

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

**Winds – High**

**Storm Surge – Moderate to High**

**Rainfall/Flash Flooding – Slight to Moderate**

**Tornadoes – None**

**Waves - High**

# TROPICAL DEPRESSION TEN BRIEFING

9:00 AM EST

Sunday, August 27, 2023

Prepared by:

**Amanda Reinhart**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*



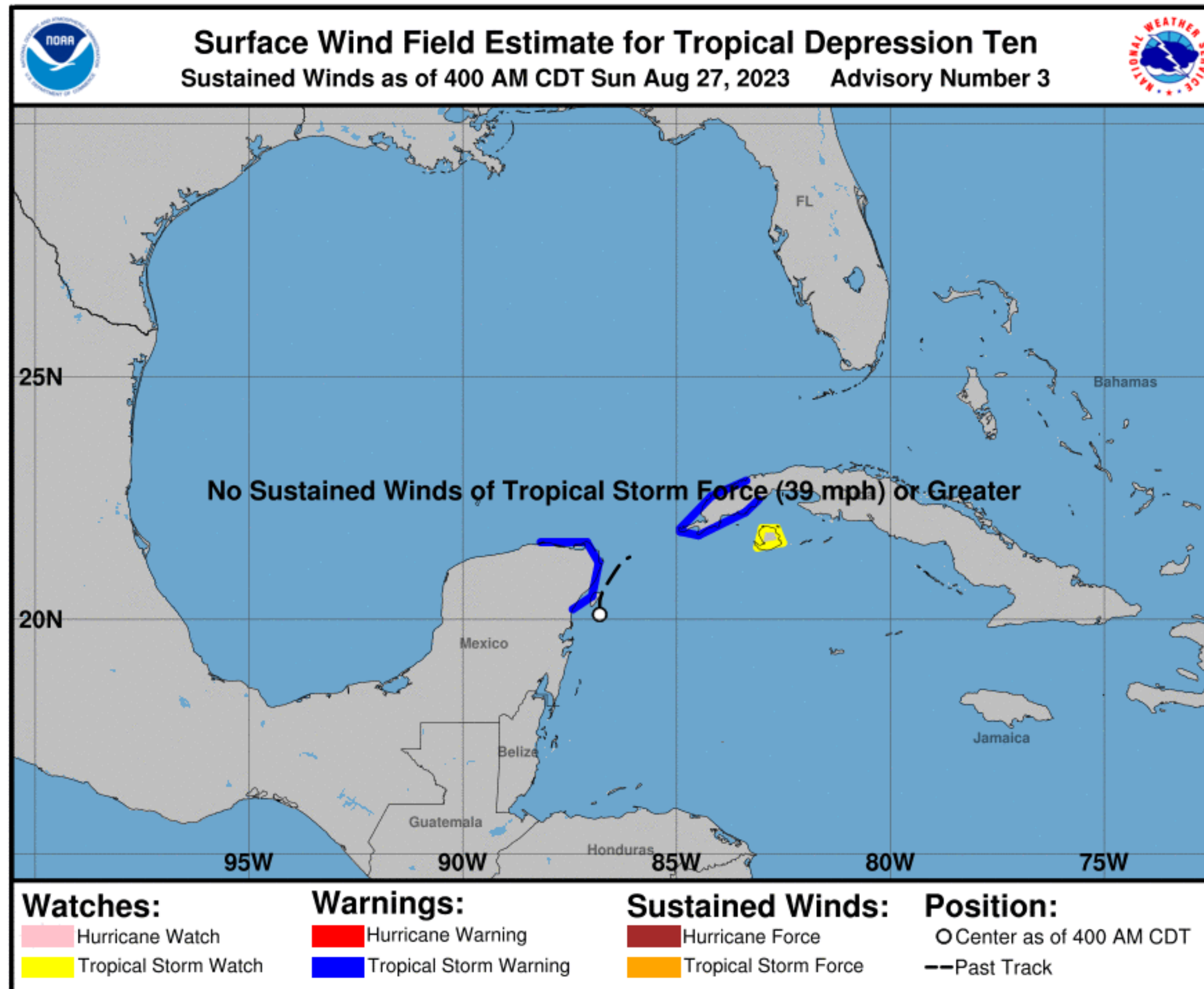


# Situation Overview

## Tropical Depression Ten



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



**...DEPRESSION NEARING TROPICAL  
STORM INTENSITY...  
...EXPECTED TO STRENGTHEN INTO A  
HURRICANE OVER THE EASTERN GULF  
OF  
MEXICO IN A COUPLE OF DAYS...**

### Summary of 800 AM EDT

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Location... 19.7N 86.3W

About 60 nm SE of Cozumel Mexico

Maximum Sustained Winds... 30 kt

Present Movement... SE at 4 kt (nearly stationary)

