

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

Wednesday, September 28, 2022

Prepared by:

Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

www.nhc.noaa.gov

Situation Overview

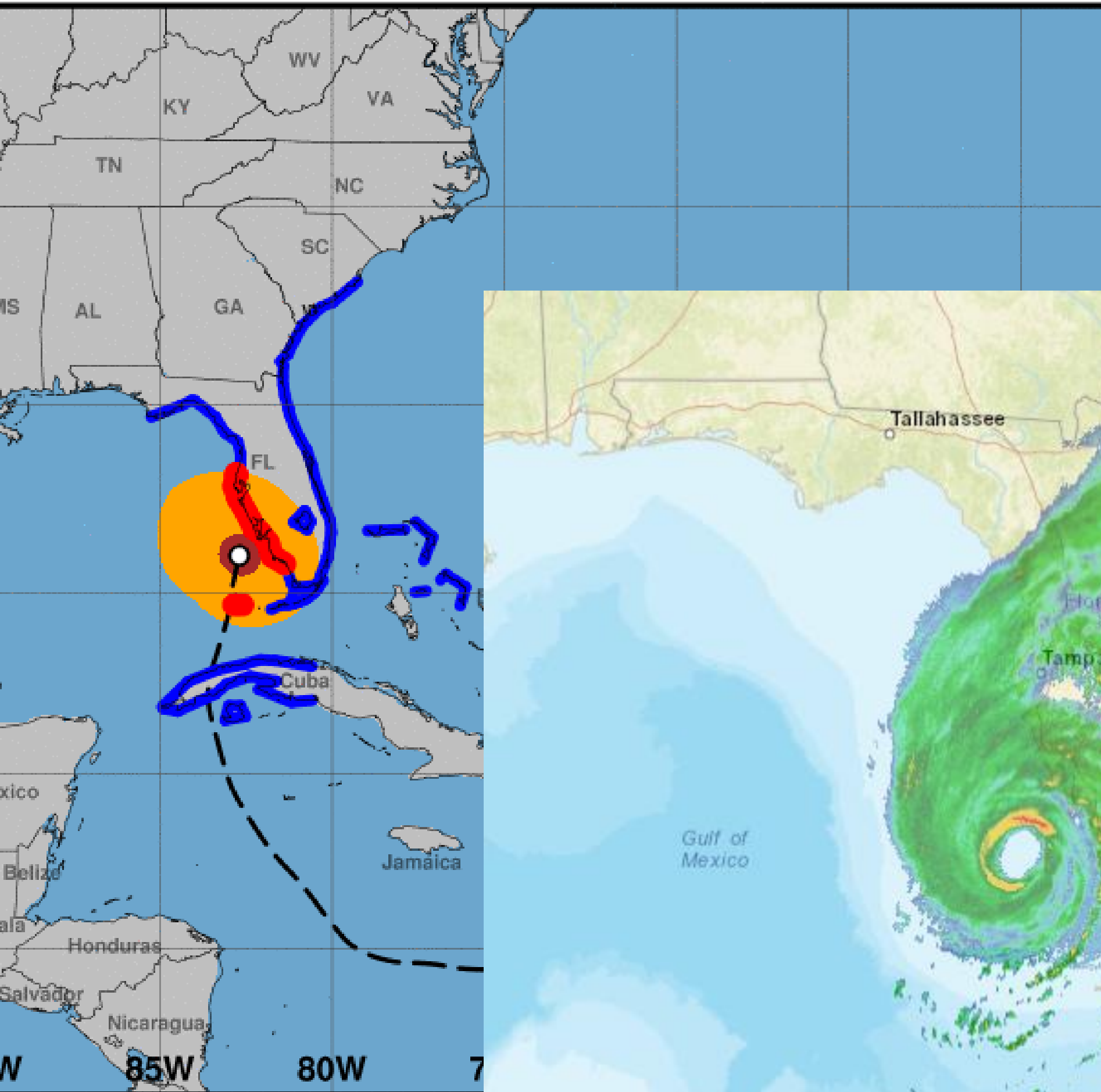
Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Surface Wind Field of Hurricane Ian

800 AM EDT Wed Sep 28, 2022 Advisory Number 23A



Legend:
Sustained
Hurricane
Tropical S



**...IAN EXPECTED TO CAUSE
CATASTROPHIC STORM SURGE, WINDS,
AND FLOODING IN THE FLORIDA
PENINSULA STARTING LATER TODAY...**

SUMMARY OF 800 AM EDT INFORMATION

LOCATION...26.0N 82.7W
ABOUT 50 NM W OF NAPLES FL
ABOUT 55 NM SW OF PUNTA GORDA FL
MAXIMUM SUSTAINED WINDS...135 KT
PRESENT MOVEMENT...NNE AT 9 KT
PEAK SEAS 30 FT

SIZE

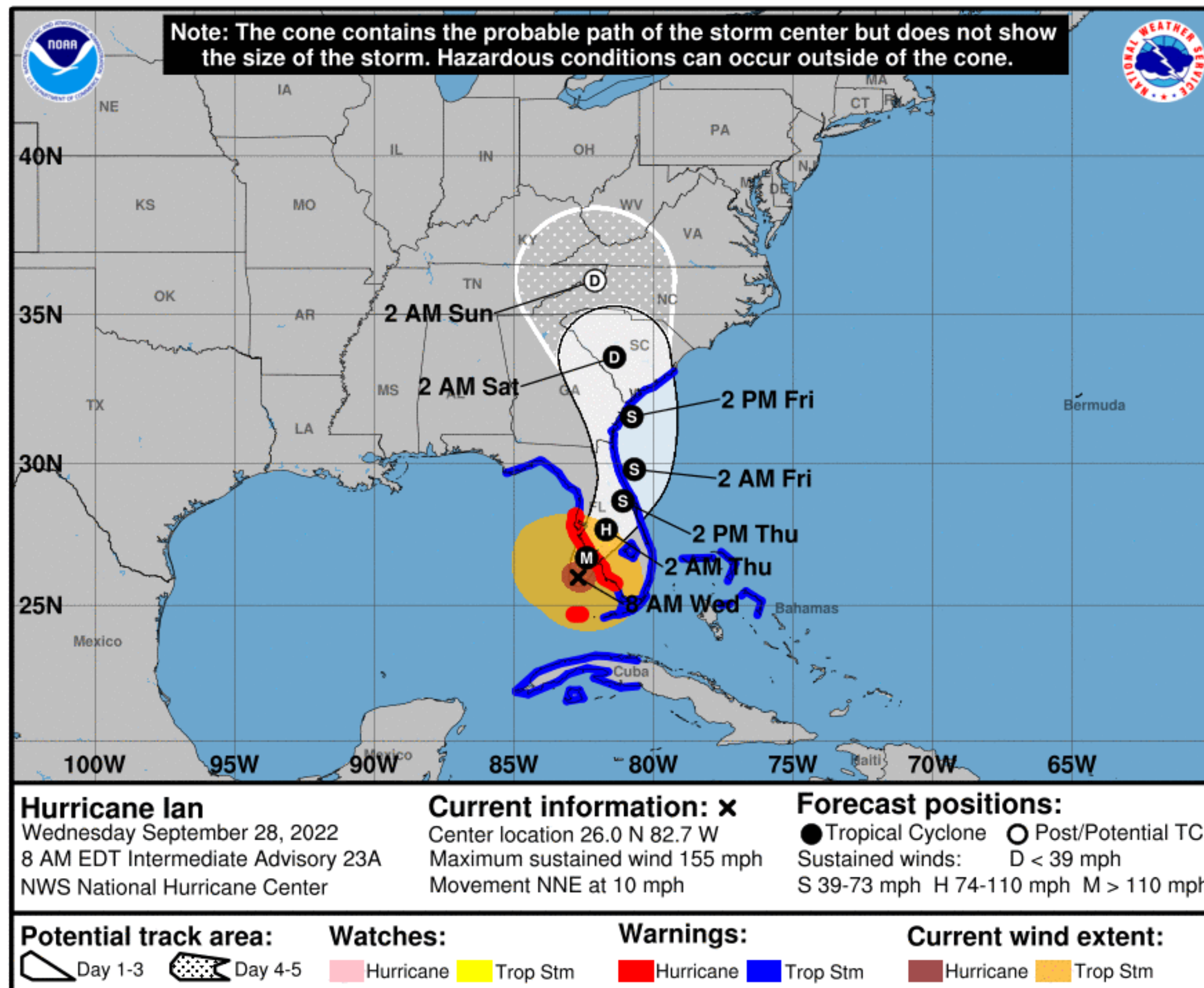
64 KT..... 35NE 35SE 30SW 35NW.
50 KT..... 70NE 60SE 60SW 70NW.
34 KT..... 120NE 130SE 100SW 150NW.
12 FT SEAS.. 120NE 120SE 270SW 210NW.

Forecast Information

Hurricane 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 will continue moving slowly to landfall later this afternoon or early this evening in the Ft. Myers/Charlotte Harbor coast as a Major Hurricane
- With Ian's slow speed, this prolongs the storm surge, wind, rainfall, and wave impacts along the affected portions of the Florida peninsula
- Ian is expected to re-emerge in the Atlantic as a tropical storm and make a second landfall over Georgia-South Carolina on Friday or Friday 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

