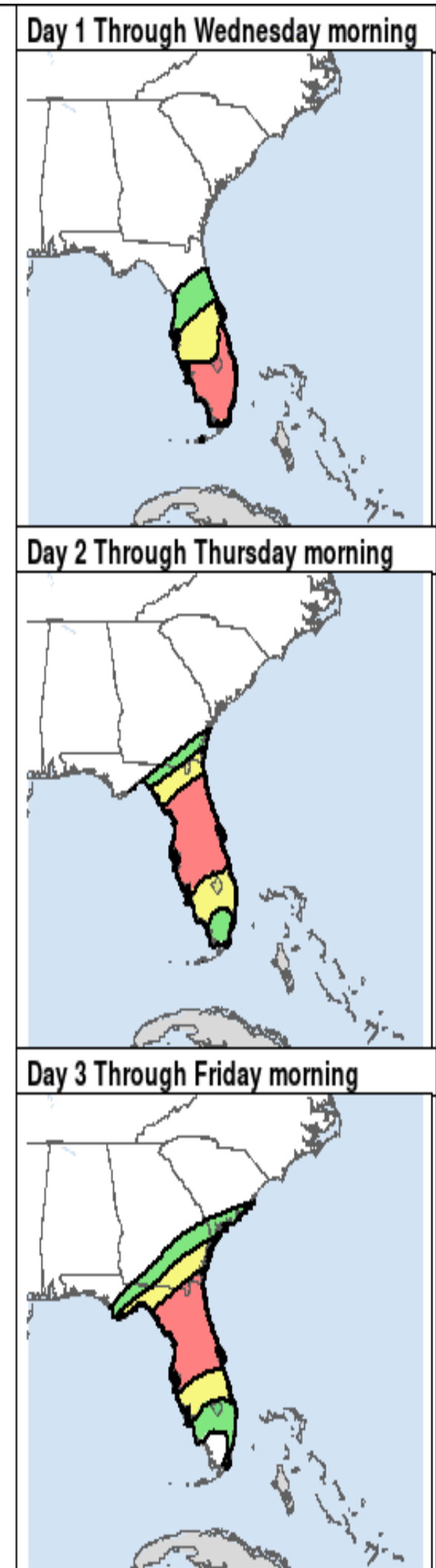
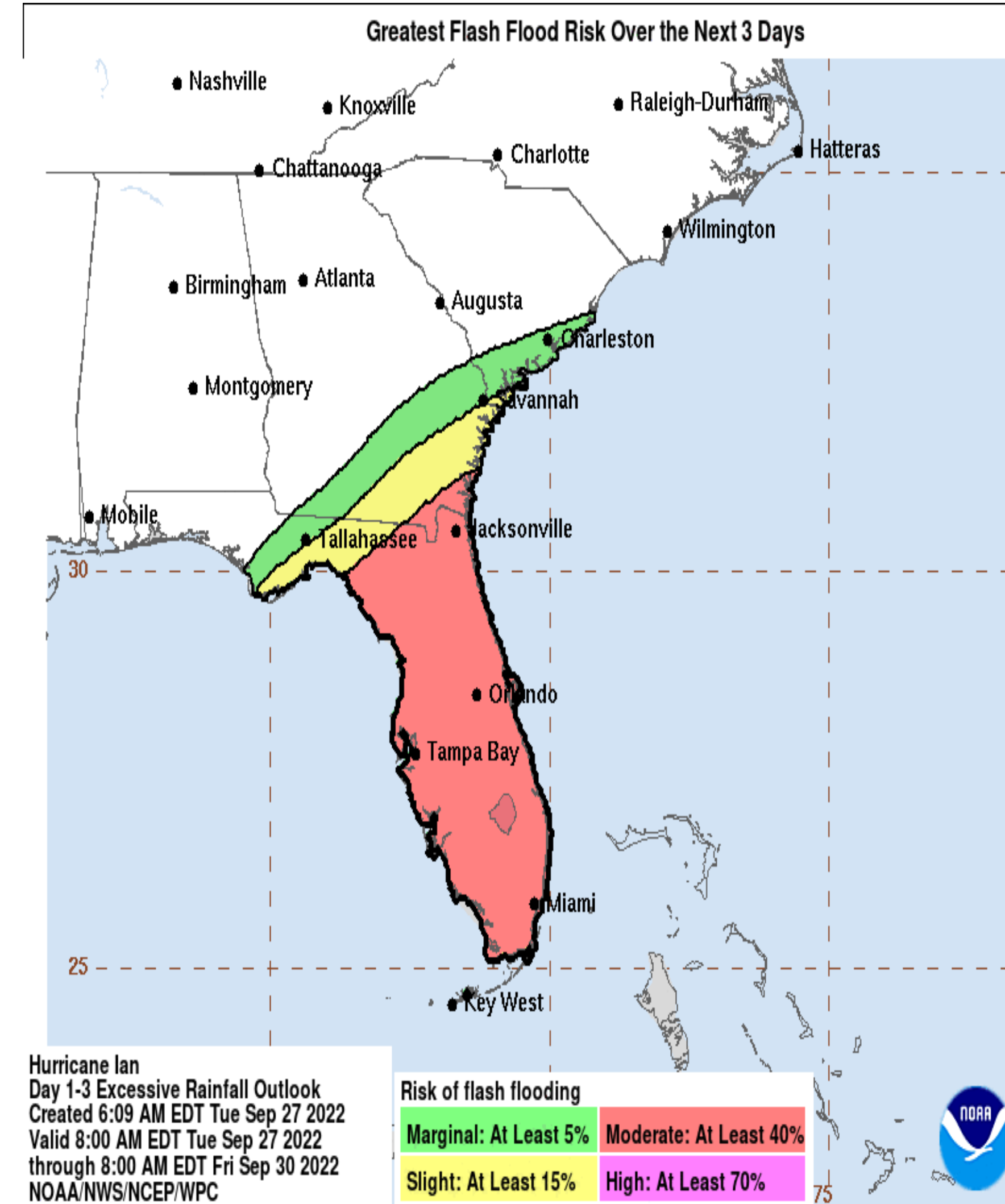
