

IMPACTS FOR D7 (through next 5 days)

Winds – Extreme

Storm Surge – Extreme

Rainfall/Flash Flooding – Extreme

Tornadoes – Medium

Waves - Extreme

HURRICANE IAN BRIEFING

4:00 PM EDT

Wednesday, September 28, 2022

Prepared by:

Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



Situation Overview

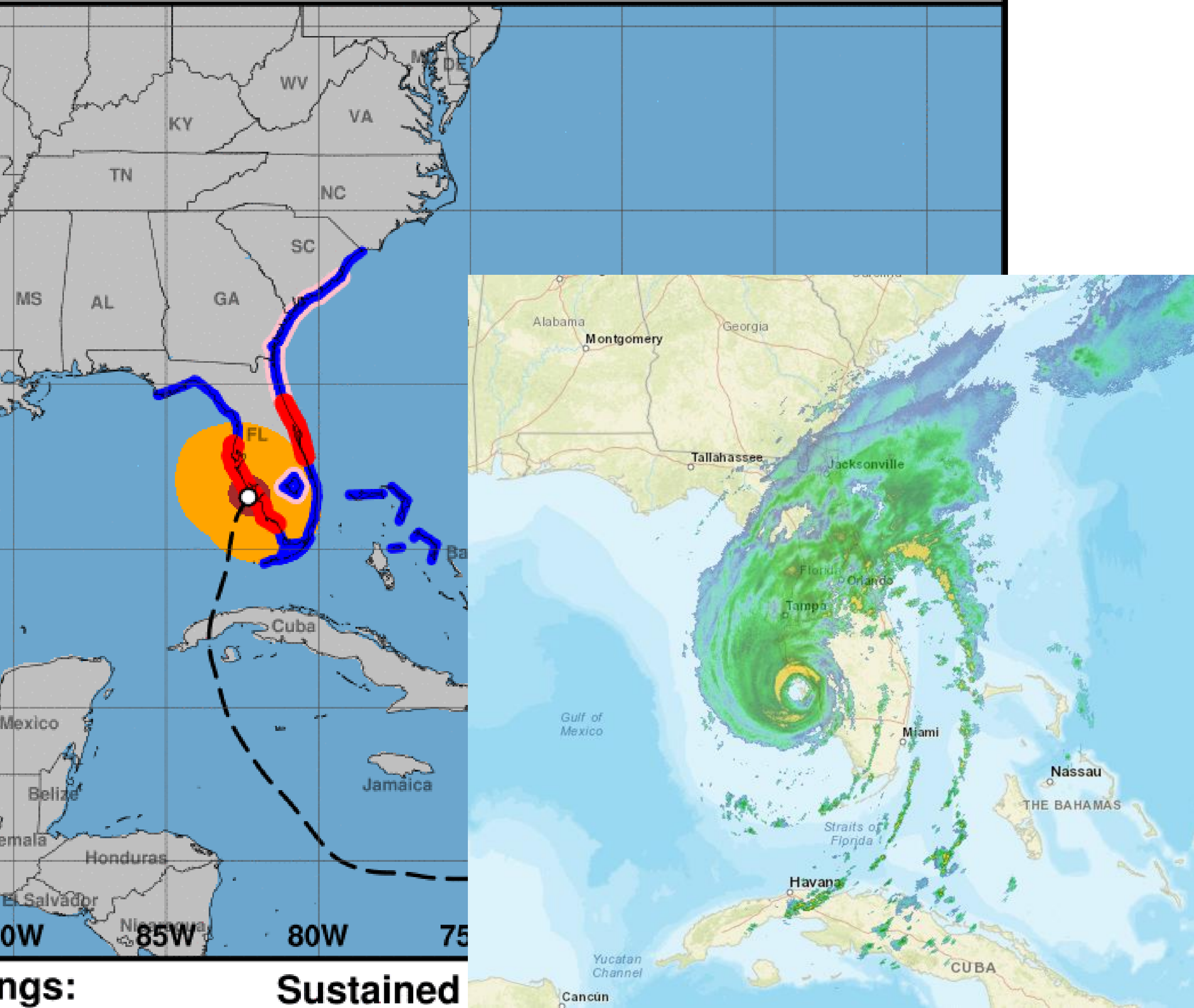
Hurricane Ian



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NWS National Hurricane Center

Surface Wind Field of Hurricane Ian

of 200 PM EDT Wed Sep 28, 2022 Advisory Number 24A



...EXTREMELY DANGEROUS CATEGORY 4 HURRICANE IAN MAKES LANDFALL IN SOUTHWESTERN FLORIDA...

SUMMARY OF 310 PM EDT INFORMATION

LOCATION...26.7N 82.2W
ABOUT 15 NM WNW OF FT MYERS FL
ABOUT 15 NM WSW OF PUNTA GORDA FL
MAXIMUM SUSTAINED WINDS 130 KT
PRESENT MOVEMENT...NNE AT 8 KT
PEAK SEAS 30 FT

SIZE

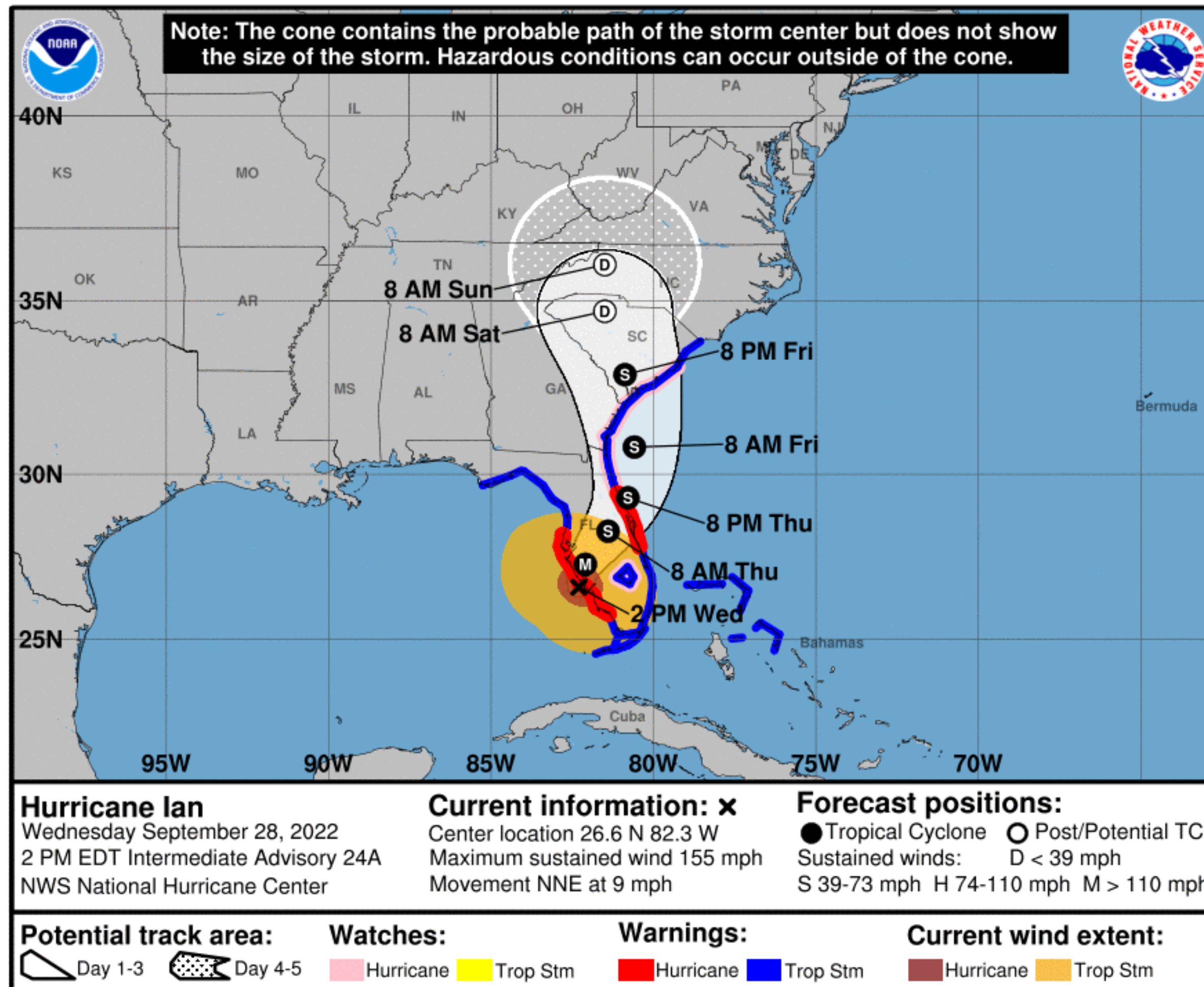
64 KT..... 40NE 40SE 30SW 40NW.
50 KT..... 70NE 60SE 70SW 80NW.
34 KT..... 120NE 140SE 100SW 150NW.
12 FT SEAS.. 45NE 120SE 300SW 240NW.