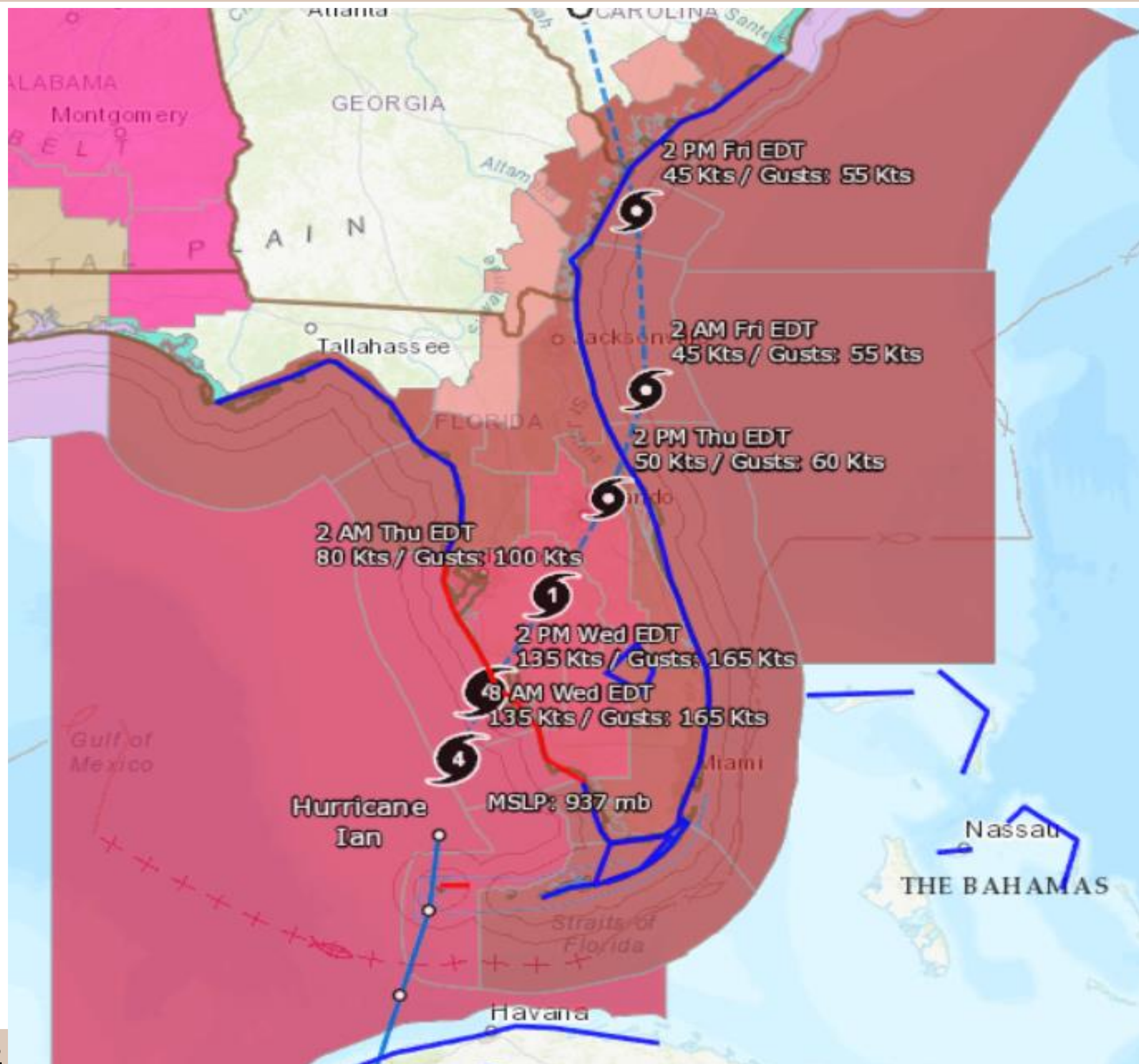
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Hurricane Ian



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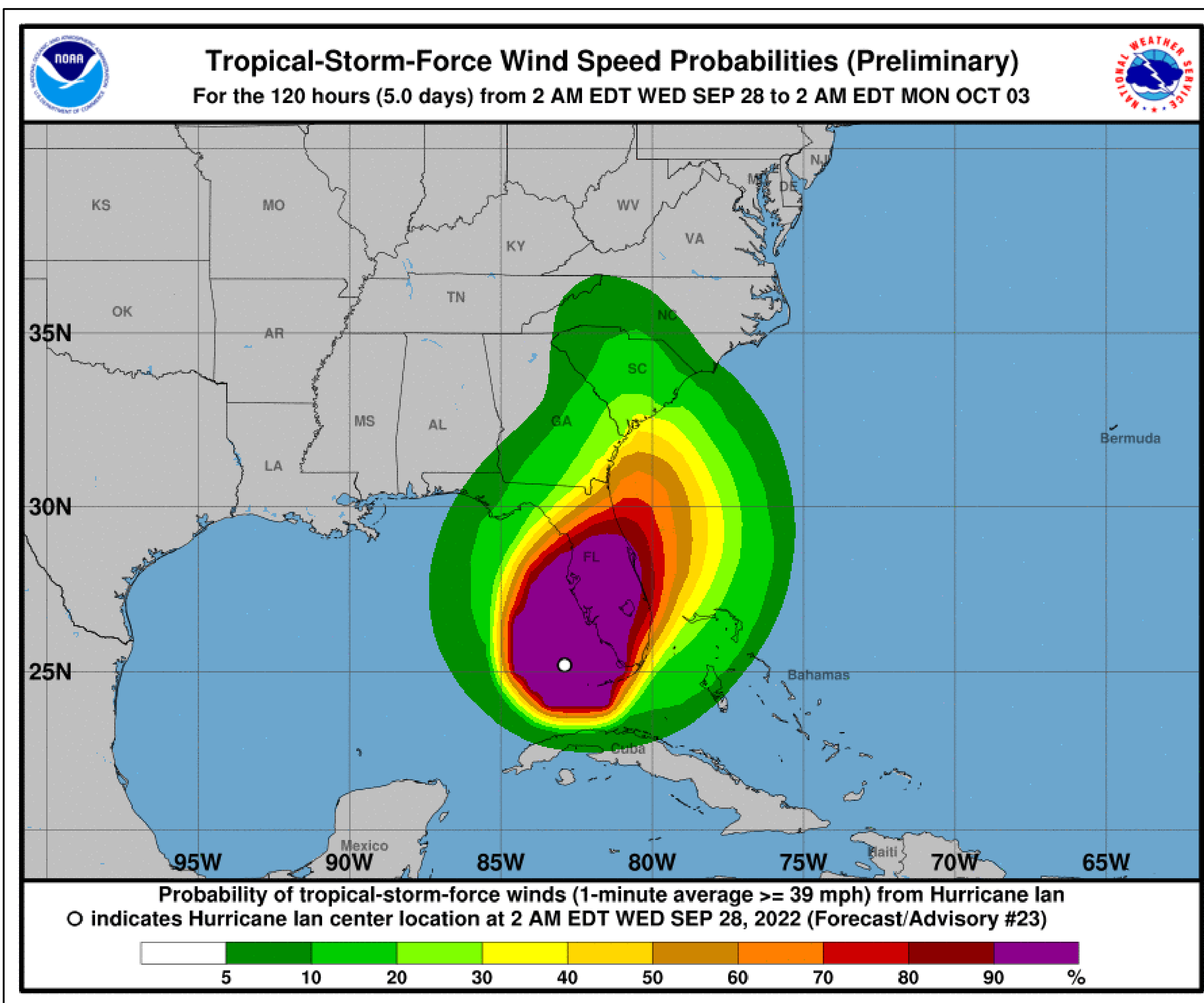
■ <https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Hurricane Ian



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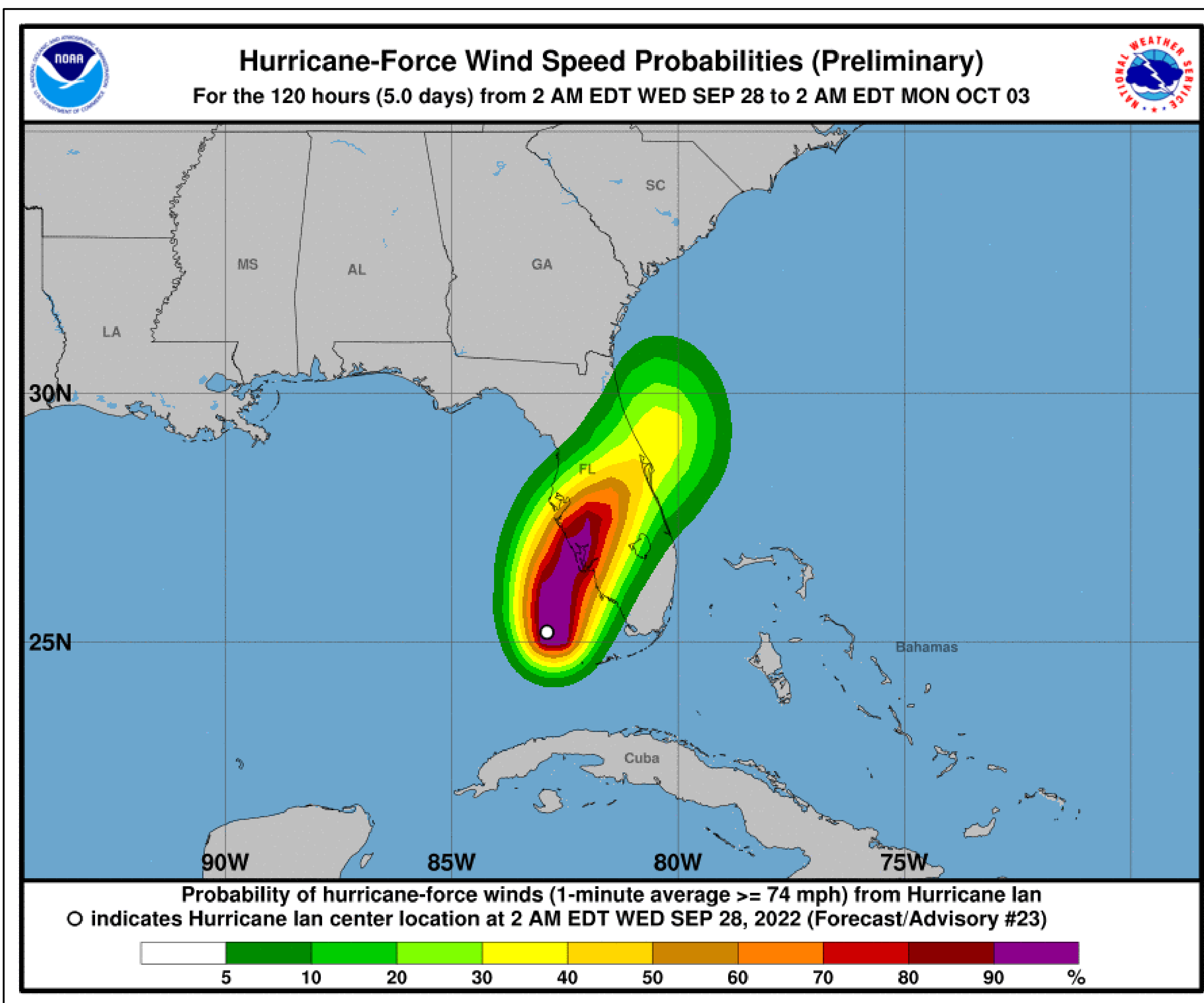
- **KEY WEST FL – 100%**
 - **NAPLES FL – 100%**
 - **FT MYERS FL – 100%**
 - **VENICE FL – 100%**
 - **TAMPA FL – 100%**
 - **CEDAR KEY – 70%**
 - **CHARLESTON – 30%**
 - **BEAUFORT – 35%**
 - **SAVANNAH – 25%**
 - **KINGS BAY – 55%**
 - **MAYPORT – 60%**
 - **JACKSONVILLE – 45%**
 - **DAYTONA BEACH – 85%**
 - **COCOA BEACH – 90%**
 - **PATRICK AFB – 90%**
 - **FT PIERCE – 90%**
 - **W PALM BEACH – 80%**
 - **FT. LAUDERDALE – 70%**
 - **MIAMI FL – 60%**
 - **HOMESTEAD ARB – 50%**
 - **MARATHON FL – 100%**
- 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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- **DAYTONA BEACH - 25%**
- **COCOA BEACH - 35%**
- **PATRICK AFB - 35%**
- **FT PIERCE - 15%**

- **NAPLES - 35%**
- **FT MYERS - 70%**
- **VENICE - 85%**
- **TAMPA - 30%**

- 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%.