Peak Seas: 10 ft

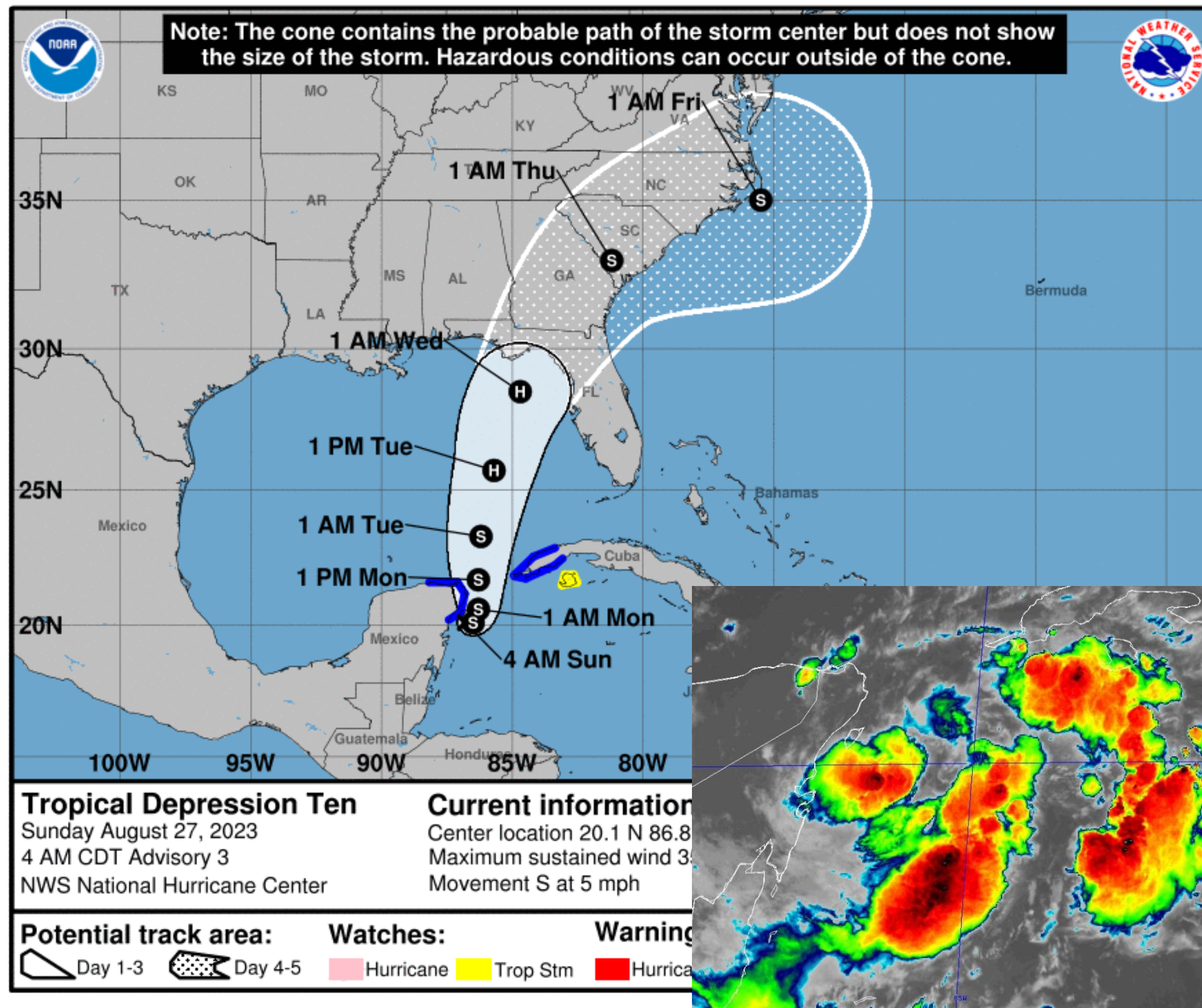


# Forecast Information

## Tropical Depression Ten



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

- TD Ten will meander in the NW Caribbean/Yucatan Peninsula today
- Ten will begin moving northward by Mon into the SE Gulf of Mexico followed by a turn to the NE
- Ten is expected to strengthen into a Tropical Storm later today and into a hurricane as it moves farther into the Gulf of Mexico
- There is potential for rapid intensification but both the forecast track and intensity is uncertain at this time

- 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.