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 made landfall as a category 4 hurricane at Cayo Costa, Florida at 3:05pm.
- 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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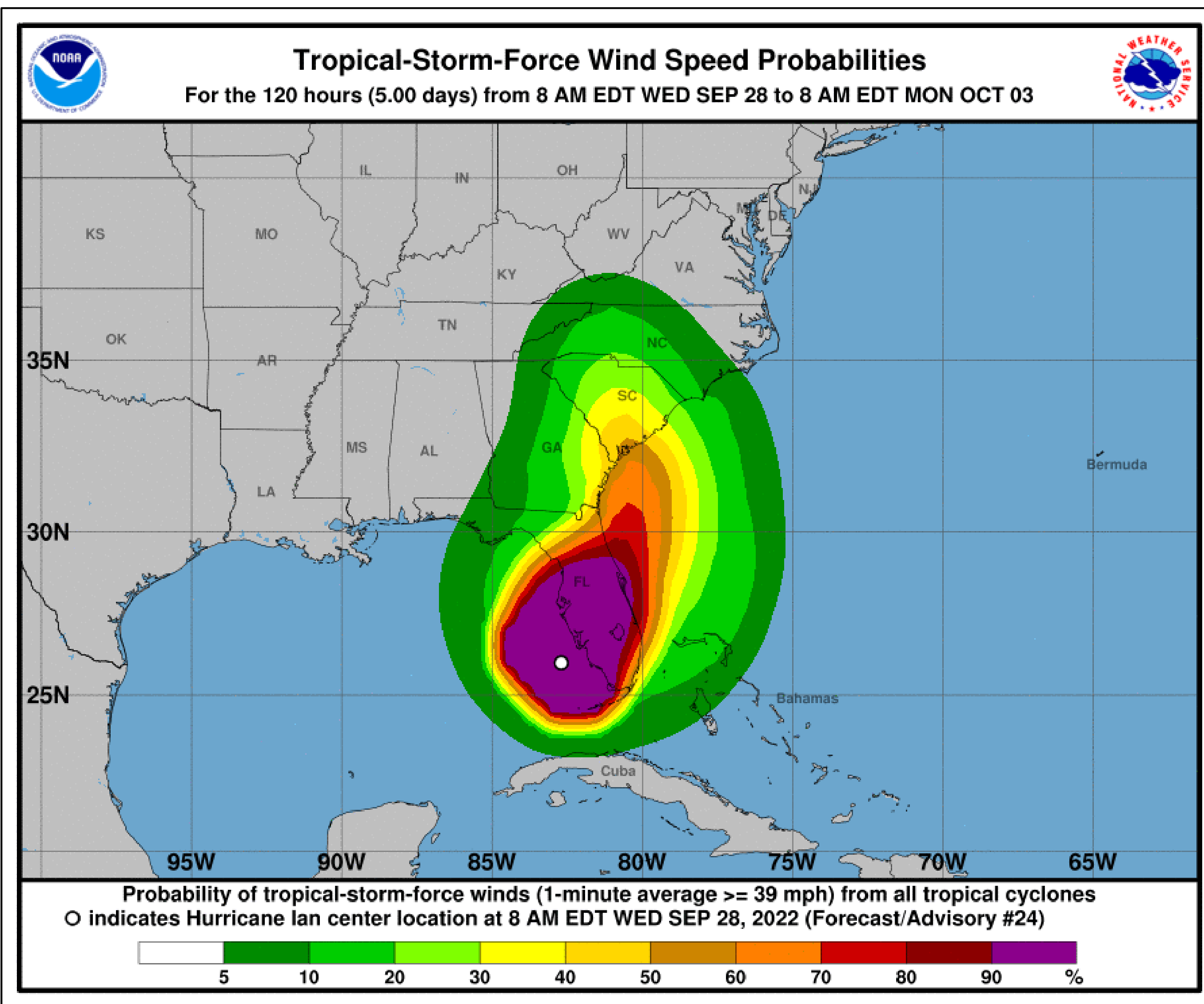
■ <https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Hurricane Ian



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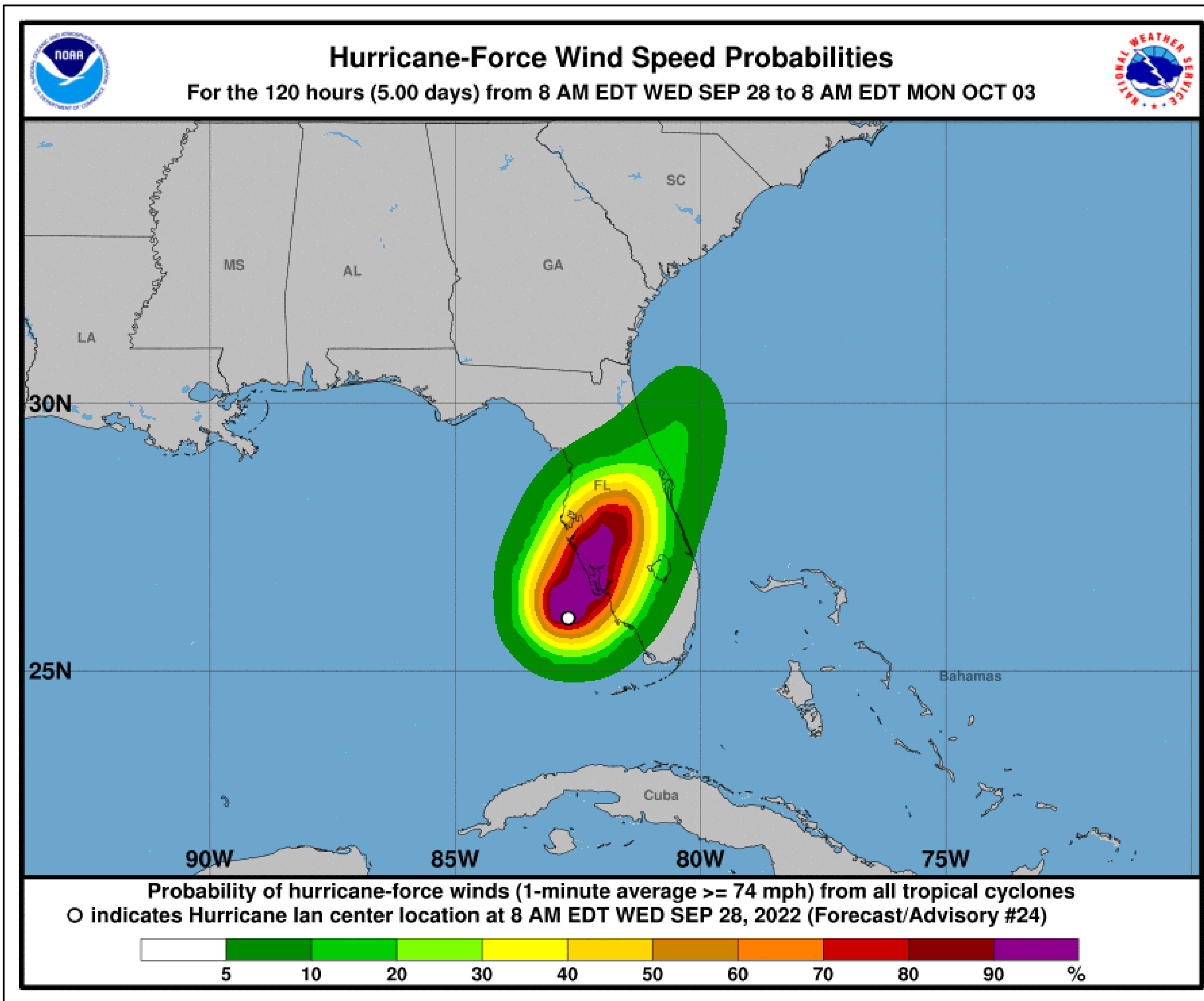
- **NAPLES FL - 100%**
- **FT MYERS FL - 100%**
- **VENICE FL - 100%**
- **TAMPA FL - 100%**
- **CEDAR KEY - 75%**
- **FLORENCE - 25%**
- **MYRTLE BEACH - 35%**
- **GEORGETOWN - 30%**
- **CHARLESTON - 45%**
- **BEAUFORT - 50%**
- **SAVANNAH - 40%**
- **KINGS BAY 55%**
- **MAYPORT - 60%**
- **JACKSONVILLE - 40%**
- **DAYTONA BEACH - 90%**
- **COCOA BEACH - 95%**
- **PATRICK AFB - 95%**
- **FT PIERCE - 90%**
- **W PALM BEACH - 75%**
- **FT. LAUDERDALE - 60%**
- **MIAMI FL - 50%**
- **HOMESTEAD ARB - 35%**
- **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



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Hurricane Ian



- DAYTONA BEACH - 15%
- COCOA BEACH - 20%
- PATRICK AFB - 20%

- FT MYERS - 85%
- VENICE - 95%
- TAMPA - 40%

- 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%.