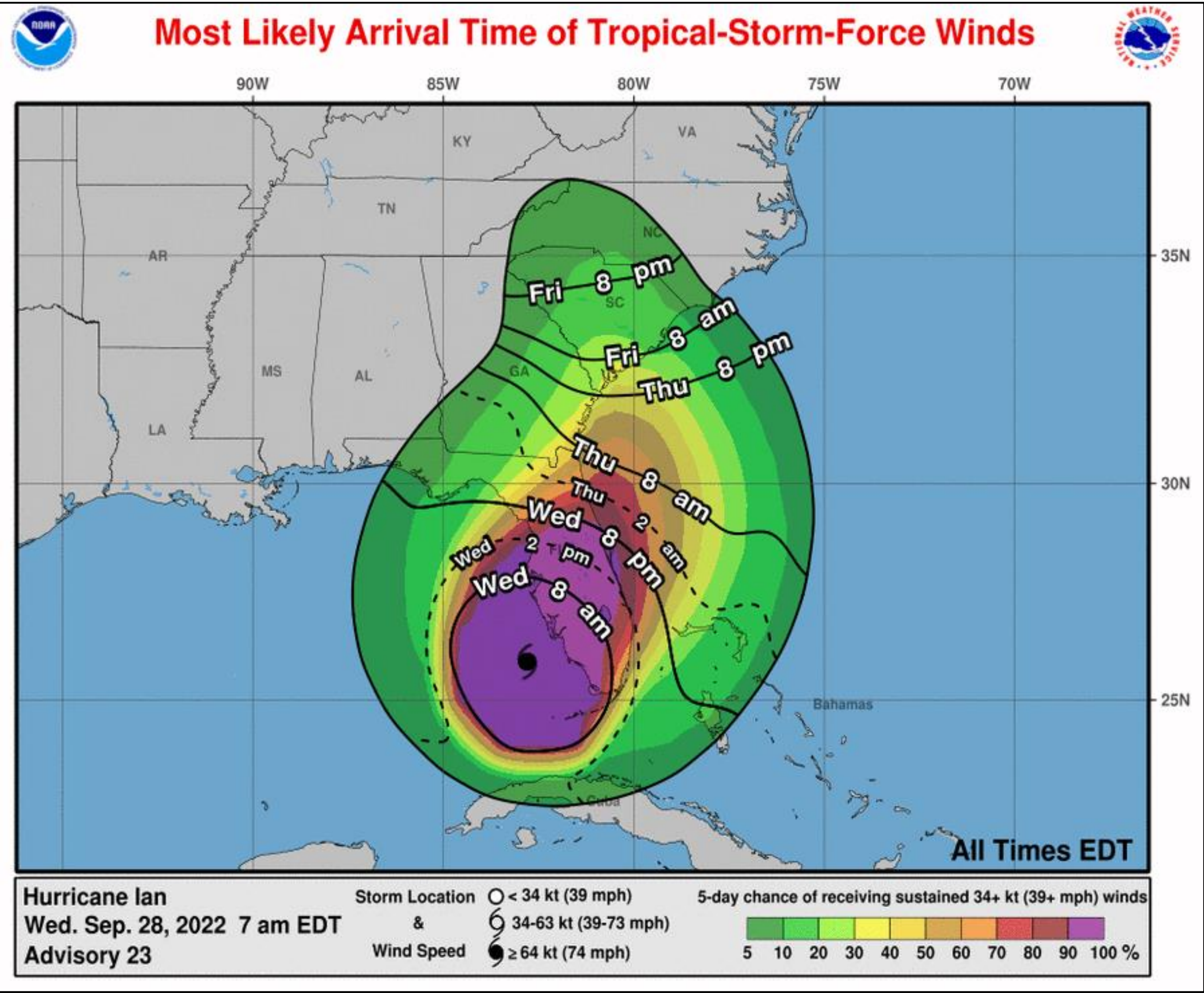
- Yellow to orange is 31-70%

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



Hurricane Ian



- **Tampa to Ft. Lauderdale – Later this morning**
- **Big Bend to Daytona Beach/Jacksonville – Wednesday night**
- **Georgia coast – Thursday 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

- **KEY WEST FL – This afternoon**
- **NAPLES FL - Thursday morning**
- **FT MYERS FL - Thursday afternoon**
- **VENICE FL - Thursday afternoon**
- **TAMPA FL - Thursday night**
- **CEDAR KEY – Thursday night**

LATEST REASONABLE

- **KEY WEST FL – Tonight**
- **NAPLES FL - Thursday night**
- **FT MYERS FL - Thursday night**
- **VENICE FL - Thursday night**
- **TAMPA FL - Friday morning**
- **CEDAR KEY – Friday morning**

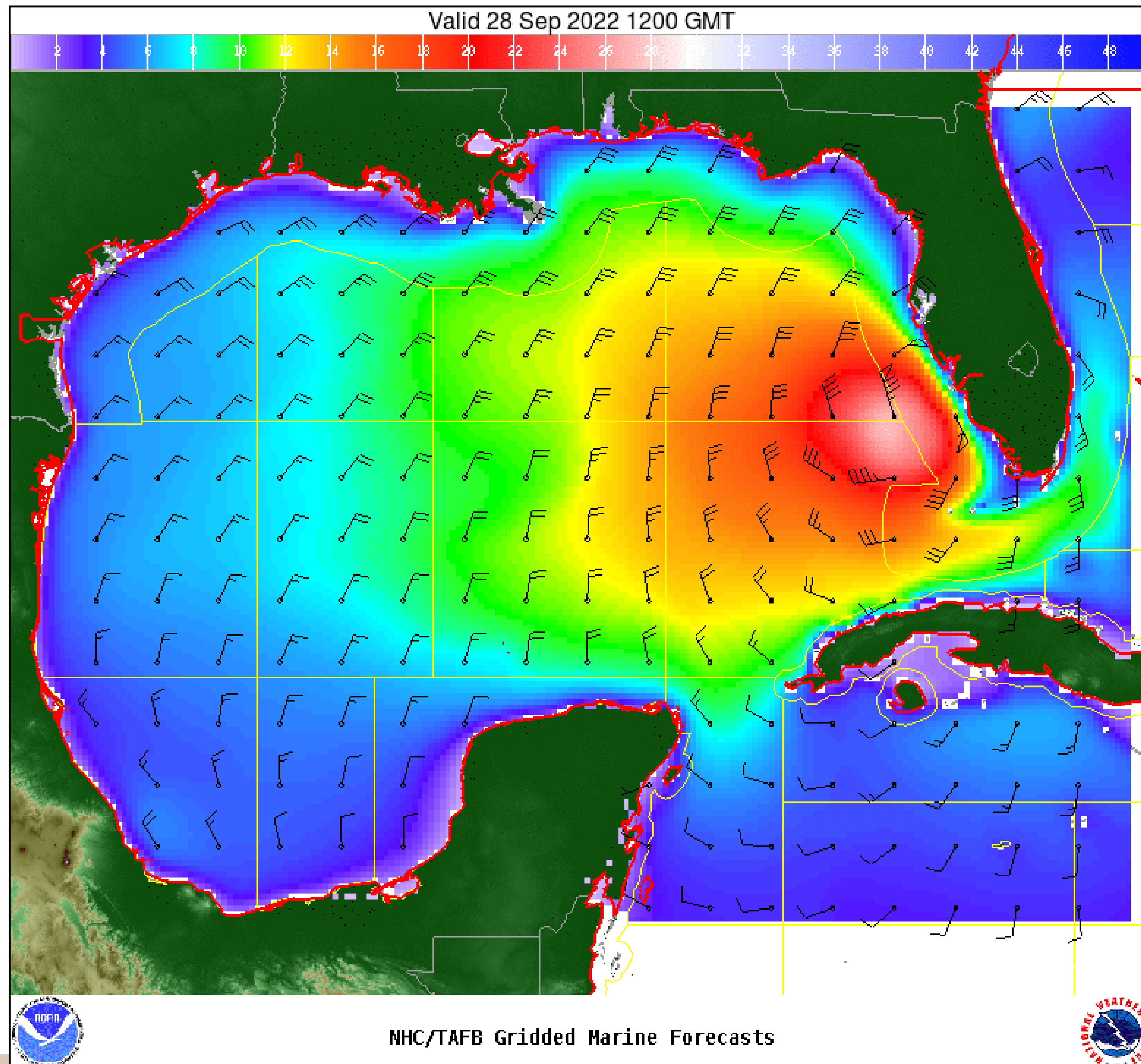
Times locally when sustained winds diminish below tropical storm force (34+ kt)