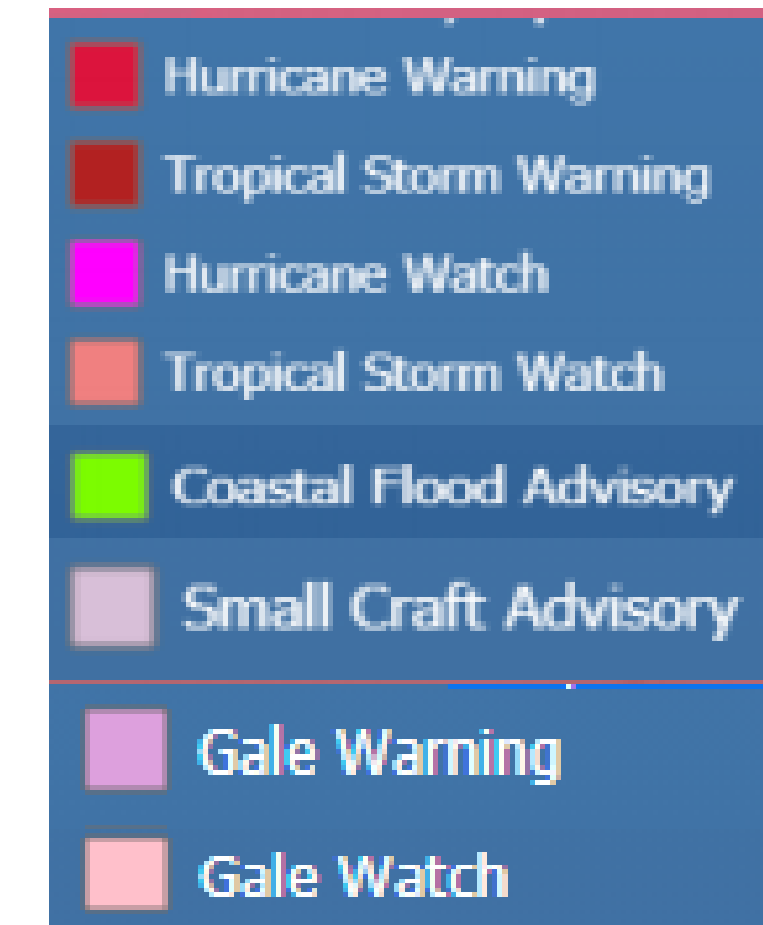
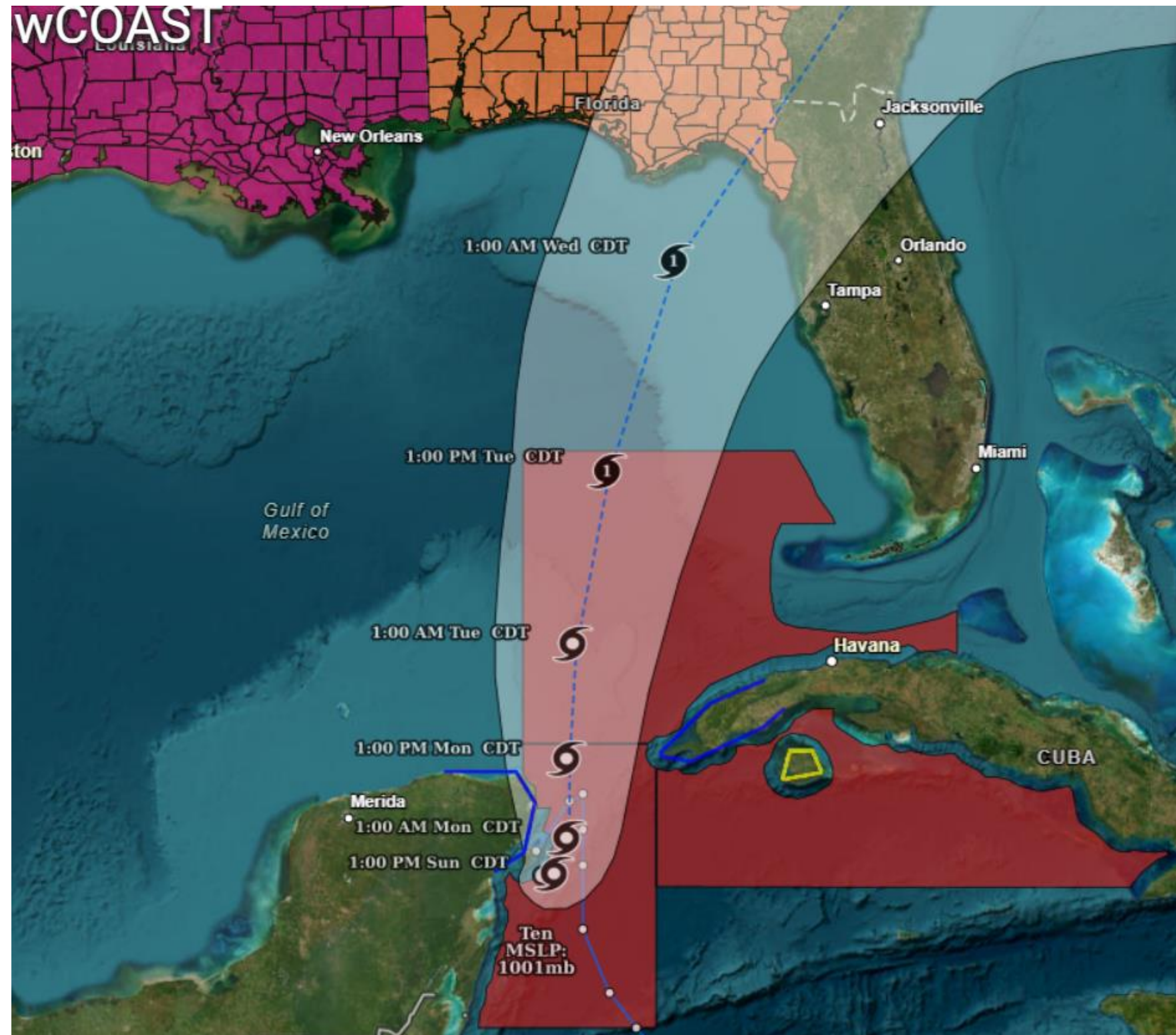