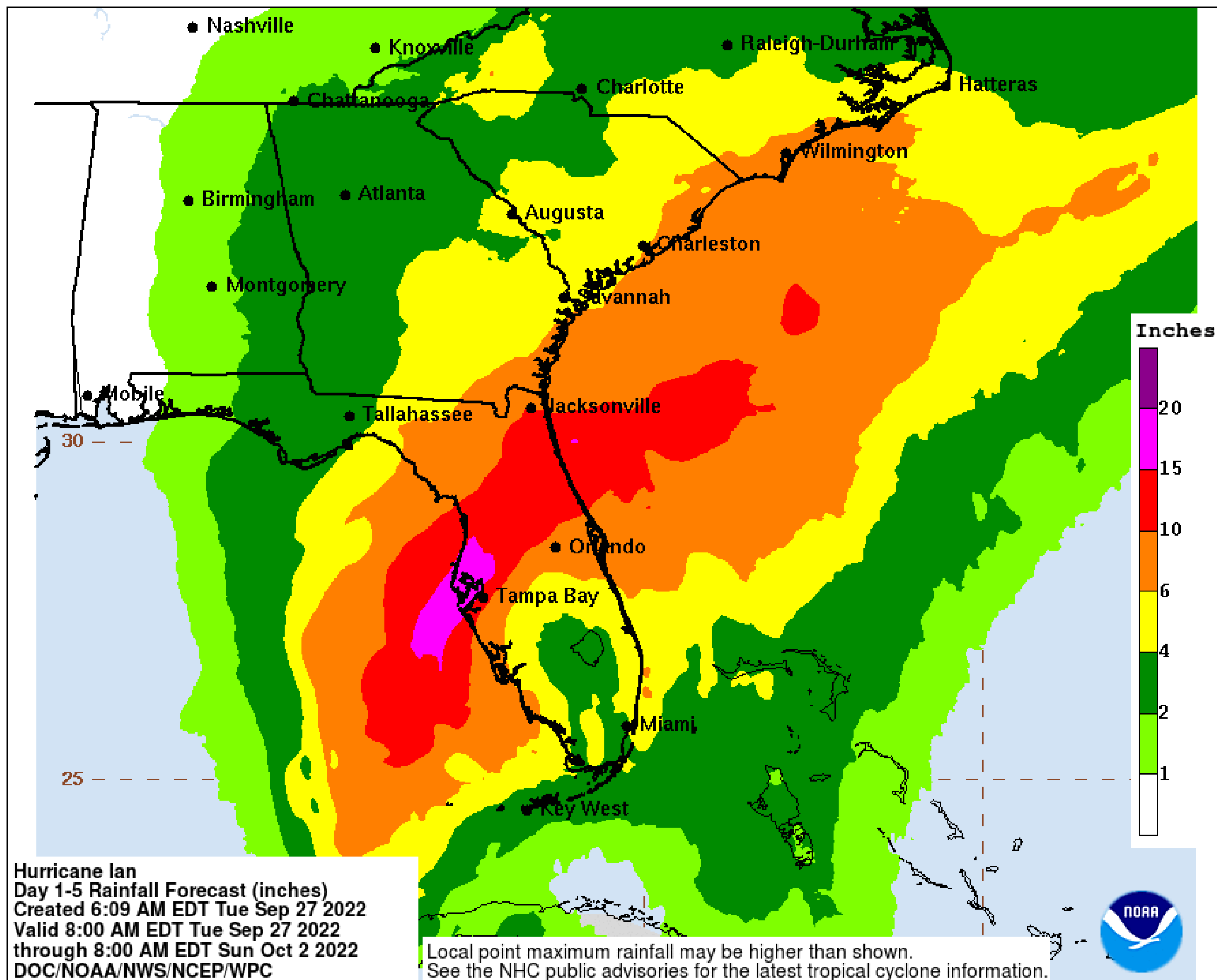
# Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Hurricane Ian