Wind And Waves

Hurricane Ian



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Current Conditions

8am EDT Wednesday September 28

Peak Winds: 135 KT

Peak Seas: 30 FT

- Wave heights are in feet



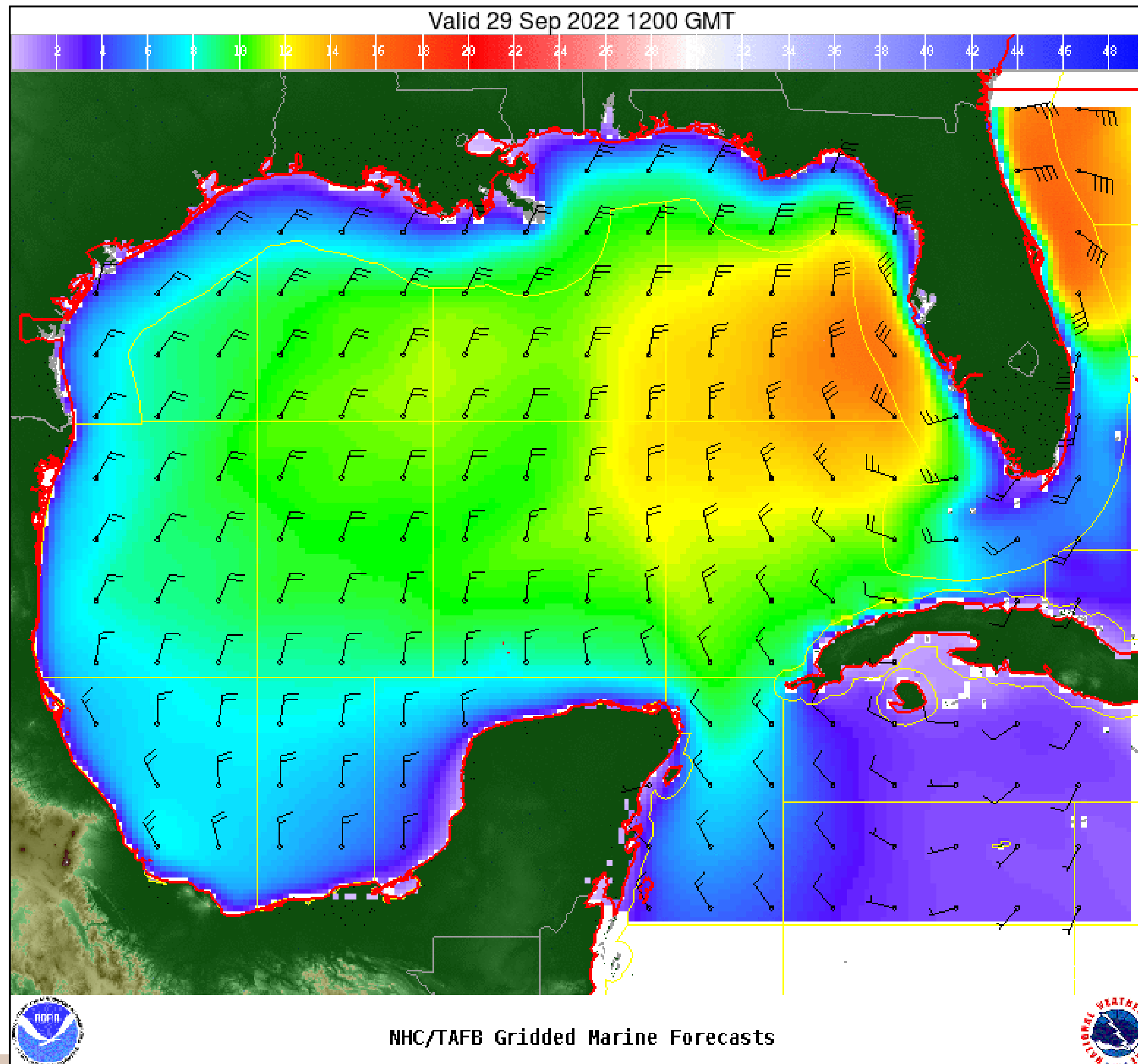
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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24 Hour Forecast

8am EDT Thursday, September 29th

Peak Winds: 70 KT

Peak Seas: 25 FT

- Wave heights are in feet



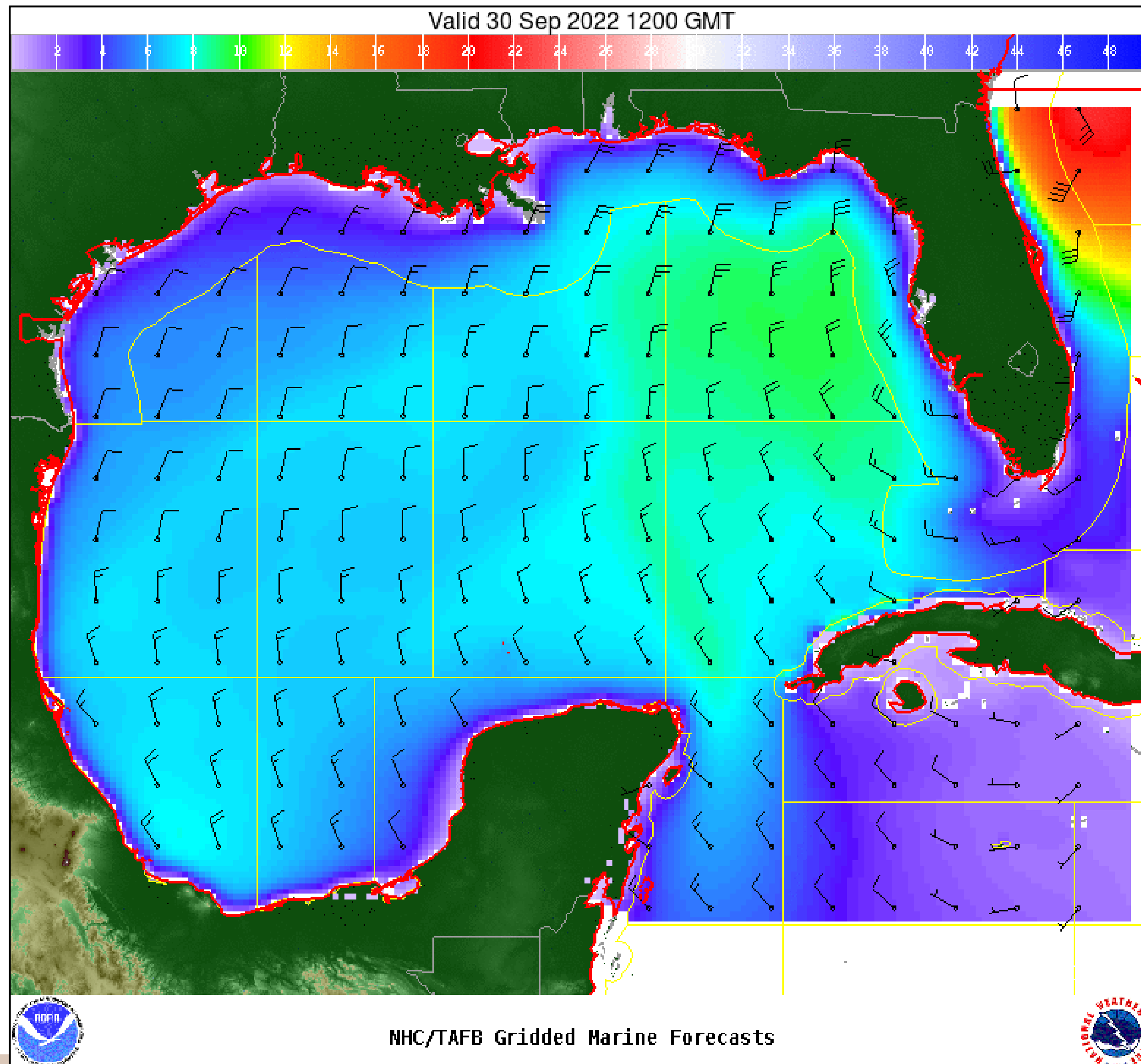
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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NWS National Hurricane Center



48 Hour Forecast

8am EDT Friday September 30th

Peak Winds: 30 kt (over Gulf)

Peak Seas: 10 ft (over Gulf)

- Wave heights are in feet



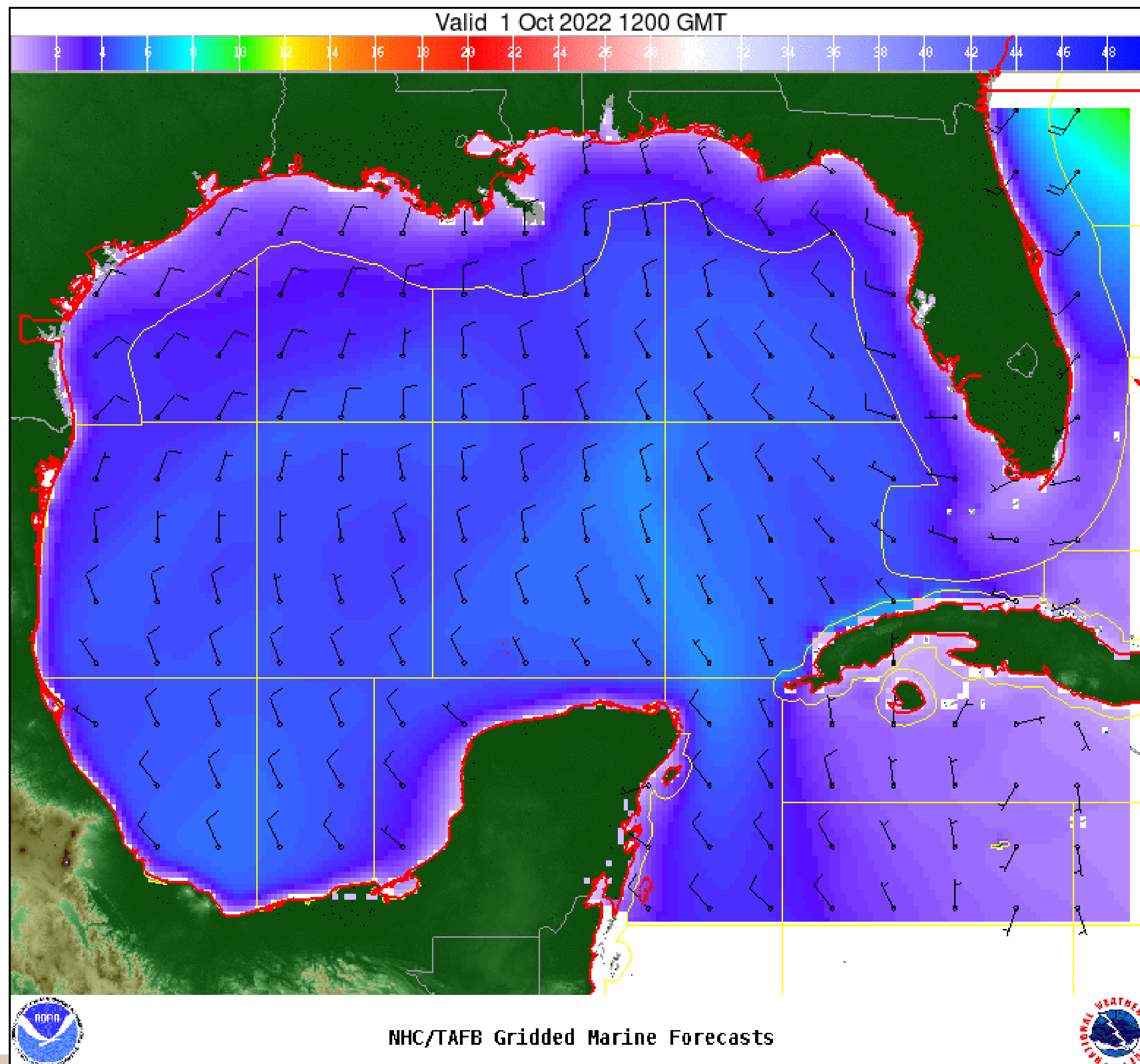
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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72 Hour Forecast

8am EDT Saturday October 1

Peak Winds: 15 kt (over Gulf)

Peak Seas: 6 ft (over Gulf)