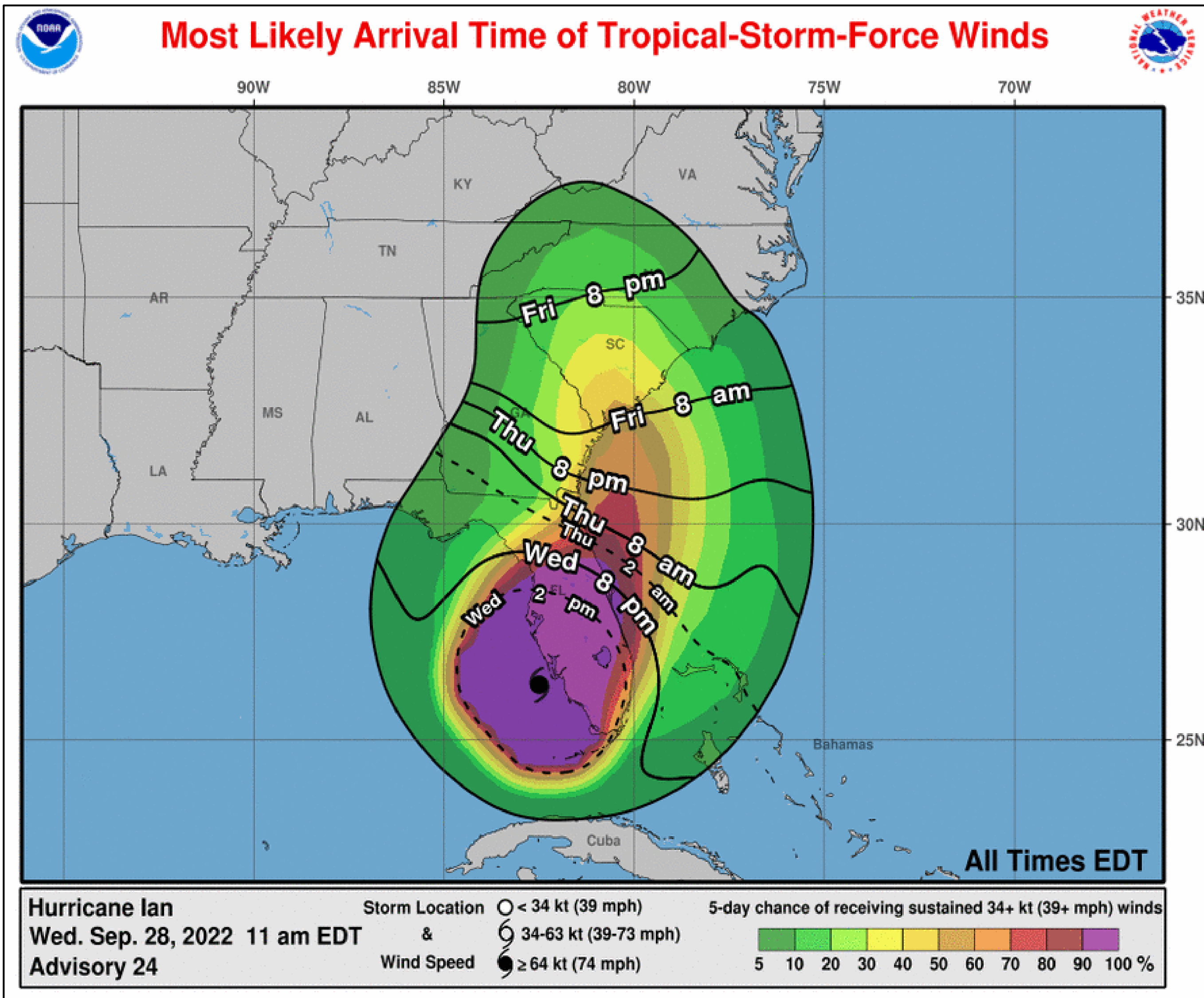
- Yellow to orange is 31-70%

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



Hurricane Ian



- **Big Bend to Daytona Beach / Jacksonville – Tonight**
- **Georgia coast – Thursday afternoon**
- **South Carolina coast – Friday 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

- **NAPLES FL – Midnight tonight**
- **FT MYERS FL – Late tonight**
- **VENICE FL - Late tonight**
- **TAMPA FL - Thursday morning**
- **CEDAR KEY – Thursday morning**

LATEST REASONABLE

- **NAPLES FL - Thursday morning**
- **FT MYERS FL - Thursday morning**
- **VENICE FL - Thursday noon**
- **TAMPA FL - Thursday afternoon**
- **CEDAR KEY – Thursday 6 pm**

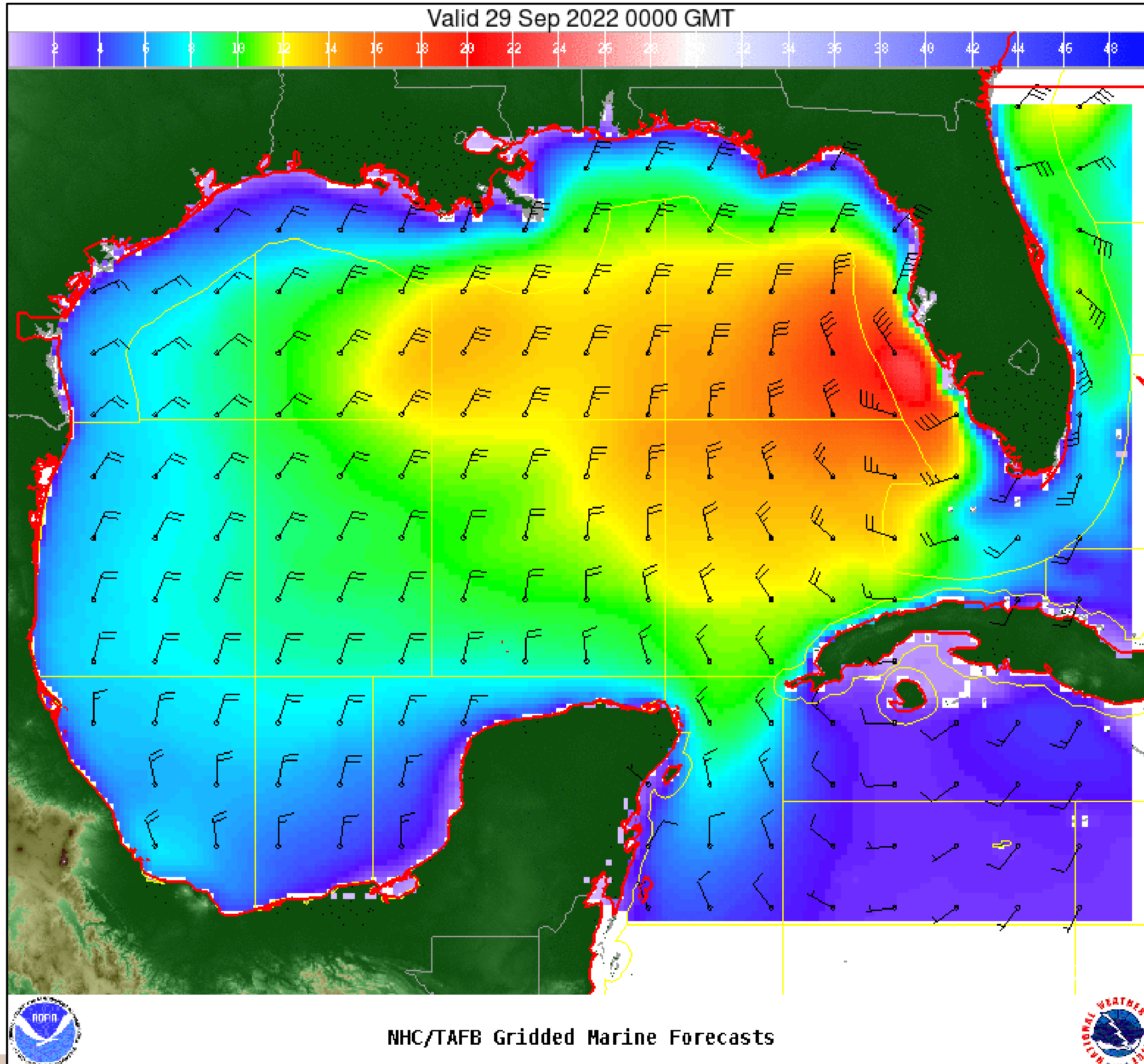
Times locally when sustained winds diminish below tropical storm force (34+ kt)

Wind And Waves

Hurricane Ian



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Short-term Forecast

8pm EDT Wednesday September 28

Peak Winds: 105 KT

Peak Seas: 25 FT

■ Wave heights are in feet



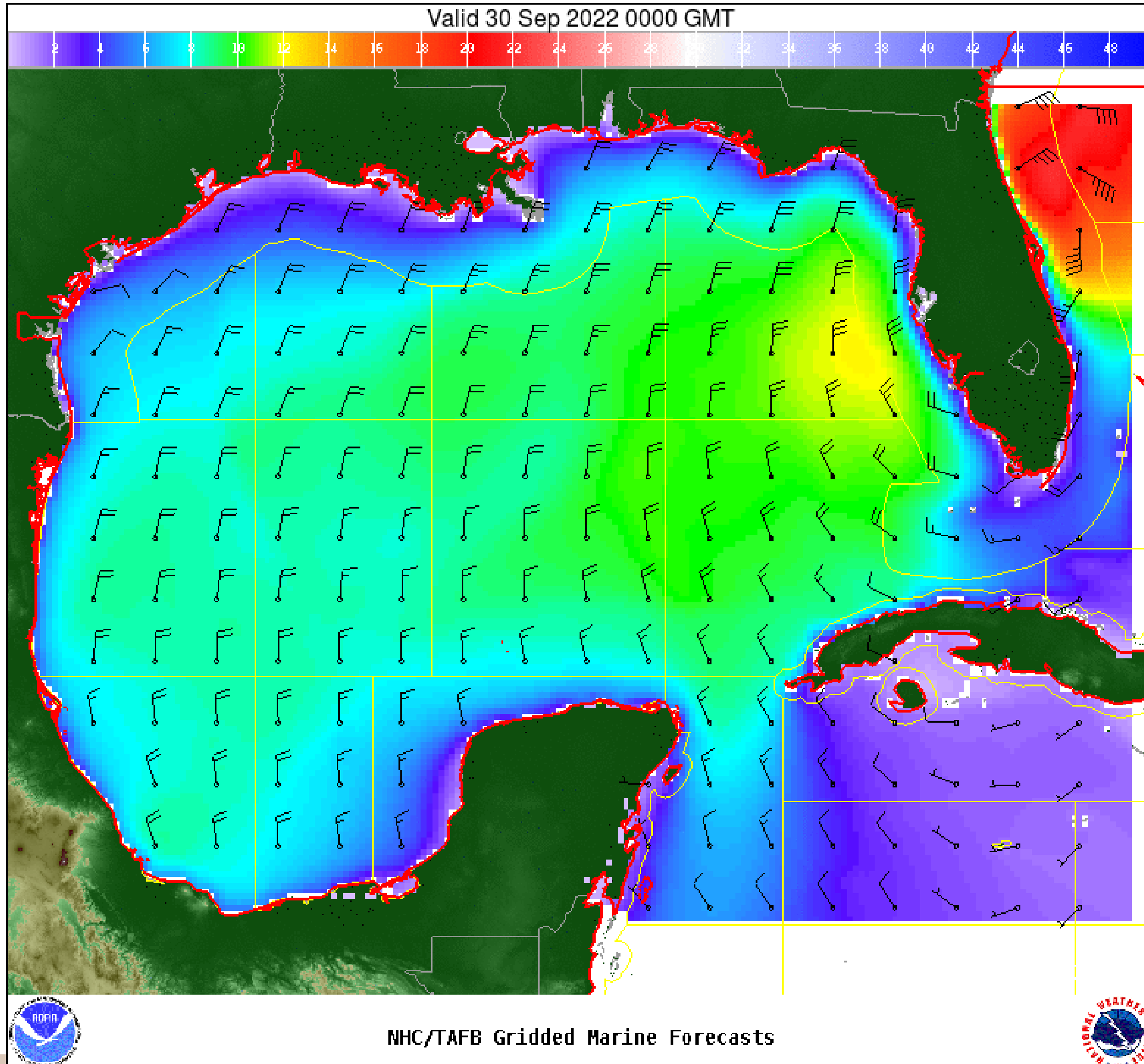
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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24 Hour Forecast