Images from NWS Weather Prediction Center



Valid through Sunday morning

Valid through Friday morning



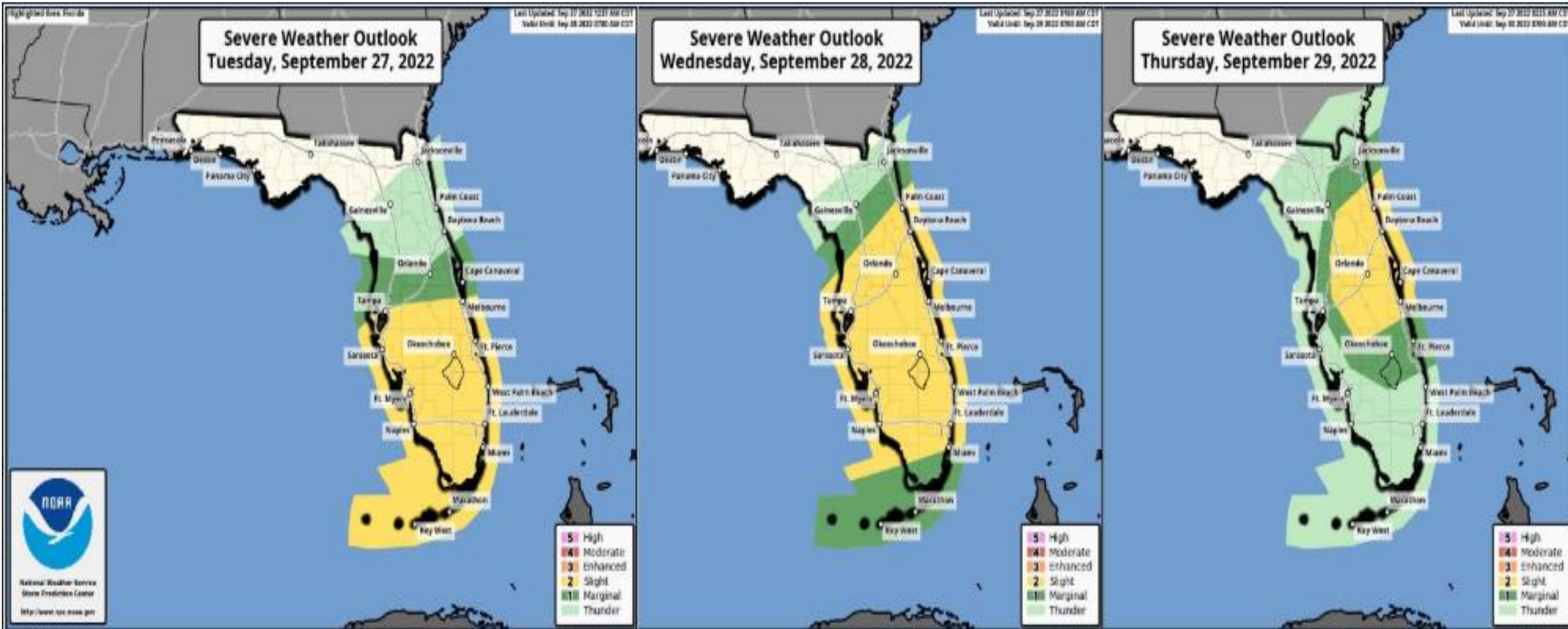
# Tornado Outlook

Hurricane Ian

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



Potential for Several Tornadoes in the area in yellow



# Key Messages

## Hurricane Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



### Key