- Wave heights are in feet



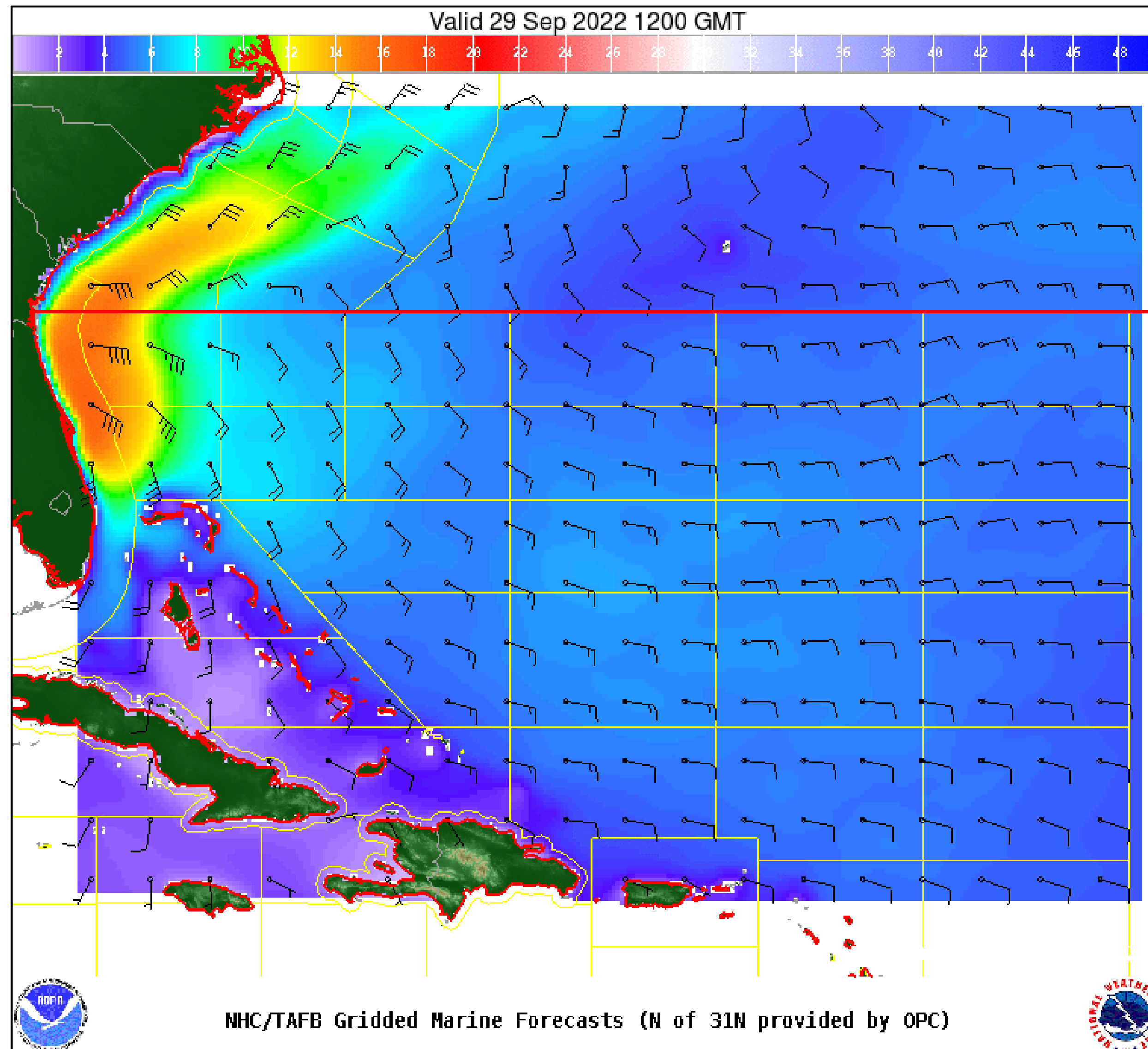
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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24 Hour Forecast

8am EDT Thursday September 29

Peak Winds: 50 kt

Peak Seas: 18 ft

- Wave heights are in feet



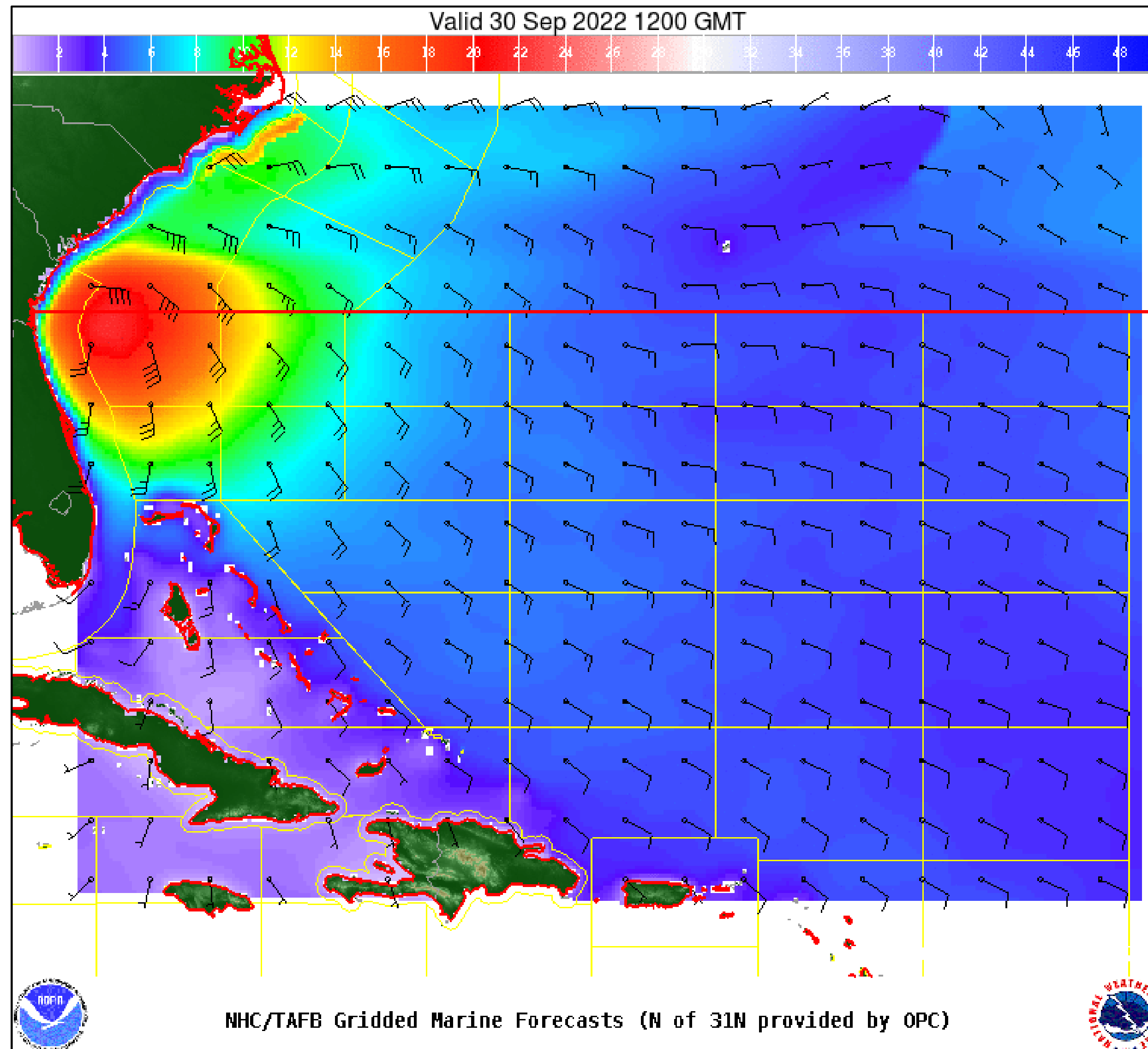
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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48 Hour Forecast

8am EDT Friday September 30

Peak Winds: 45 kt

Peak Seas: 20 ft

■ Wave heights are in feet



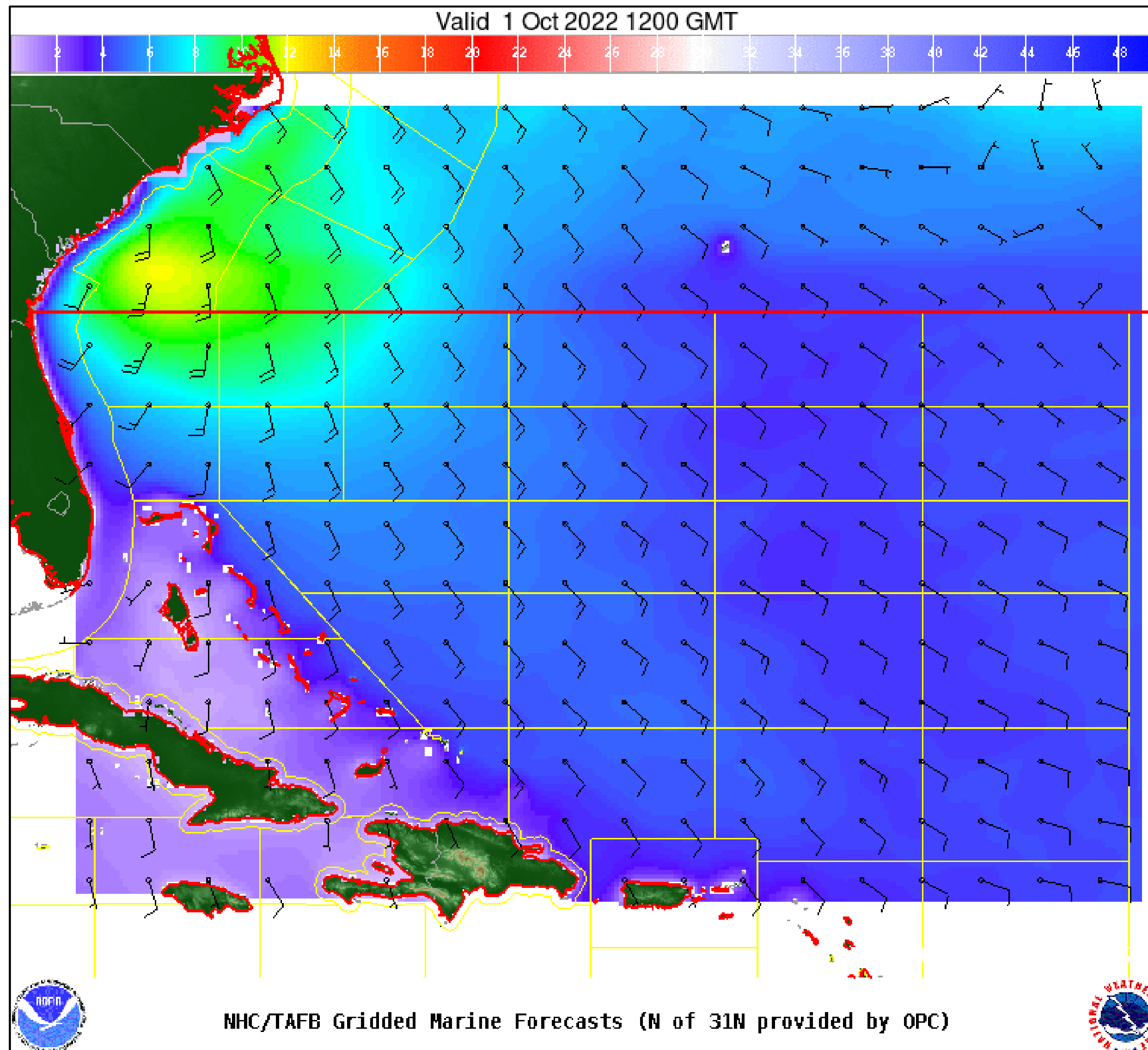
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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NWS National Hurricane Center