8pm EDT Thursday, September 29th

Peak Winds: 30 KT (over the Gulf)

Peak Seas: 12 FT (over the Gulf)

■ Wave heights are in feet



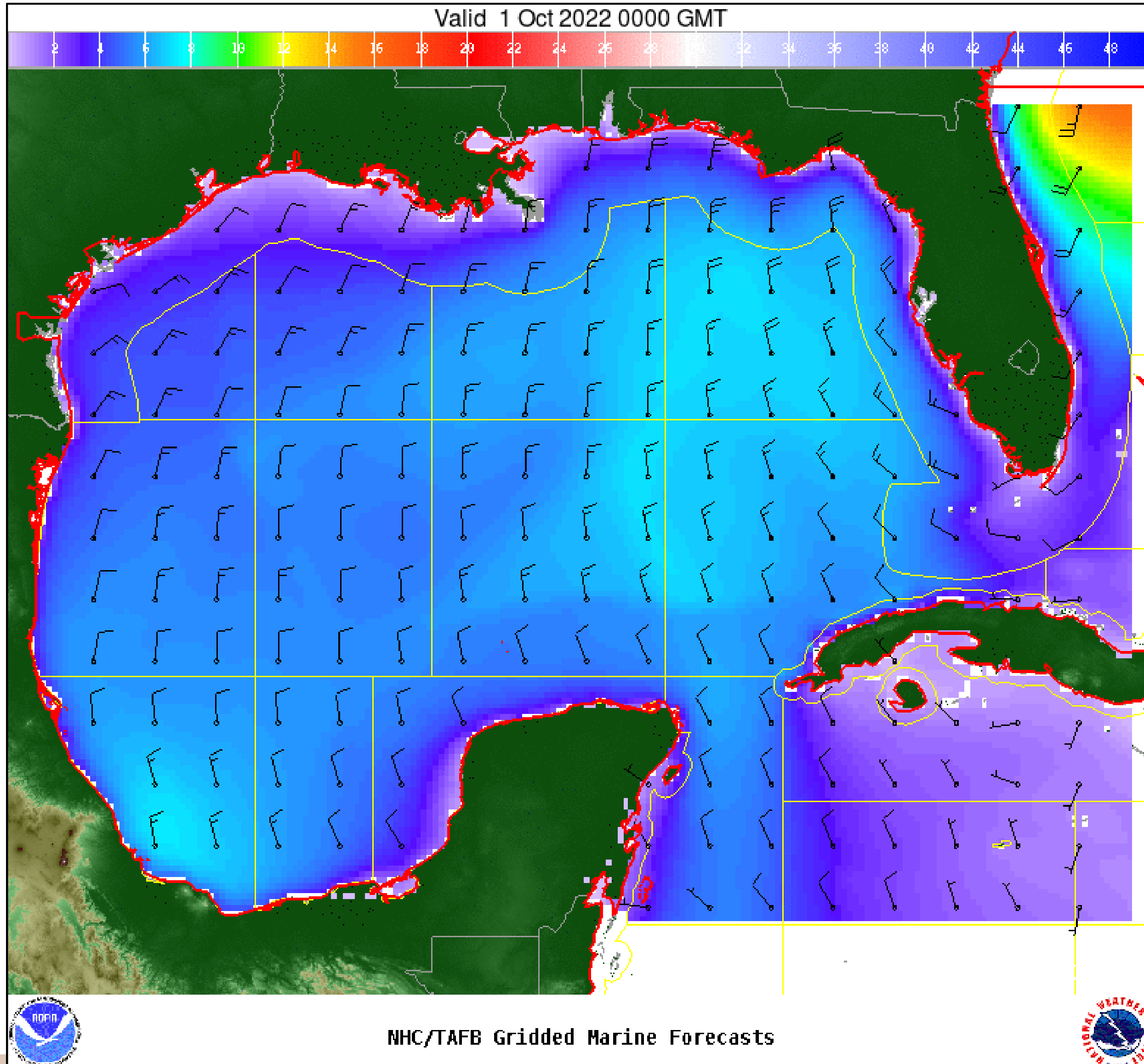
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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48 Hour Forecast

8pm EDT Friday September 30th

Peak Winds: 25 kt (over Gulf)

Peak Seas: 9 ft (over Gulf)

■ Wave heights are in feet



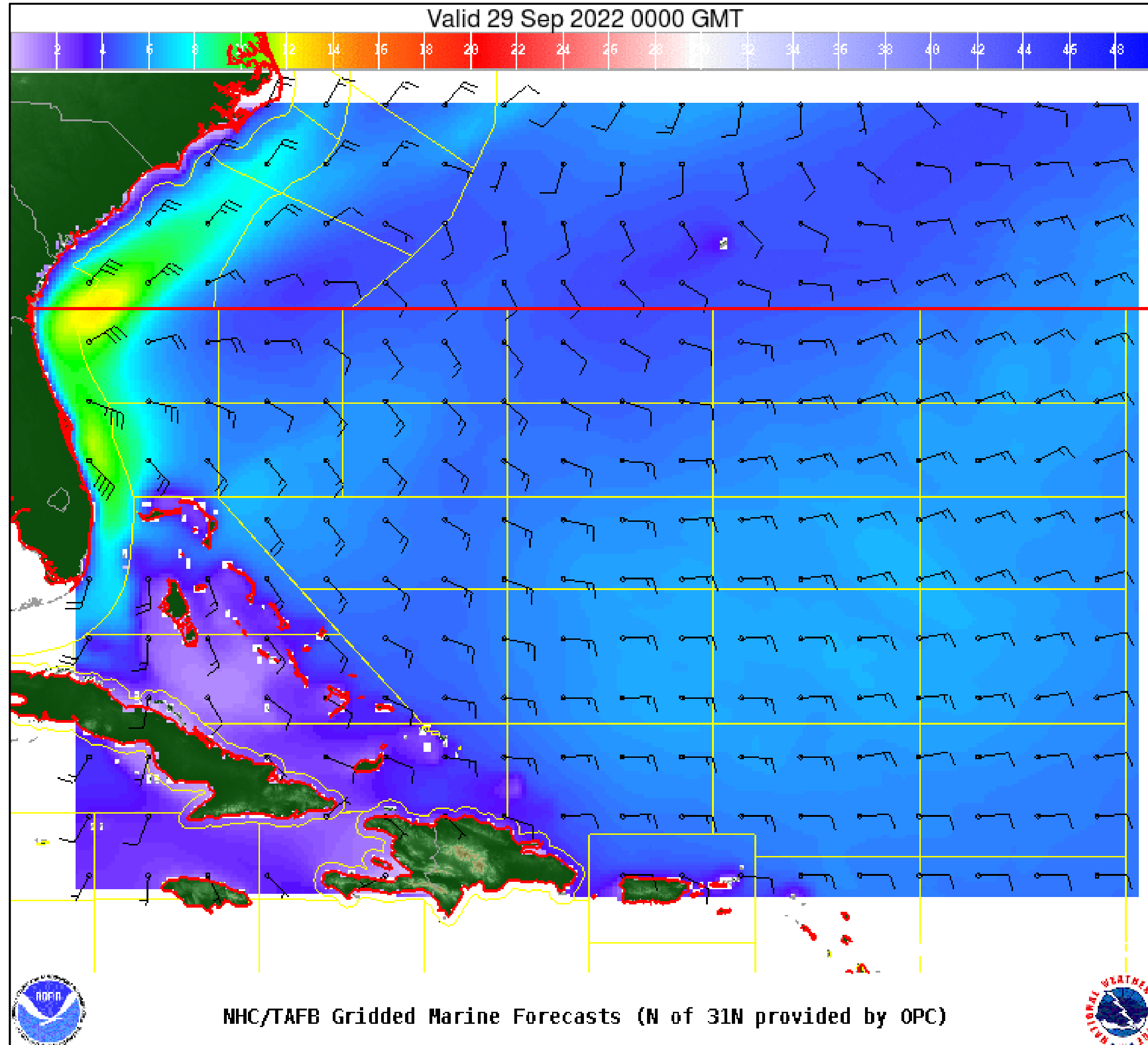
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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Short-term Forecast