Messages for Hurricane Ian Advisory 17: 5:00 AM EDT Tue Sep 27, 2022



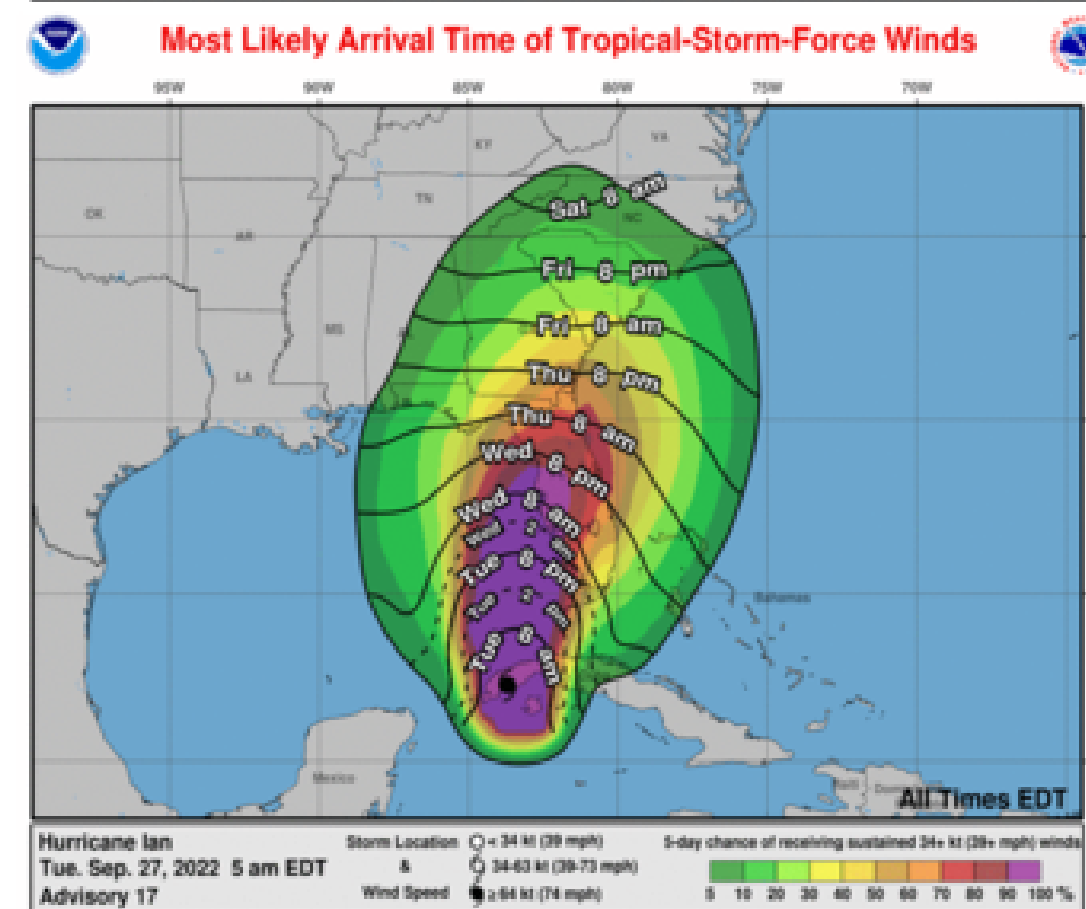
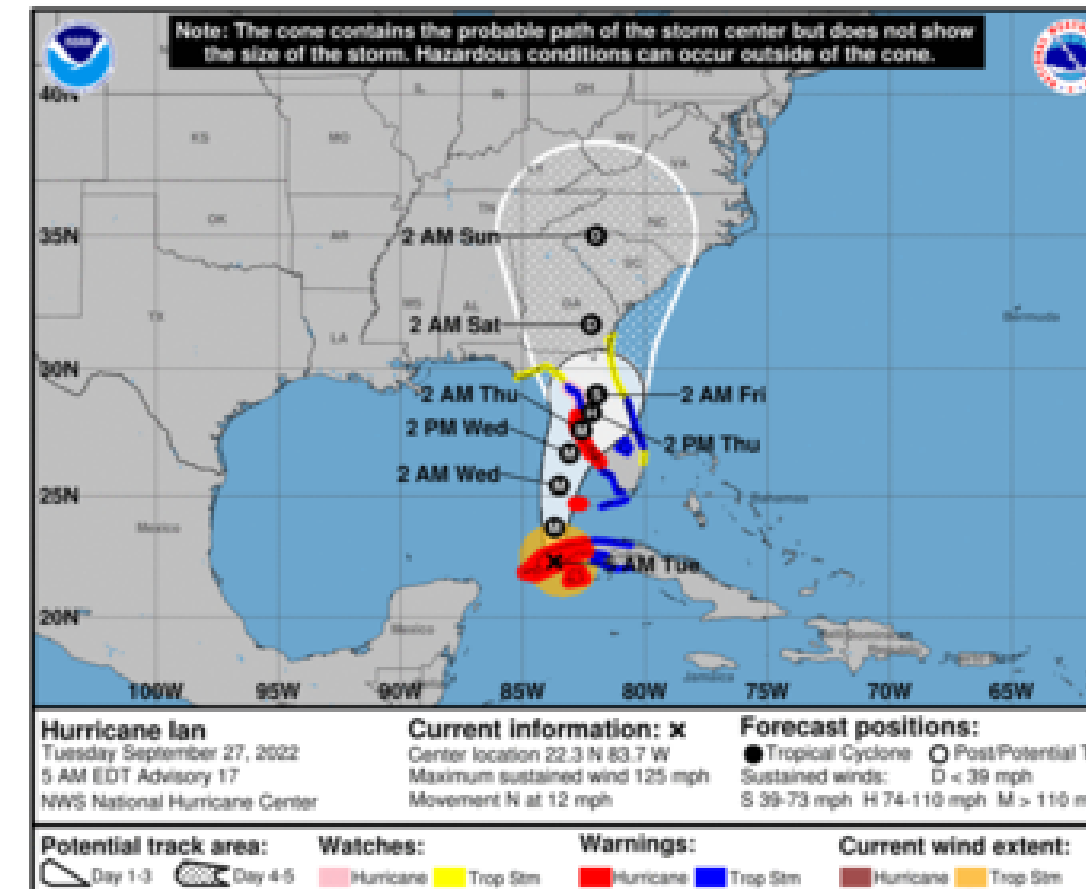
1. Life-threatening storm surge, hurricane-force winds, flash floods and possible mudslides are expected in portions of western Cuba today. Devastating wind damage is expected where the core of Ian moves across western Cuba this morning.