72 Hour Forecast

8am EDT Saturday October 1

Peak Winds: 30 kt

Peak Seas: 13 ft

■ Wave heights are in feet



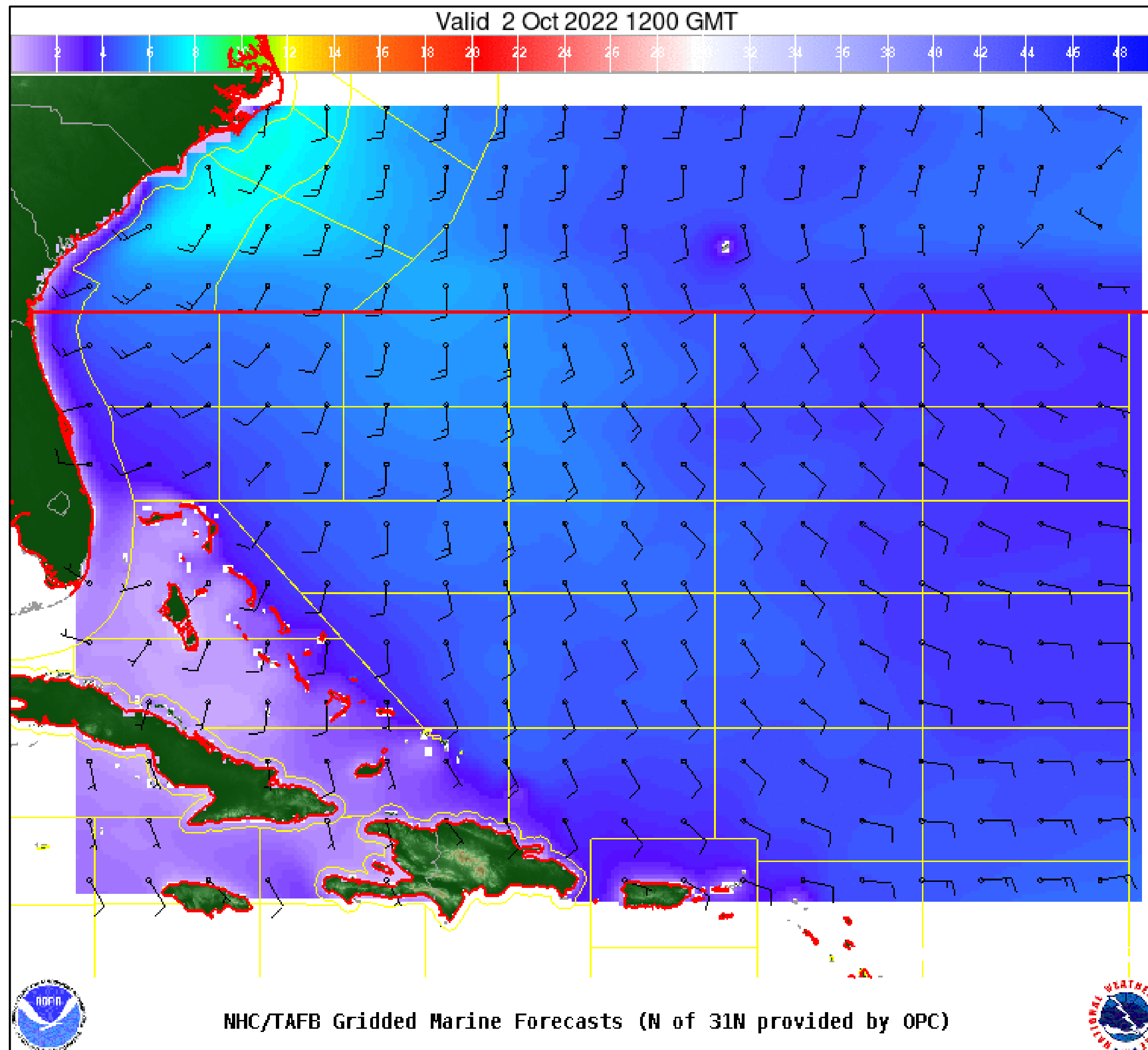
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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NWS National Hurricane Center



96 Hour Forecast

8am EDT Sunday October 2nd

Peak Winds: 20 kt

Peak Seas: 9 ft

■ Wave heights are in feet



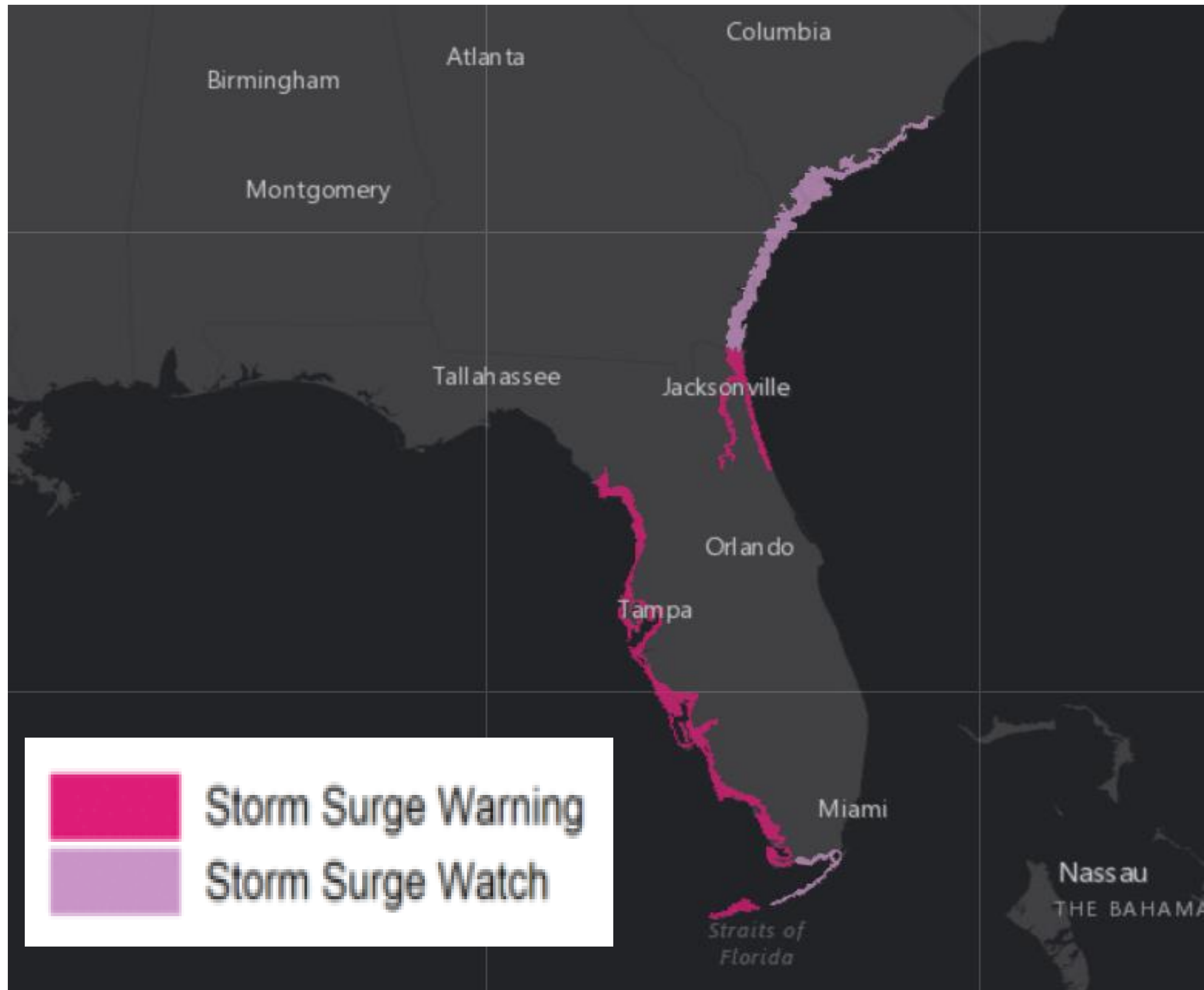
Significant Wave Height (ft)

Storm Surge Watches and Warnings



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Hurricane Ian



A Storm Surge Warning is in effect for...