8pm EDT Wednesday September 28

Peak Winds: 40 kt

Peak Seas: 13 ft

■ Wave heights are in feet



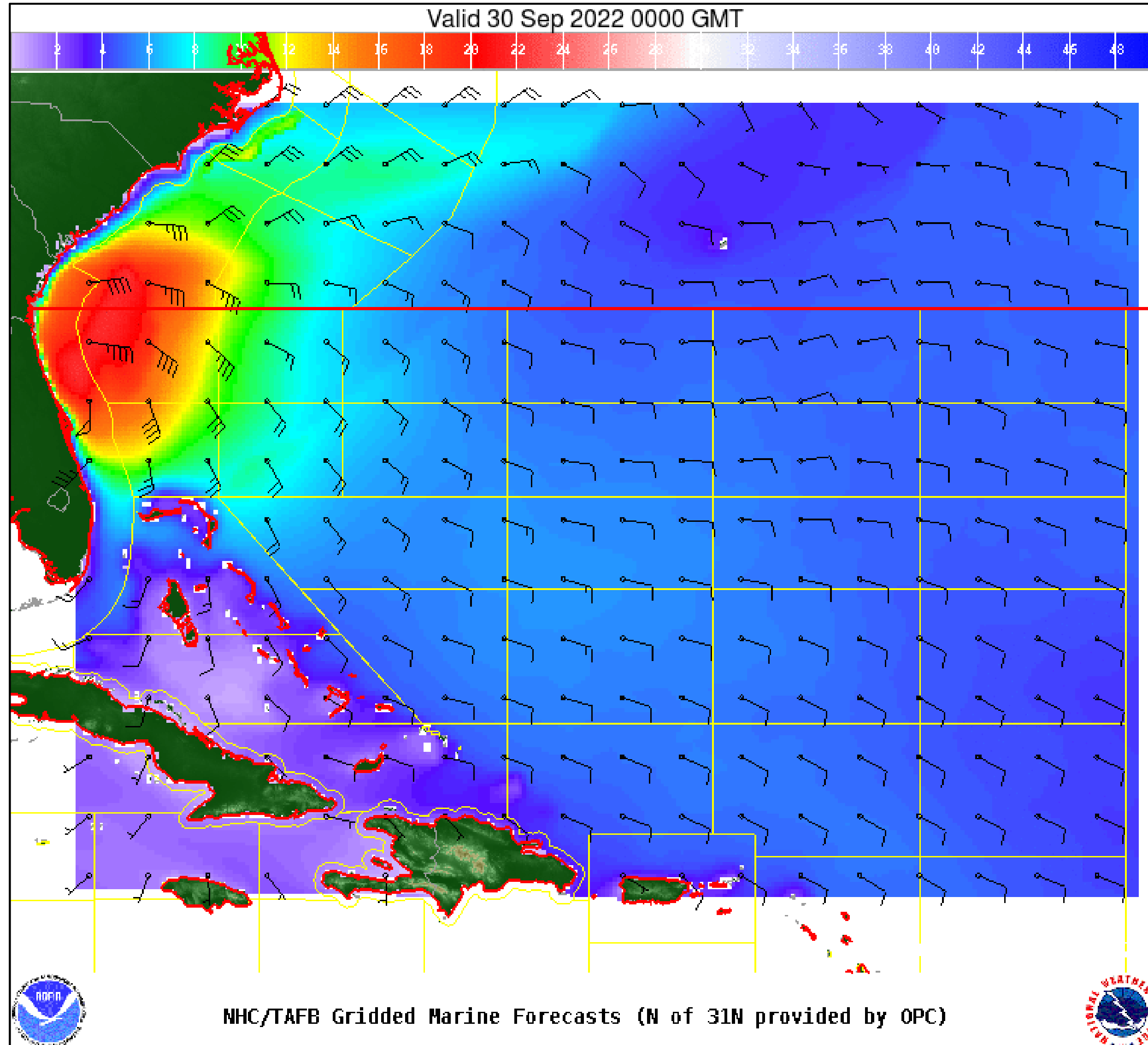
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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24 Hour Forecast

8pm EDT Thursday September 29

Peak Winds: 55 kt

Peak Seas: 20 ft

■ Wave heights are in feet



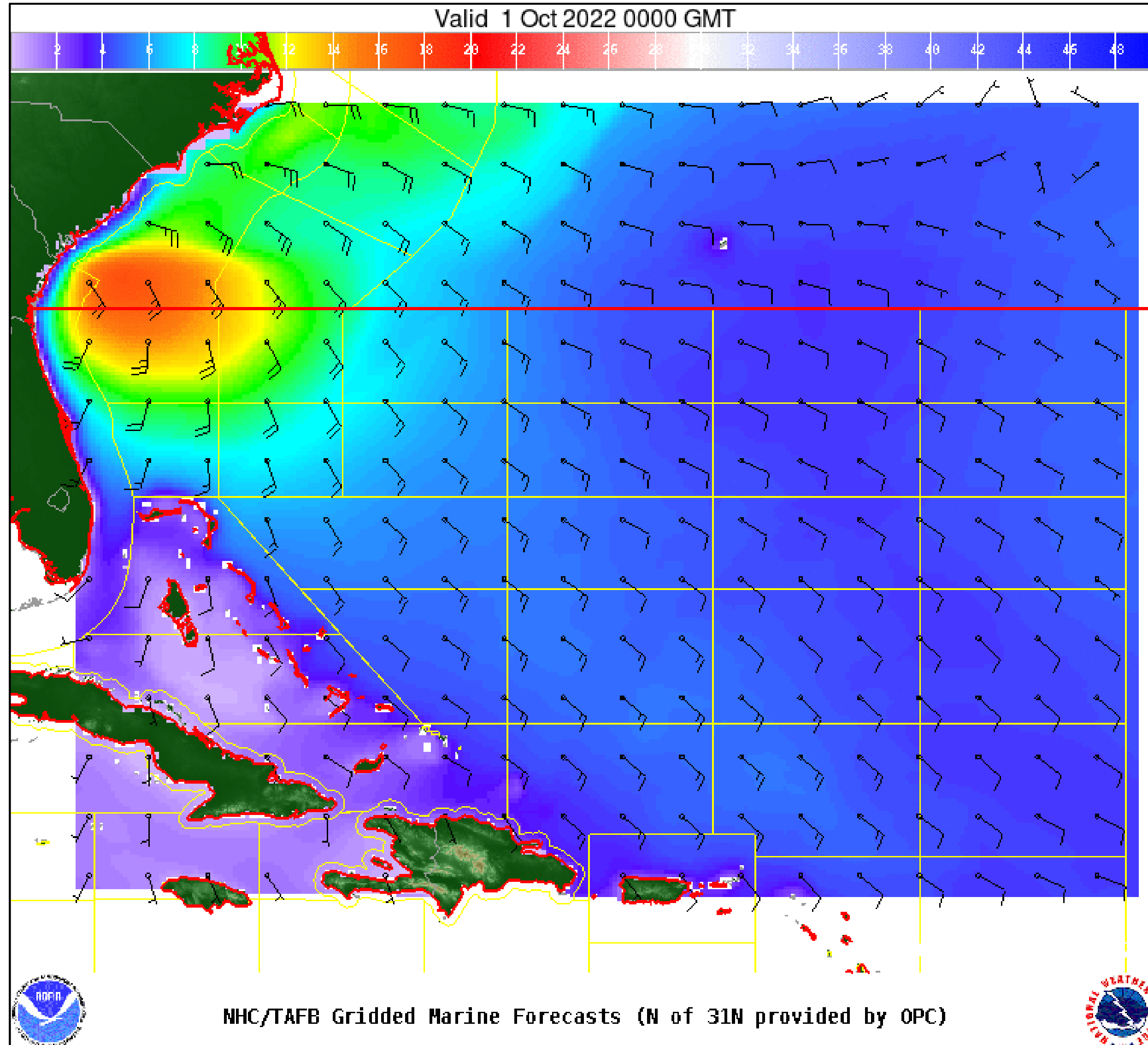
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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48 Hour Forecast