2. There is a danger of life-threatening storm surge along much of the Florida west coast where a storm surge warning has been issued, with the highest risk from Fort Myers to the Tampa Bay region. Residents in these areas should listen to advice given by local officials.

3. Hurricane-force winds are expected in the hurricane warning area in west-central Florida beginning Wednesday morning with tropical storm conditions expected by late today.

4. Heavy rainfall will spread across western Cuba through Tuesday. This will likely produce instances of flash flooding and possible mudslides in areas of higher terrain over western Cuba.

5. Heavy rainfall will increase across the Florida Keys and South Florida Tuesday, spreading into central to northern Florida Wednesday and Thursday, and the Southeast by Friday and Saturday, likely causing flash, urban, and small stream flooding. Considerable flooding is expected across Central Florida into southern Georgia and coastal South Carolina, with significant, prolonged river flooding expected across central to northern Florida.



For more information go to [hurricanes.gov](https://hurricanes.gov)

### IMPACTS FOR D7 (through next 5 days)

Winds – **Extreme**

Storm Surge – **Extreme**

Rainfall/Flash Flooding – **Extreme**

Tornadoes – **Medium**

Waves - **Extreme**

### • Marine Key Messages:

- Seas building rapidly in Florida Straights to 26 ft this morning
- Seas peaking near 35 ft tomorrow morning in SE Gulf of Mexico





# HURRICANE IAN BRIEFING

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

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

*You can always find get the latest graphics and information for this storm at [www.hurricanes.gov](http://www.hurricanes.gov)*