# Hazards Map

## Tropical Depression Ten



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



<https://nowcoast.noaa.gov/>

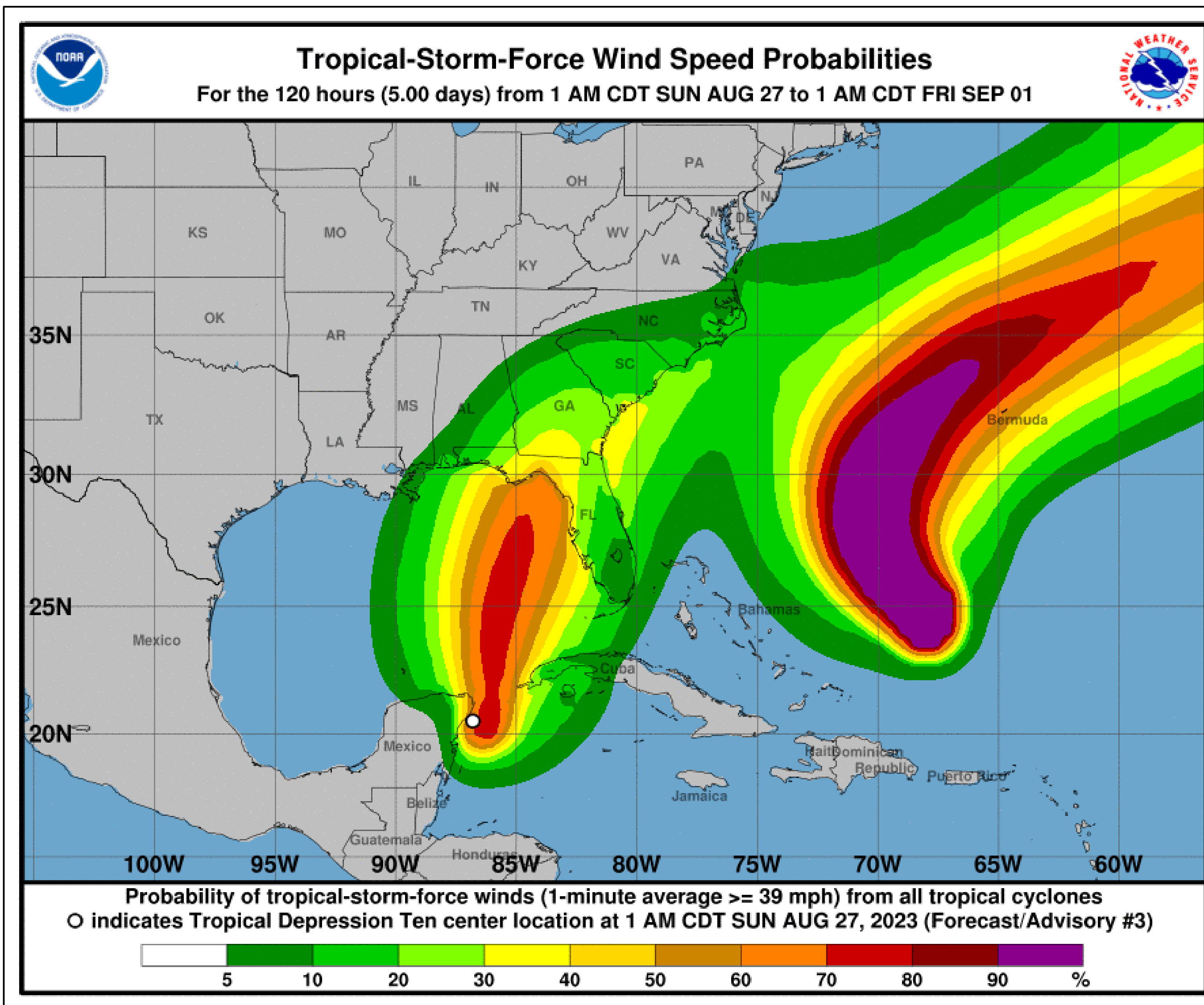


# T.S. Wind Speed Probabilities

## Tropical Depression Ten



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- CHARLESTON SC 30%
- BEAUFORT SC 40%
- SAVANNAH GA 20%
- KINGS BAY GA 40%
- JACKSONVILLE 20%
- COCOA BEACH FL 20%
- FT LAUDERDALE 10%
- MIAMI FL 5%
- KEY WEST FL 20%
- NAPLES FL 30%
- TAMPA FL 50%
- CEDAR KEY FL 60%
- TALLAHASSEE FL 40%
- APALACHICOLA FL 60%
- PANAMA CITY FL 50%
- PENSACOLA FL 10%
- MOBILE AL 5%
- GULFPORT MS 5%

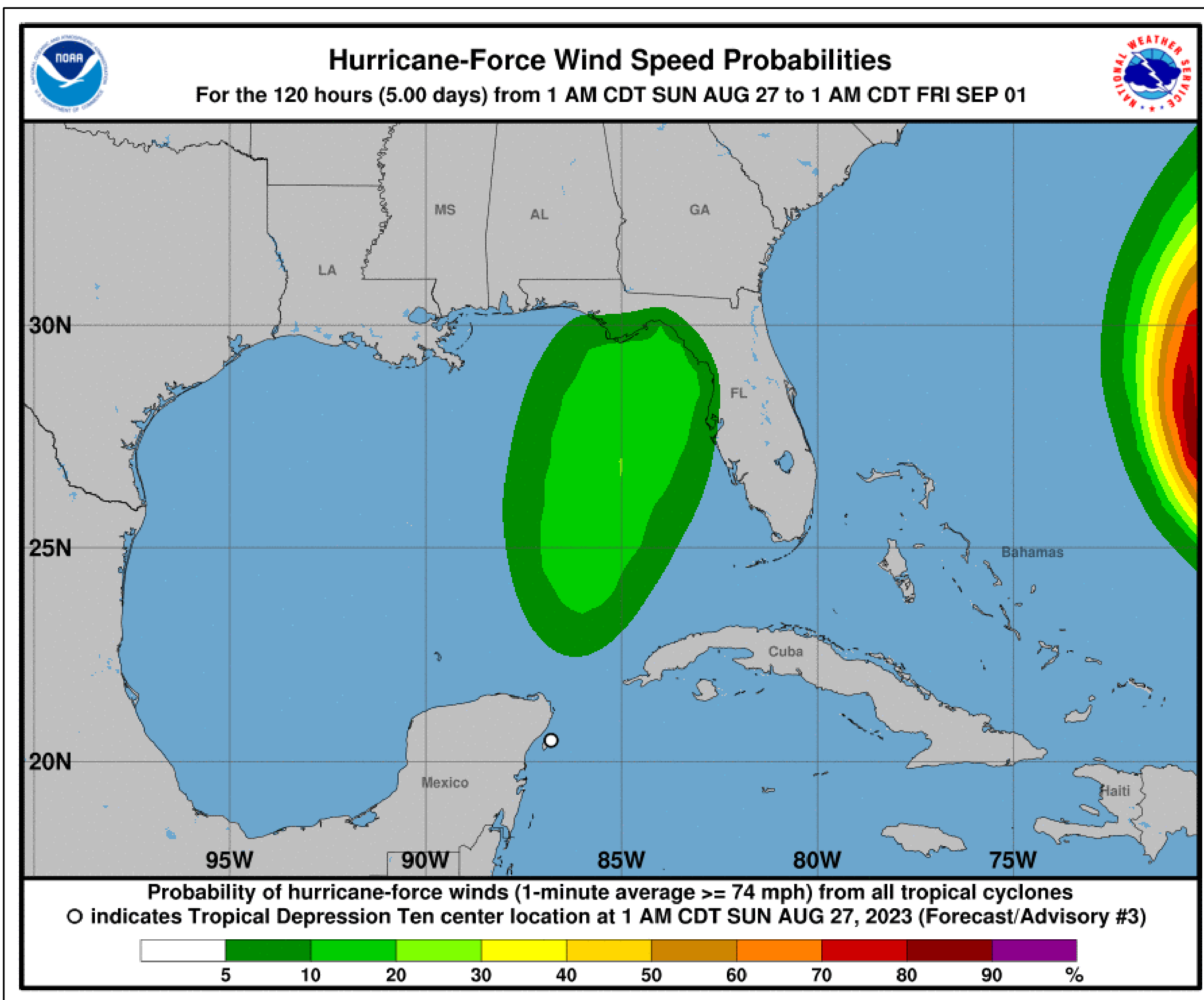
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color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

# Hurricane Wind Speed Probabilities

Tropical Depression Ten



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



- TAMPA FL 5%
- CEDAR KEY FL 10%
- APALACHICOLA FL 10%
- PANAMA CITY FL 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.