8pm EDT Friday September 30

Peak Winds: 45 kt

Peak Seas: 18 ft

■ Wave heights are in feet



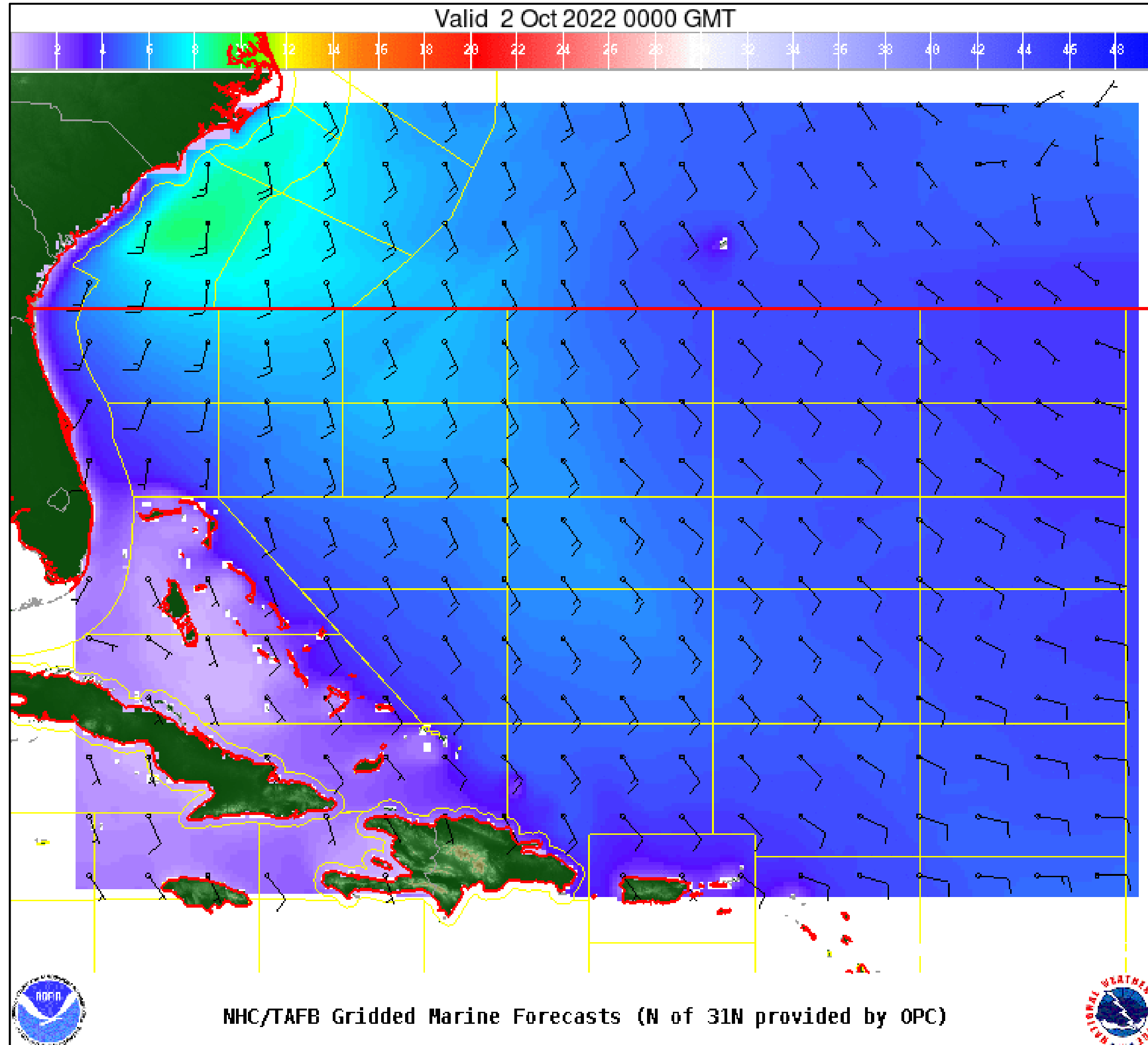
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



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72 Hour Forecast

8pm EDT Saturday October 1

Peak Winds: 25 kt

Peak Seas: 8 ft

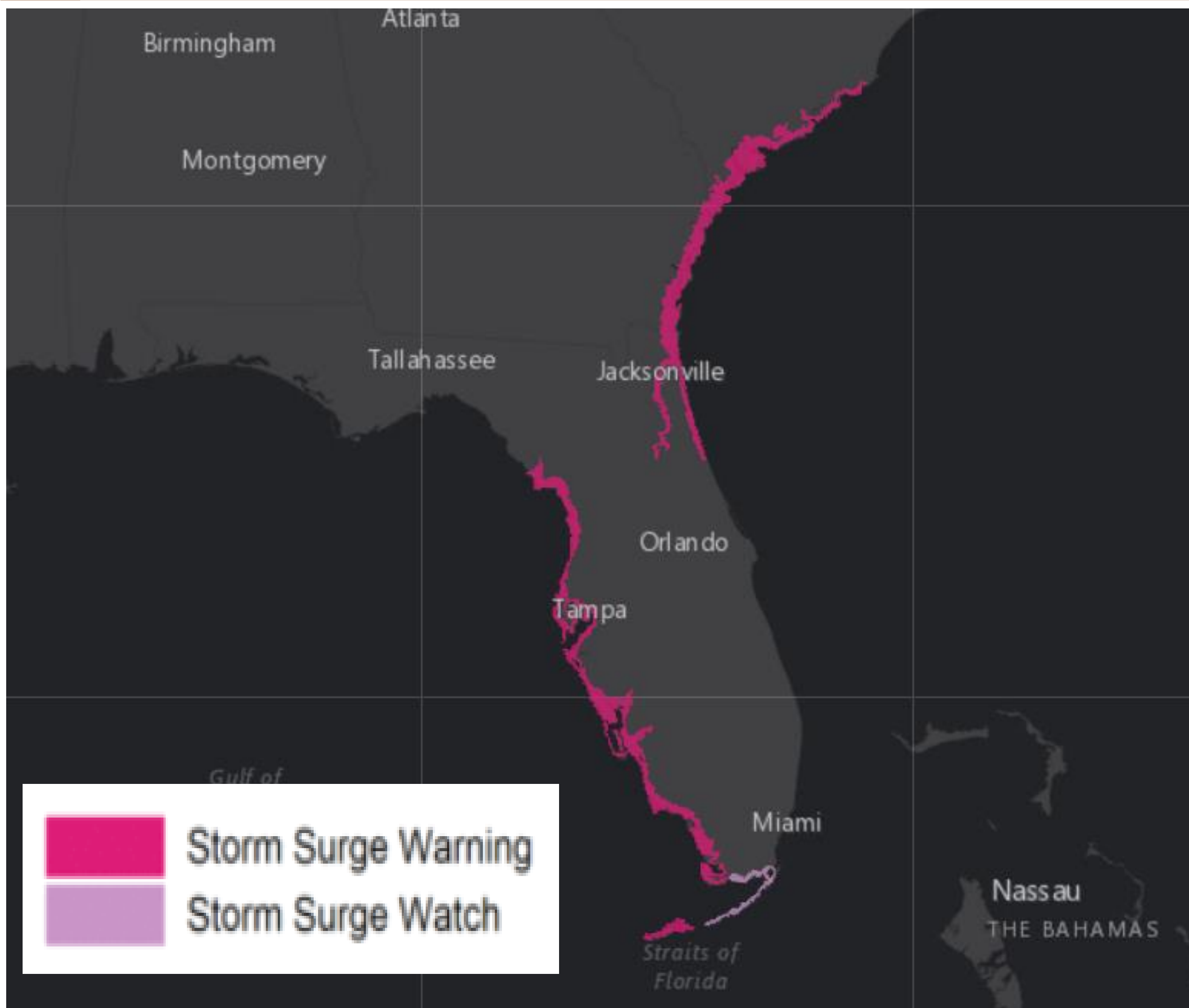
■ Wave heights are in feet



Significant Wave Height (ft)



Hurricane Ian



A Storm Surge Warning is in effect for...

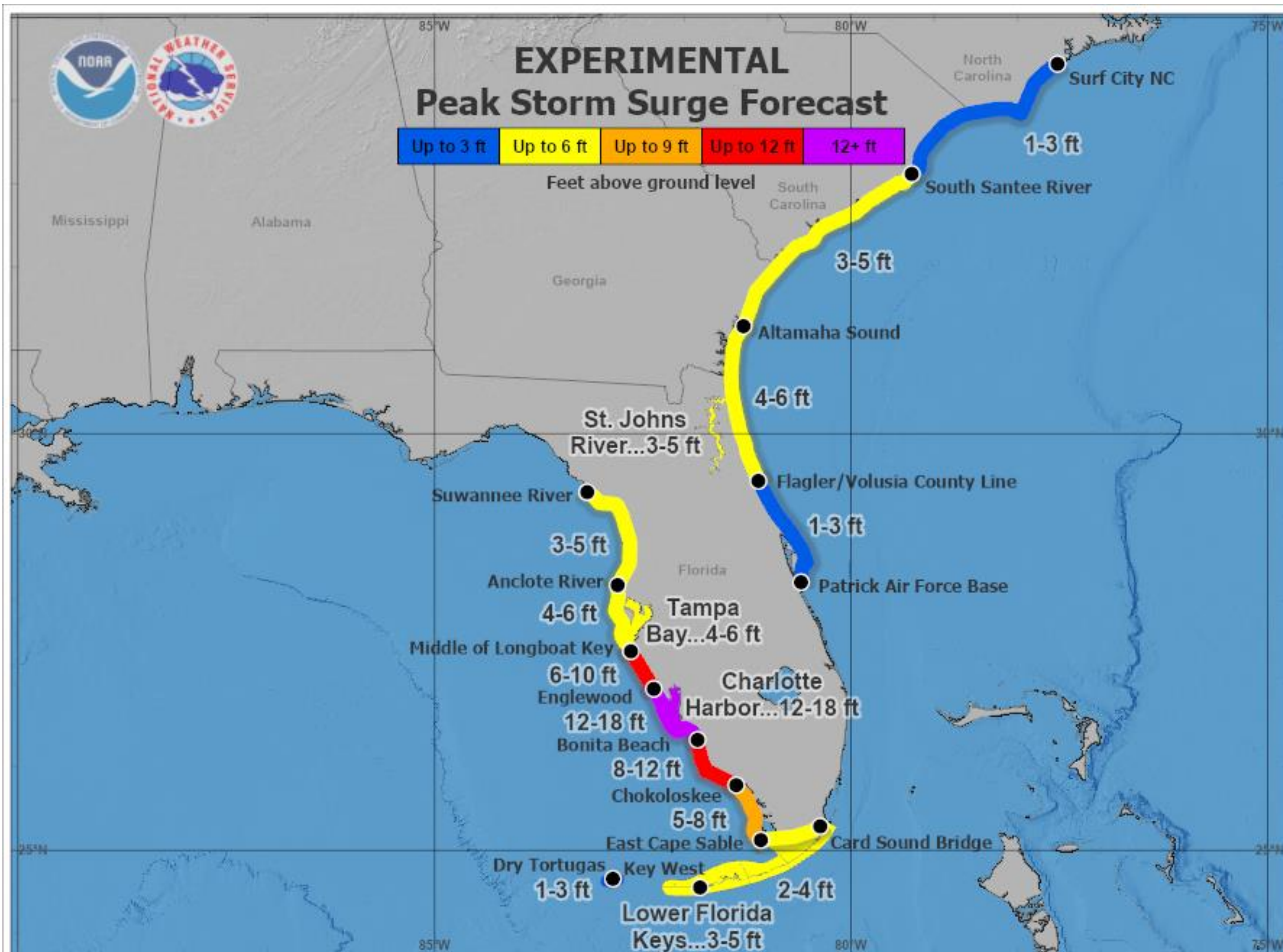
- * Suwannee River southward to Flamingo
- * Tampa Bay
- * Lower Florida Keys from Big Pine Key westward to Key West
- * Flagler/Volusia Line to the mouth of the South Santee River
- * St. Johns River

Potential Peak Storm Surge



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NWS National Hurricane Center

Hurricane Ian



Hurricane Ian
Wednesday September 28, 2022
02 PM EDT Advisory 24A
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.