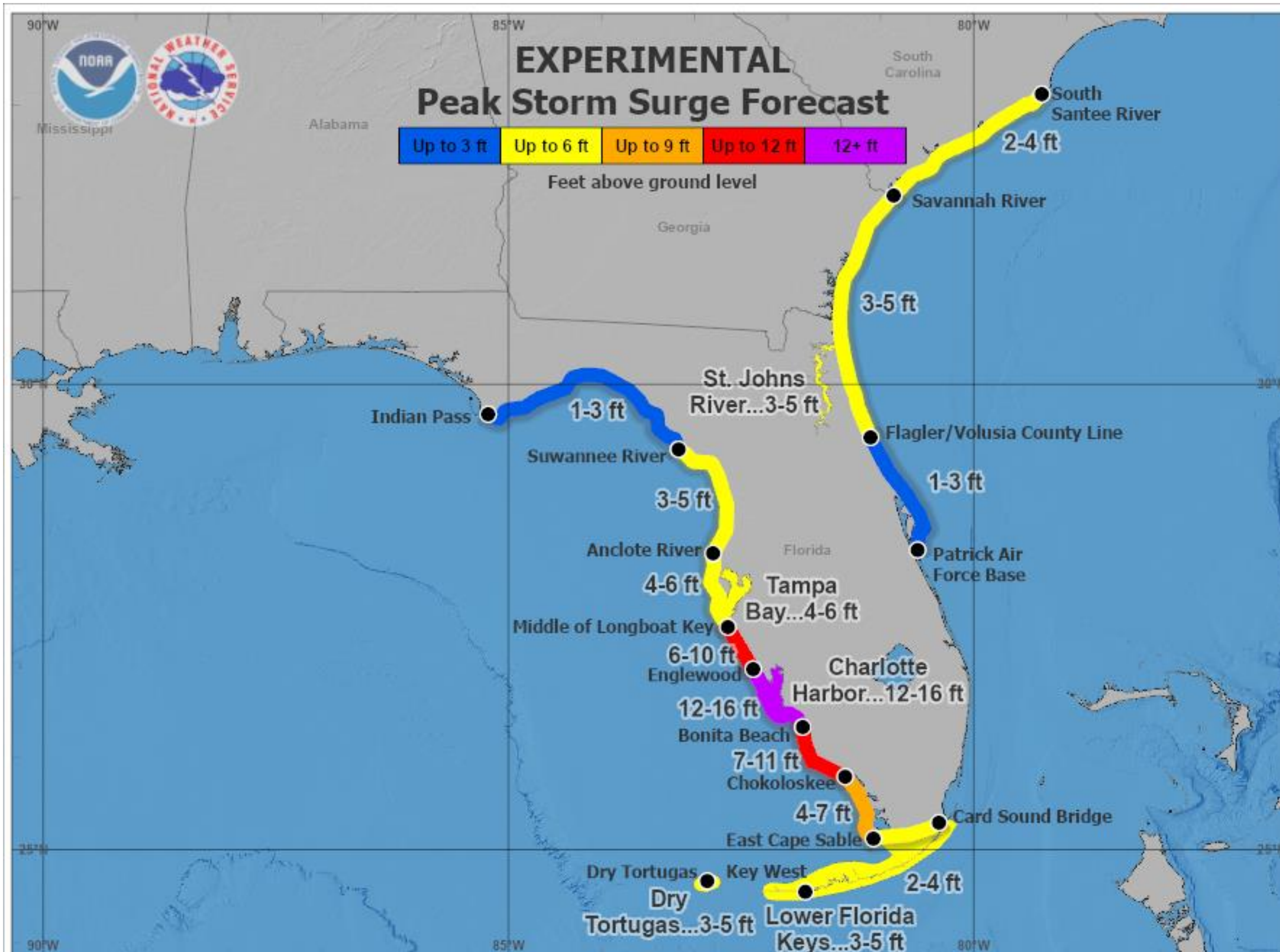
- * Suwannee River southward to Flamingo
- * Tampa Bay
- * Lower Florida Keys from Big Pine Key westward to Key West
- * Dry Tortugas
- * Flagler/Volusia Line to the mouth of the St. Mary's River
- * St. Johns River

Potential Peak Storm Surge

Hurricane Ian



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NWS National Hurricane Center



Hurricane Ian
Wednesday September 28, 2022
07 AM EDT Advisory 23
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.

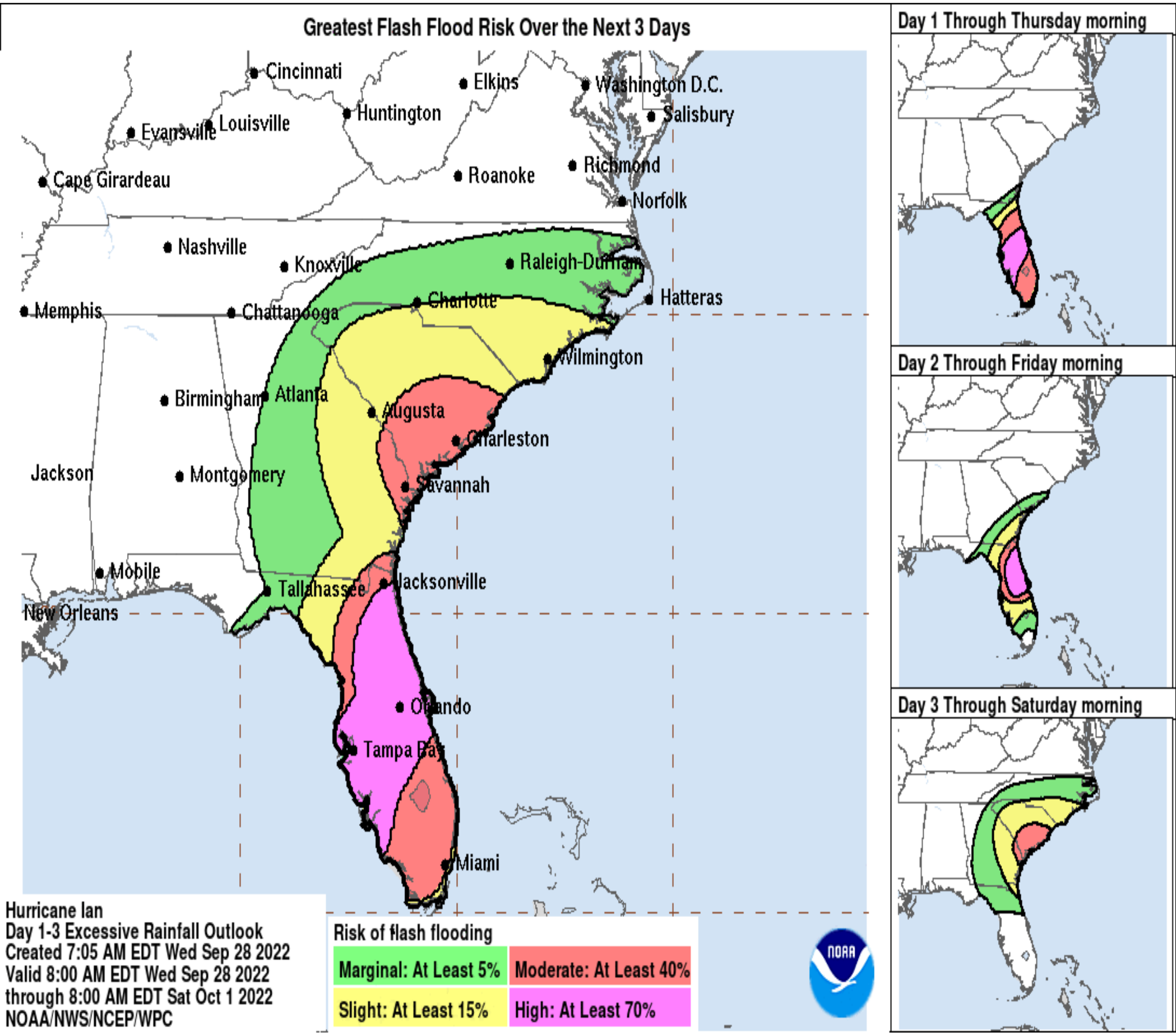
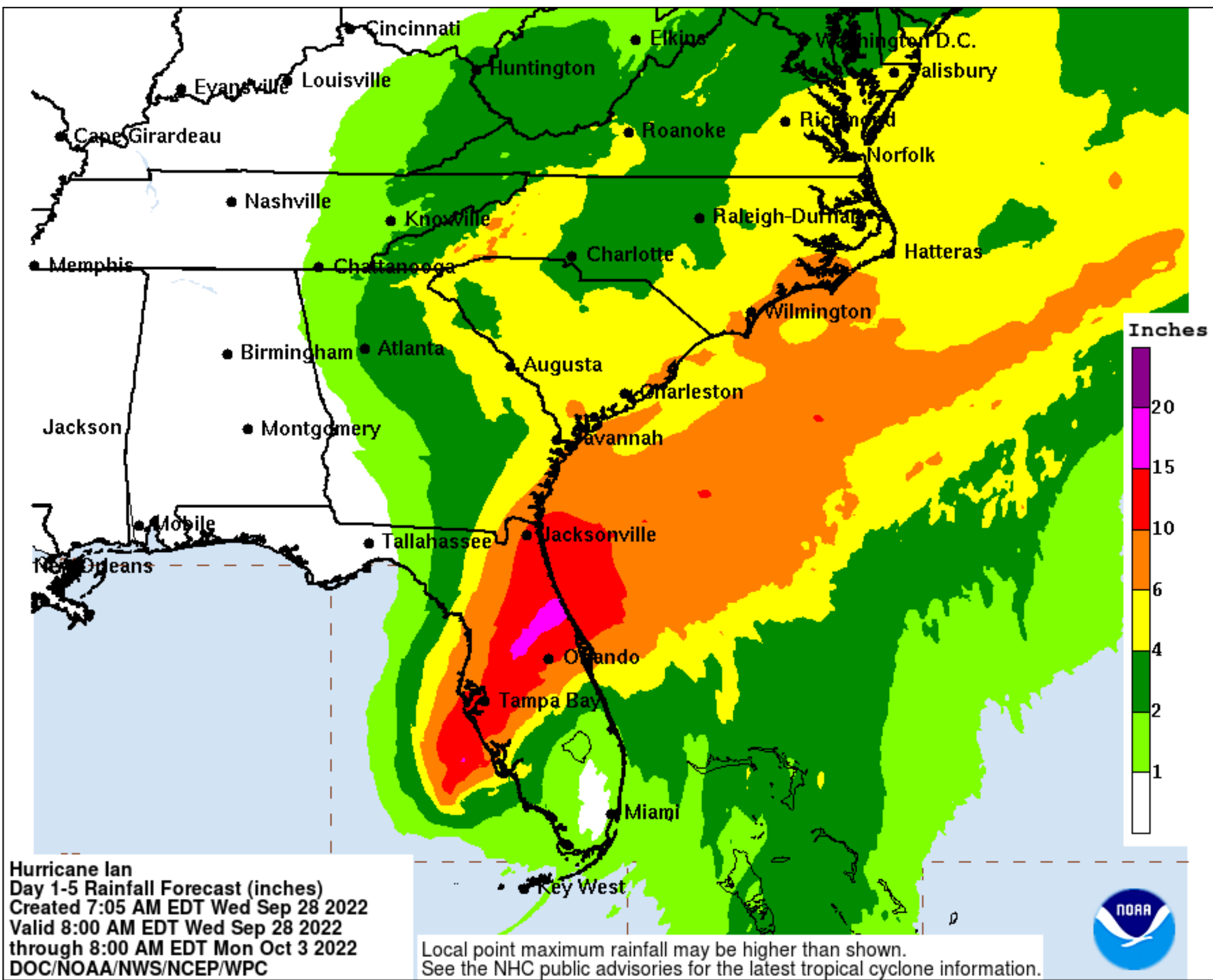
Expected Storm Total Rainfall and Chance of Rainfall Flooding

Hurricane Ian

Images from NWS Weather Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Valid through Monday morning