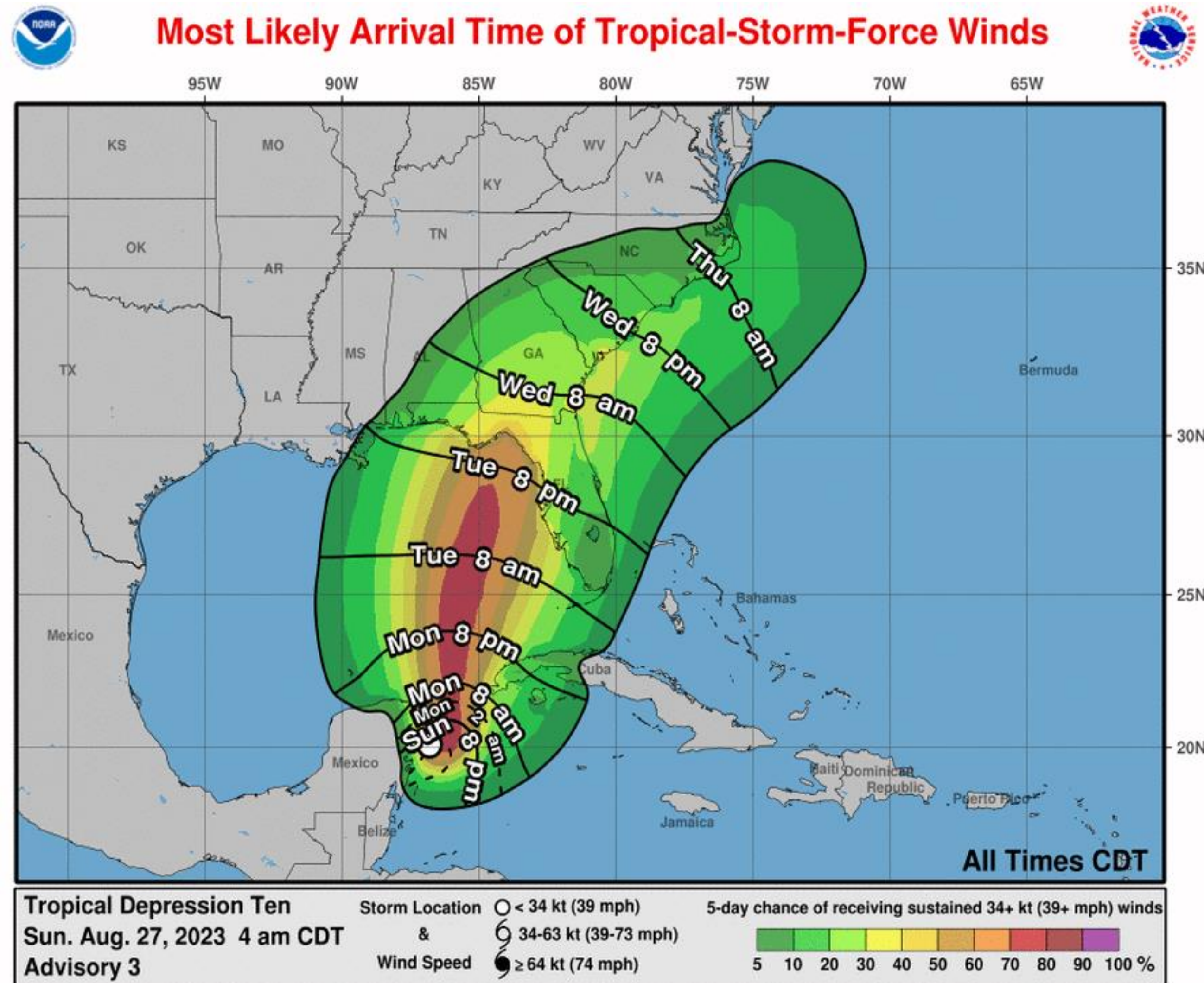


## Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

# Tropical Depression Ten



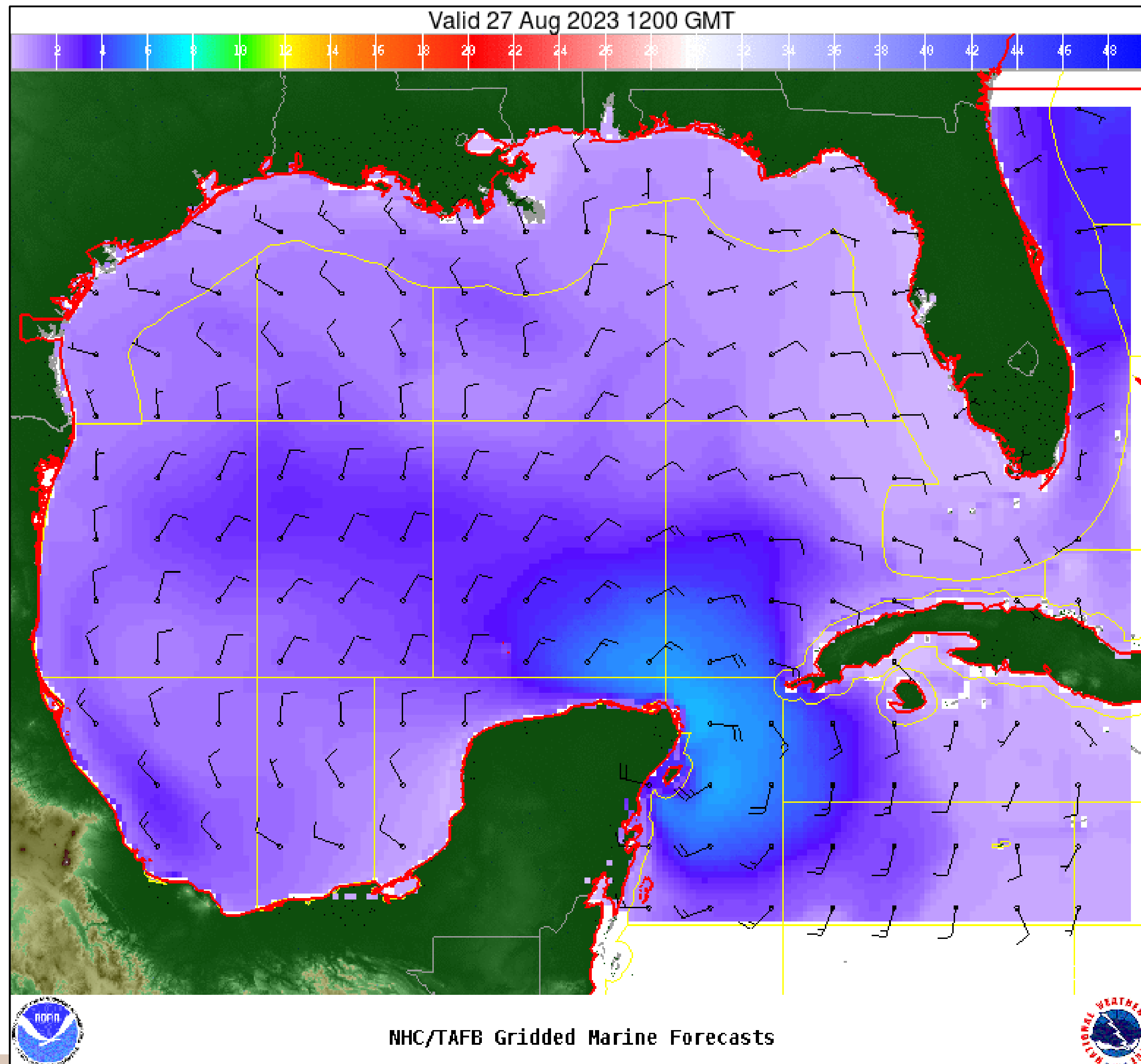
- Tampa – Tue night
  - Florida Big Bend – Tue night
- 
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
  - Clear or dark green are the lowest chances of 0-30%.
  - Yellow to orange is 31-70%
  - Red through purple are the highest probabilities of 71%-100%
  - See the color bar below the image for more details.