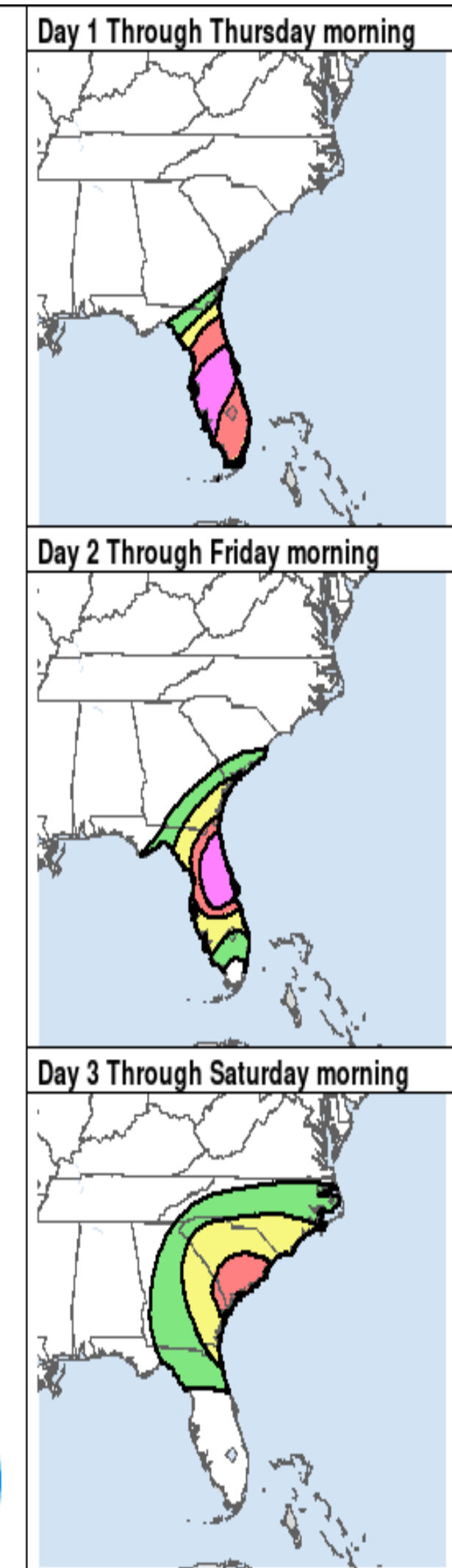
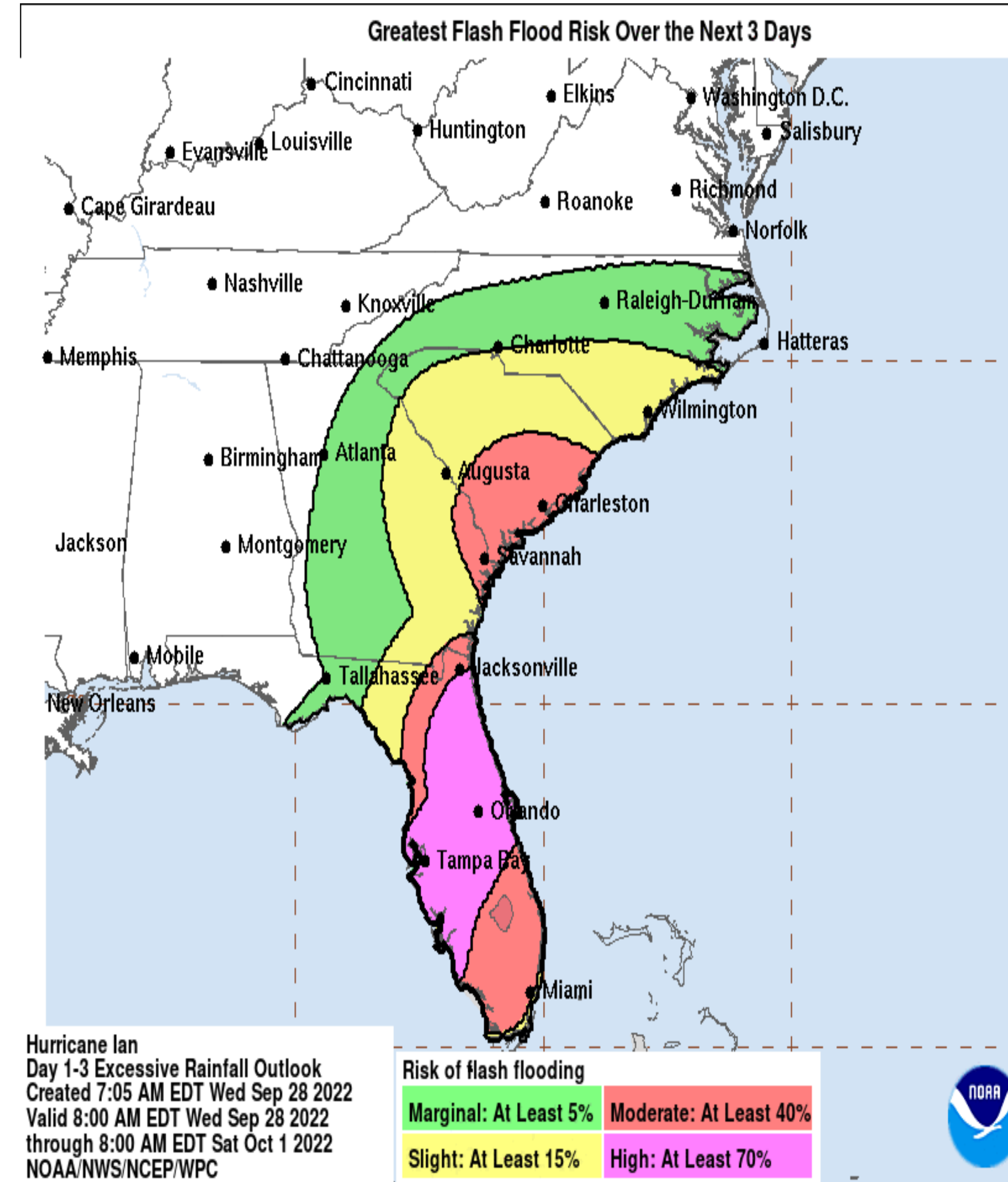
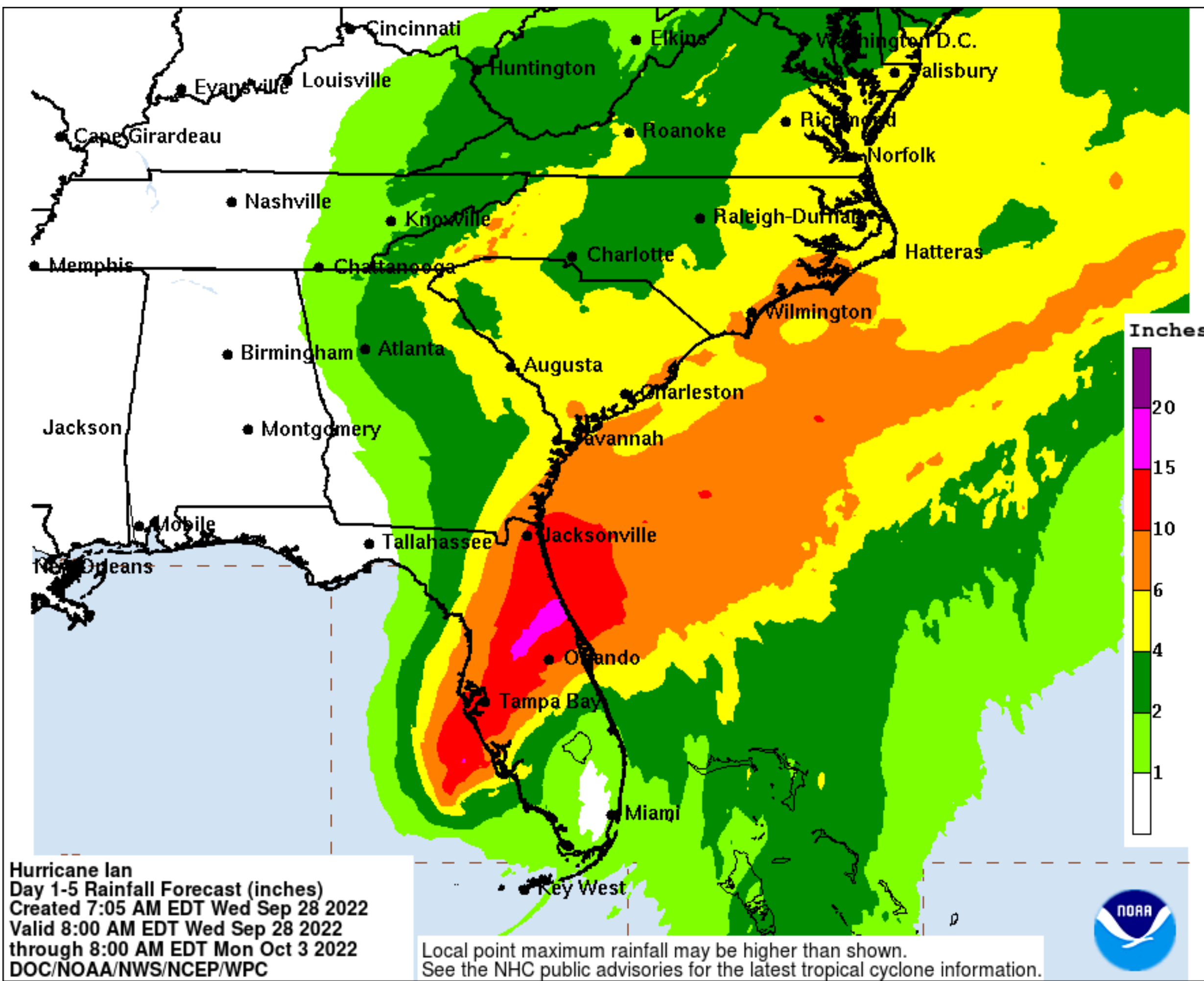
Expected Storm Total Rainfall and Chance of Rainfall Flooding