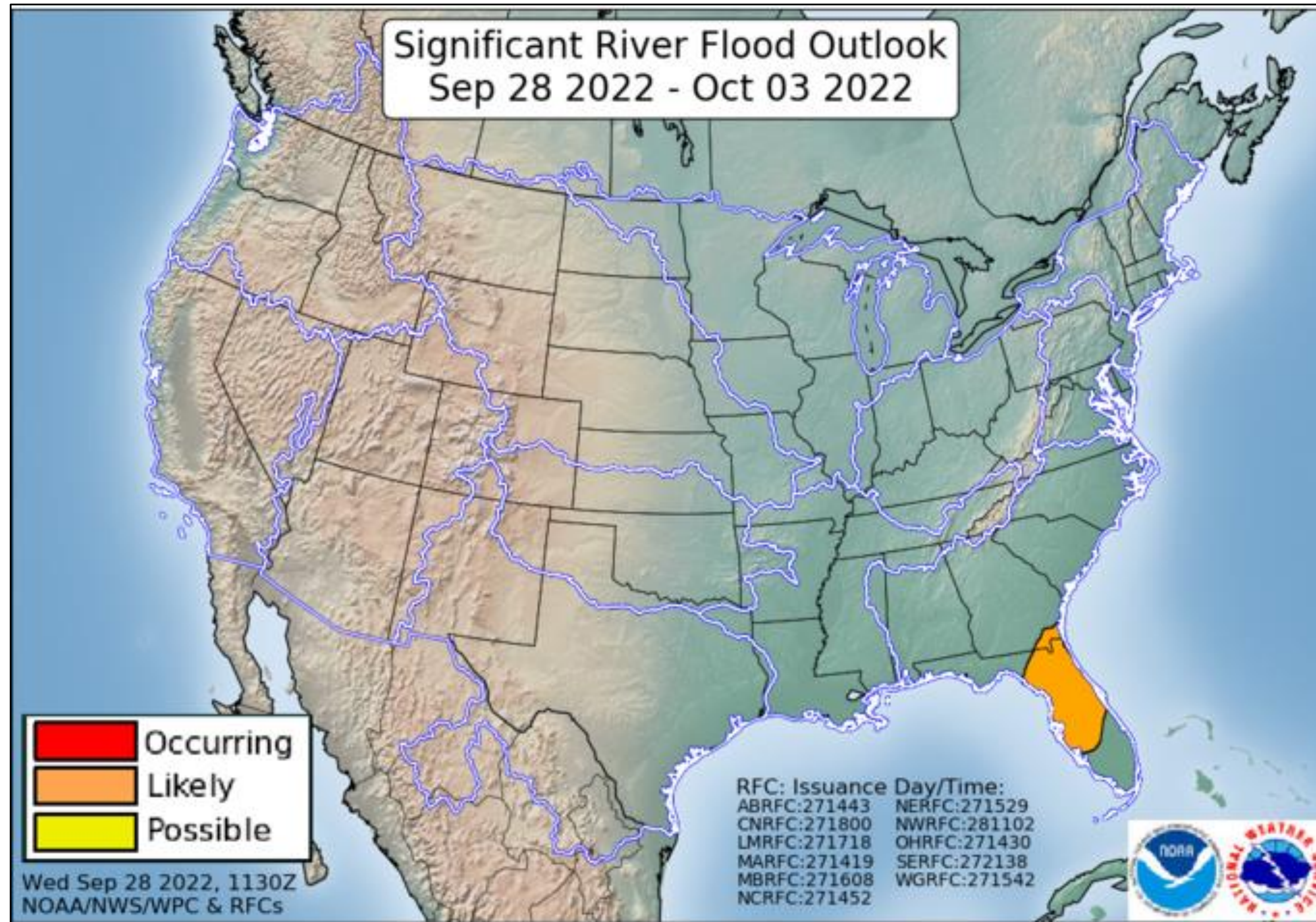
Valid through Saturday morning

Flood Outlook

Hurricane Ian



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NWS National Hurricane Center



Tornado Outlook

Hurricane Ian

Image from NWS Storm Prediction Center



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NWS National Hurricane Center



Potential for Several Tornadoes in the area in yellow/orange

Key Messages

Hurricane Ian



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NWS National Hurricane Center



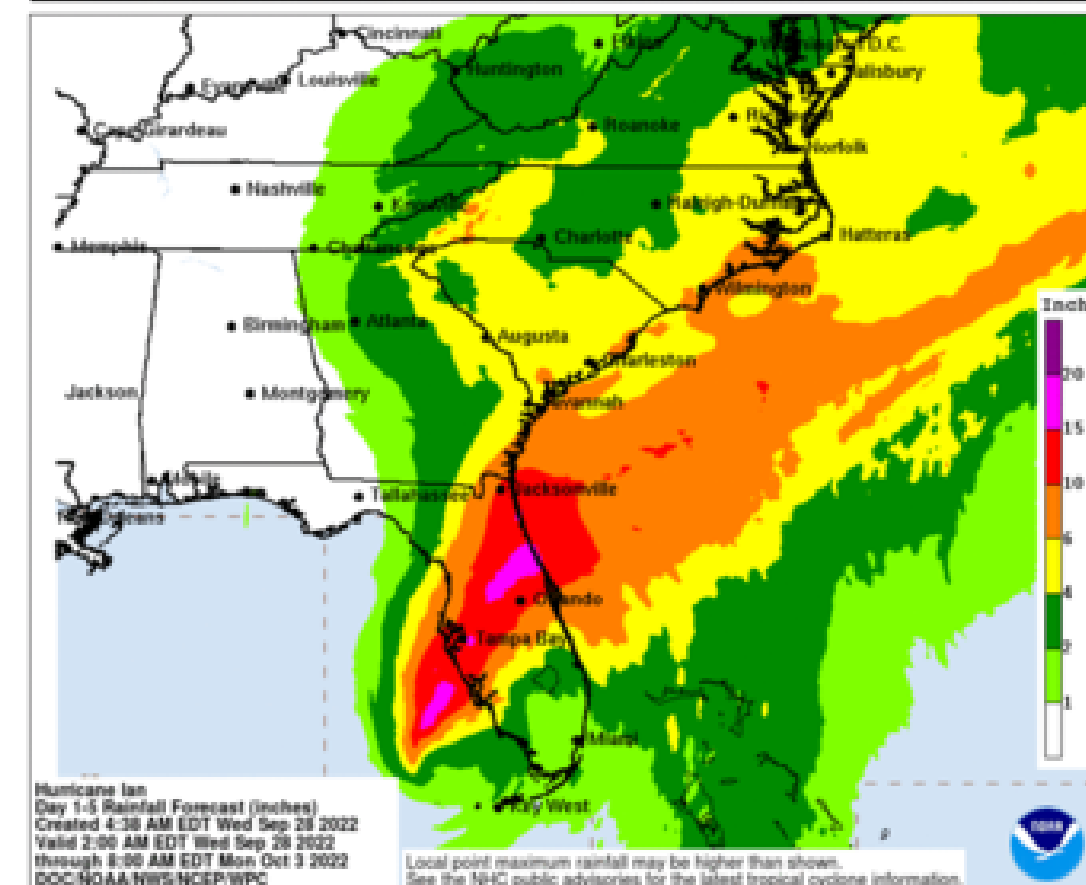
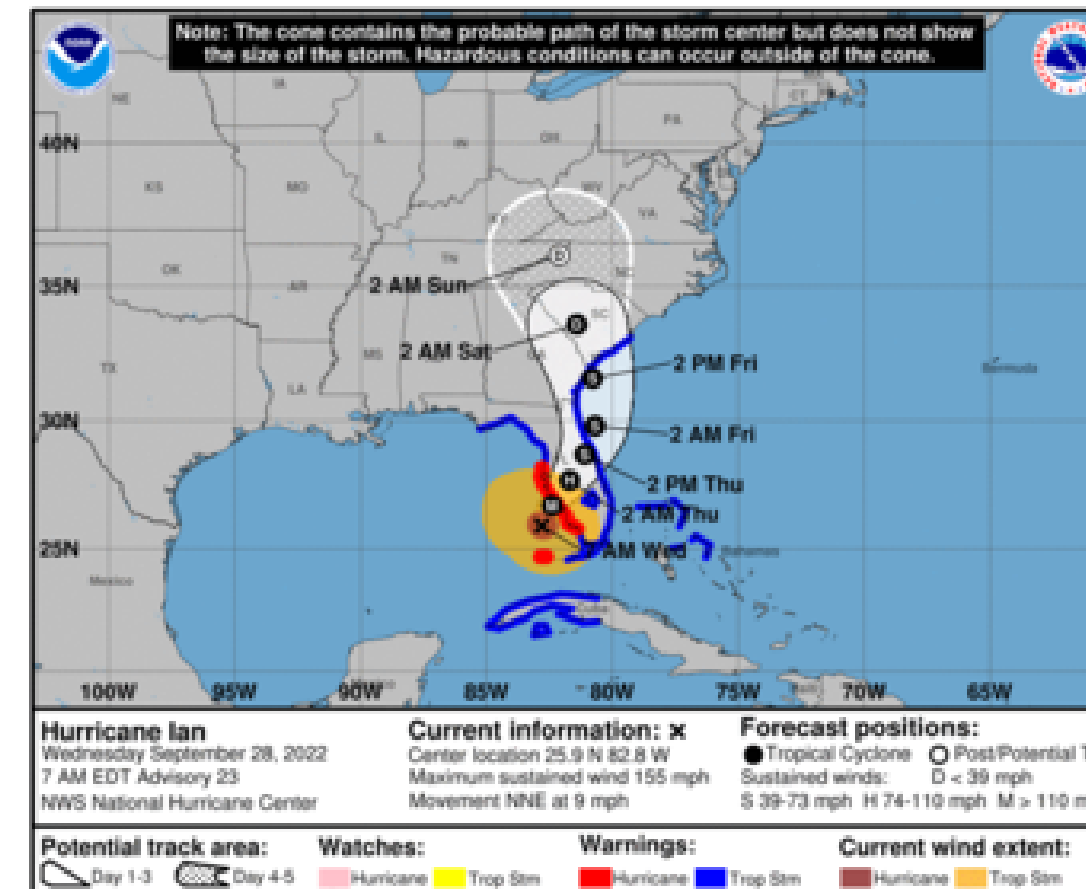
Key Messages for Hurricane Ian Advisory 23: 7:00 AM EDT Wed Sep 28, 2022



1. Catastrophic storm surge inundation of 12 to 16 feet above ground level along with destructive waves are expected somewhere along the southwest Florida coastline from Englewood to Bonita Beach, including Charlotte Harbor. Residents in these areas should urgently follow any evacuation orders in effect.

2. Catastrophic wind damage is expected along the southwestern coast of Florida beginning in the next few hours where the core of Ian makes landfall. Preparations to protect life and property should be urgently rushed to completion.

3. Heavy rainfall will spread across the Florida peninsula through Thursday and reach portions of the Southeast U.S. later this week and this weekend. Widespread, life-threatening catastrophic flooding is expected across portions of central Florida with considerable flooding in southern Florida, northern Florida, southeastern Georgia and coastal South Carolina. Widespread, prolonged major and record river flooding expected across central Florida.



For more information go to 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 in SE Gulf at 30-35 ft, but diminish Friday night
- Seas in Atlantic offshore of Georgia/South Carolina will build to 20 ft on Thursday



HURRICANE IAN BRIEFING

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

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

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



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