# Wind And Waves



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NWS National Hurricane Center



## Current Conditions

8am Sunday, Aug 27

Peak Winds: 30 kt

Peak Seas: 6 ft

■ Wave heights are in feet



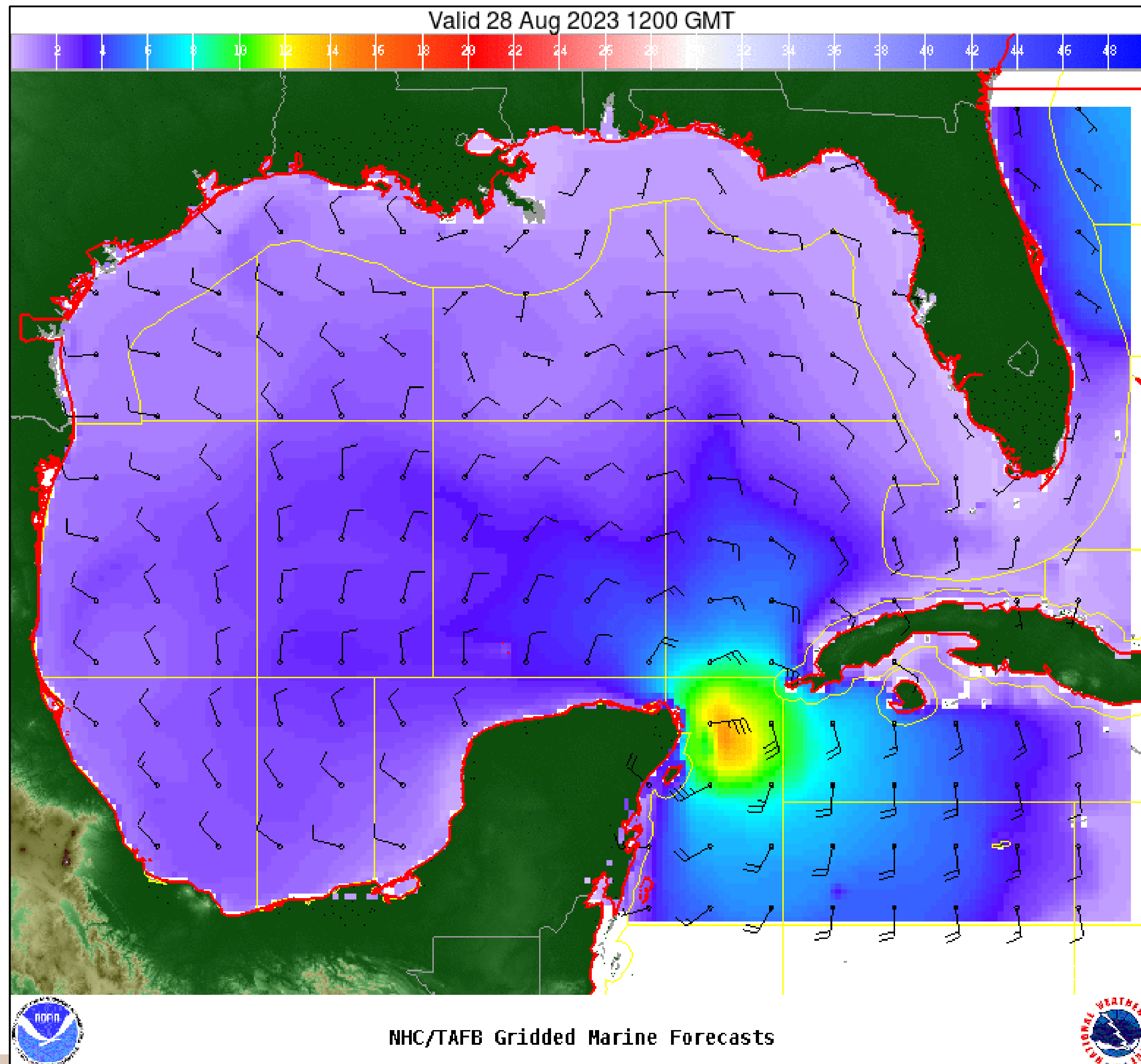
Significant Wave Height (ft)