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Hurricane Ian

Images from NWS Weather Prediction Center



Valid through Monday morning

Valid through Saturday morning

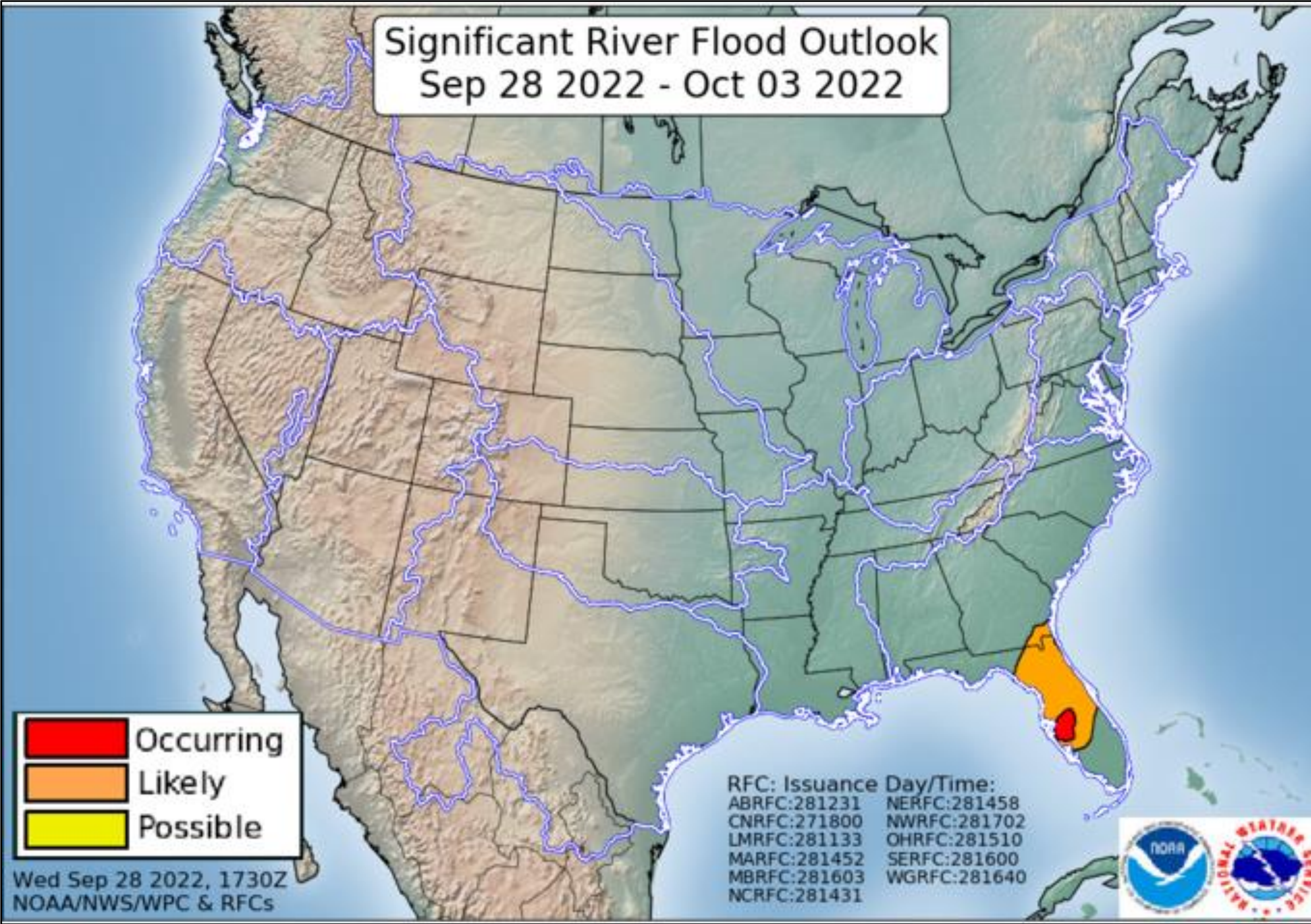
Flood Outlook

Hurricane Ian



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Significant River Flood Outlook
Sep 28 2022 - Oct 03 2022



Occurring
Likely
Possible

RFC: Issuance Day/Time:
ABRFC:281231 NERFC:281458
CNRFC:271800 NWRFC:281702
LMRFC:281133 OHRFC:281510
MARFC:281452 SERFC:281600
MBRFC:281603 WGRFC:281640
NCRFC:281431

Wed Sep 28 2022, 1730Z
NOAA/NWS/WPC & RFCs



Key Messages

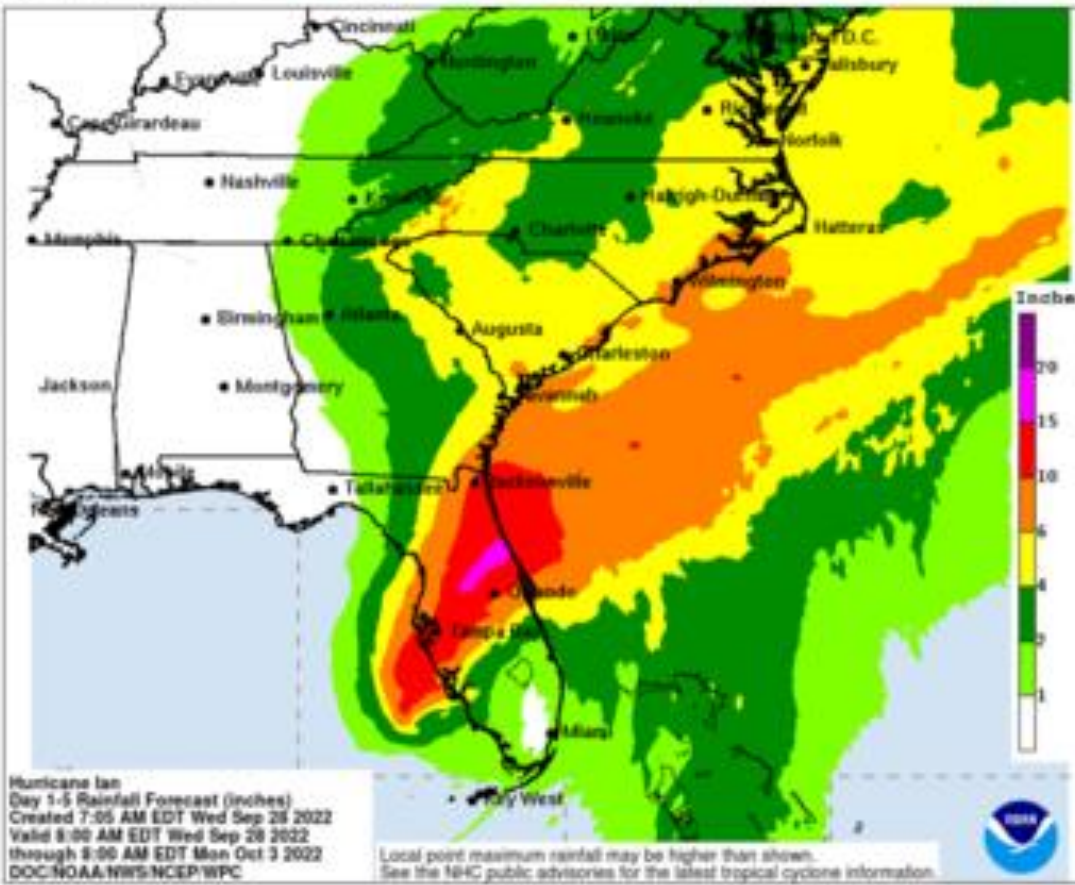

Hurricane Ian



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Key Messages for Hurricane Ian
Advisory 24: 11:00 AM EDT Wed Sep 28, 2022

1. Catastrophic storm surge inundation of 12 to 18 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 beginning along the southwestern coast of Florida today near the landfall location. Hurricane-force winds are expected to extend well inland along near the core of Ian. 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 is expected across central Florida.
4. Hurricane conditions are expected along the east-central Florida coast overnight, where a Hurricane Warning has been issued. Hurricane conditions are possible from northeastern Florida to portions of South Carolina on Thursday and Friday, and a Hurricane Watch has been issued for that area.



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 ft, but diminish by 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:
Thursday 9:00 AM EDT*

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