# Wind And Waves



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## 24 Hour Forecast

8am Monday, Aug 28

Peak Winds: 45 kt

Peak Seas: 15 ft

■ Wave heights are in feet



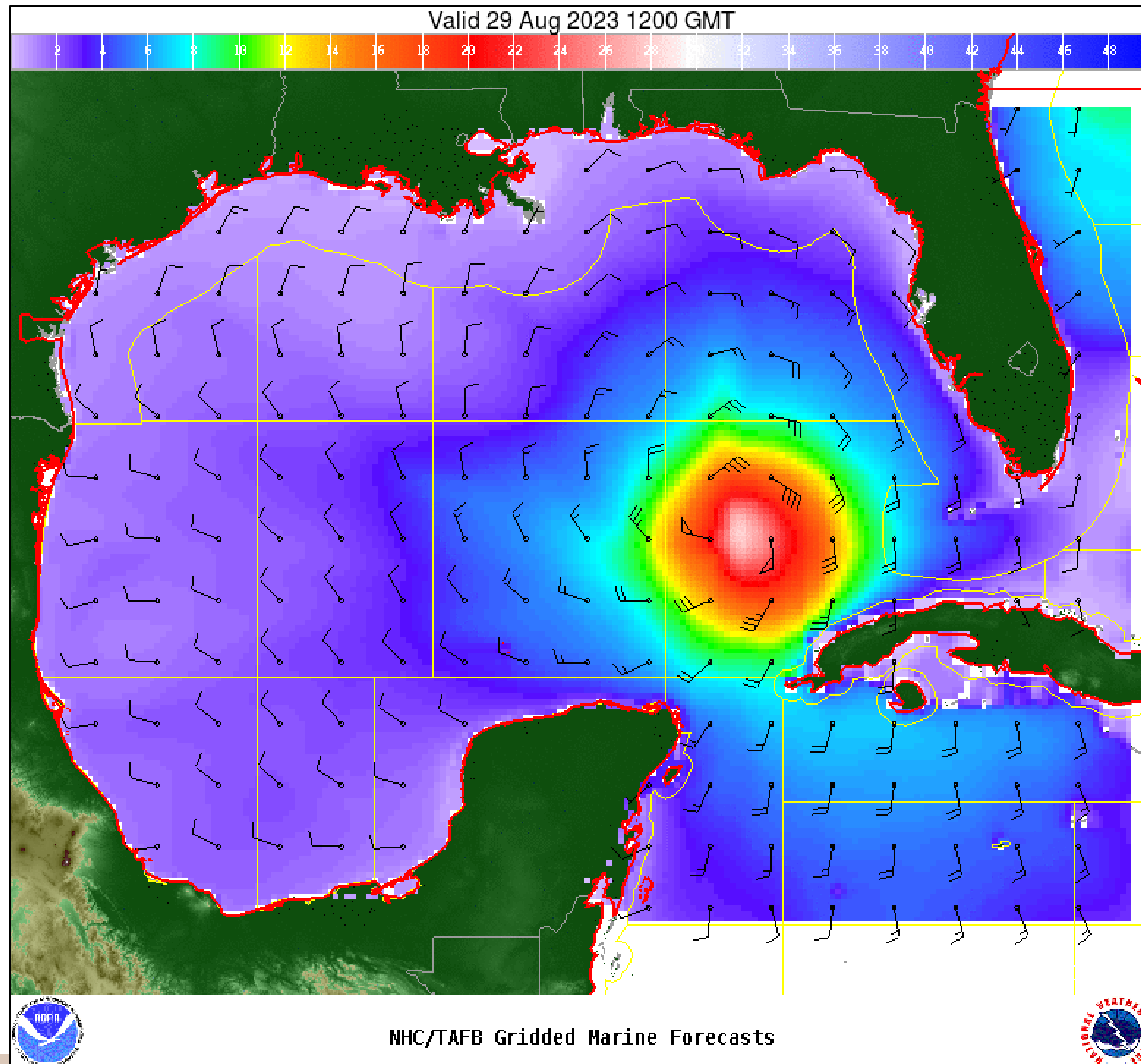
Significant Wave Height (ft)



# Wind And Waves



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48 Hour Forecast  
8am Tuesday, Aug 29  
Peak Winds: 70 kt  
Peak Seas: 30 ft

■ Wave heights are in feet



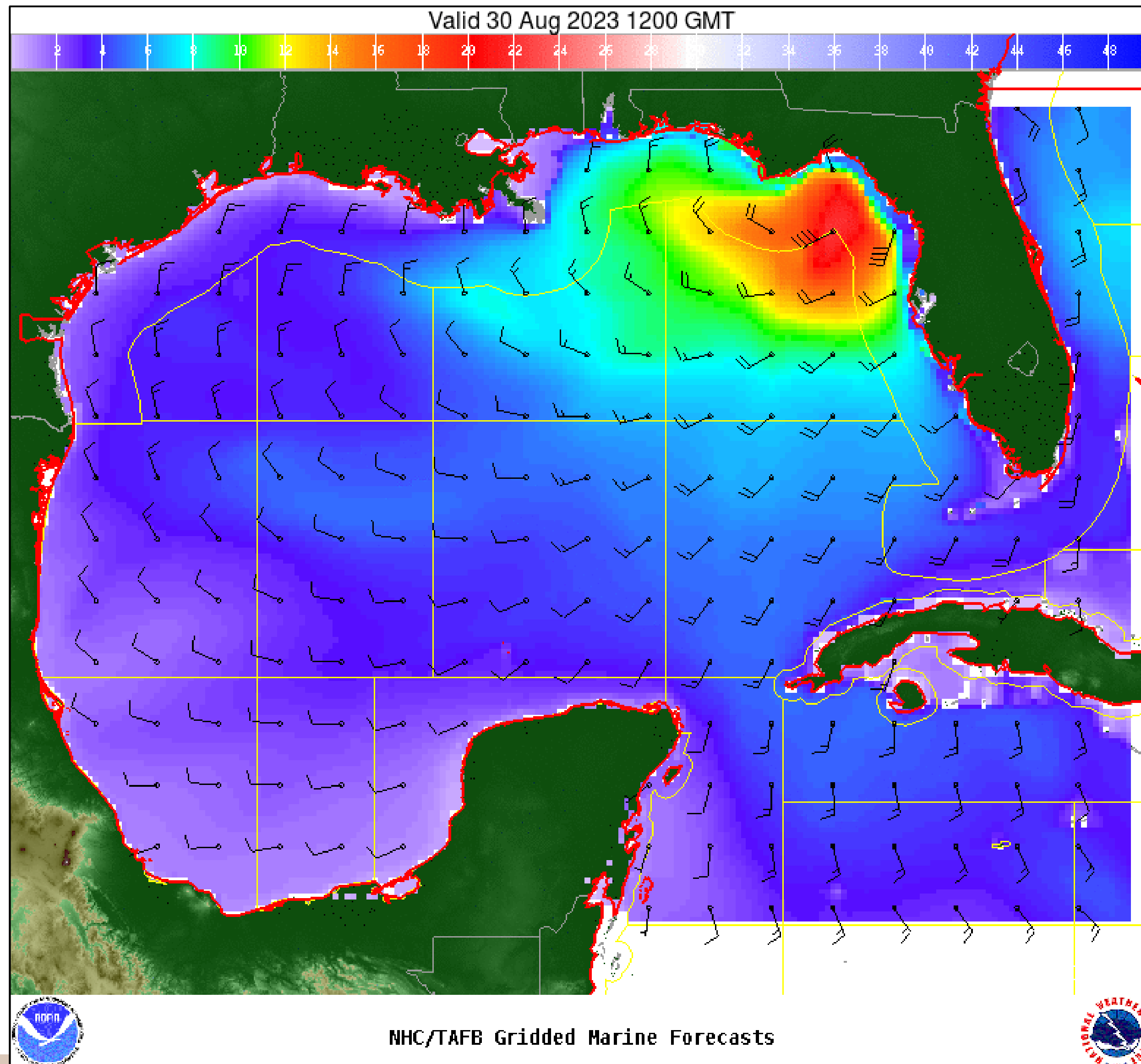
Significant Wave Height (ft)



# Wind And Waves



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72 Hour Forecast

8am Wednesday, Aug 30

Peak Winds: 65 kt

Peak Seas: 20 ft

■ Wave heights are in feet



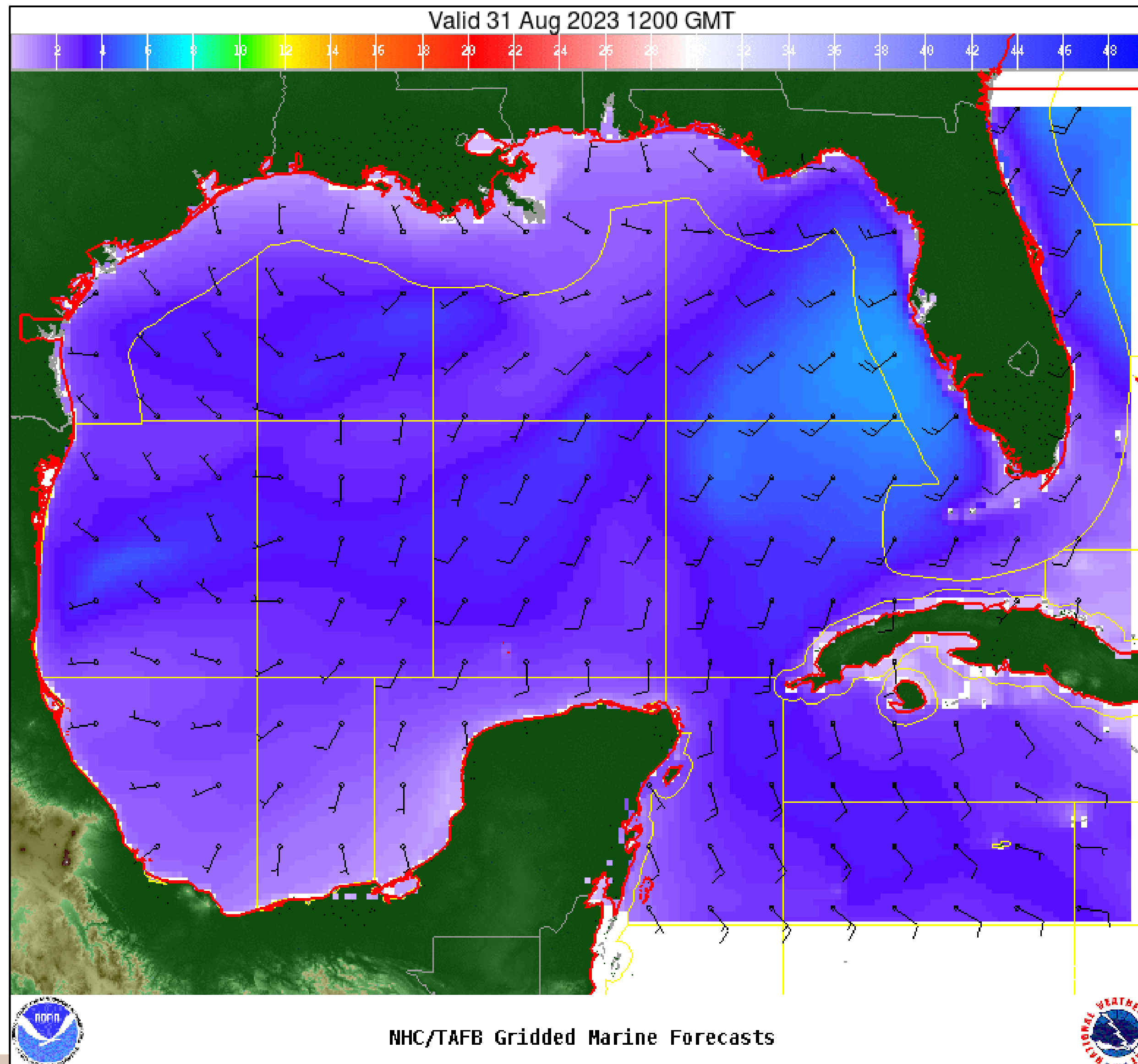
Significant Wave Height (ft)



# Wind And Waves



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



96 Hour Forecast  
**8am Thursday, Aug 31**  
Peak Winds: 20 kt  
Peak Seas: 6 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 Depression Ten

Storm surge watches/warnings will likely be issued later today

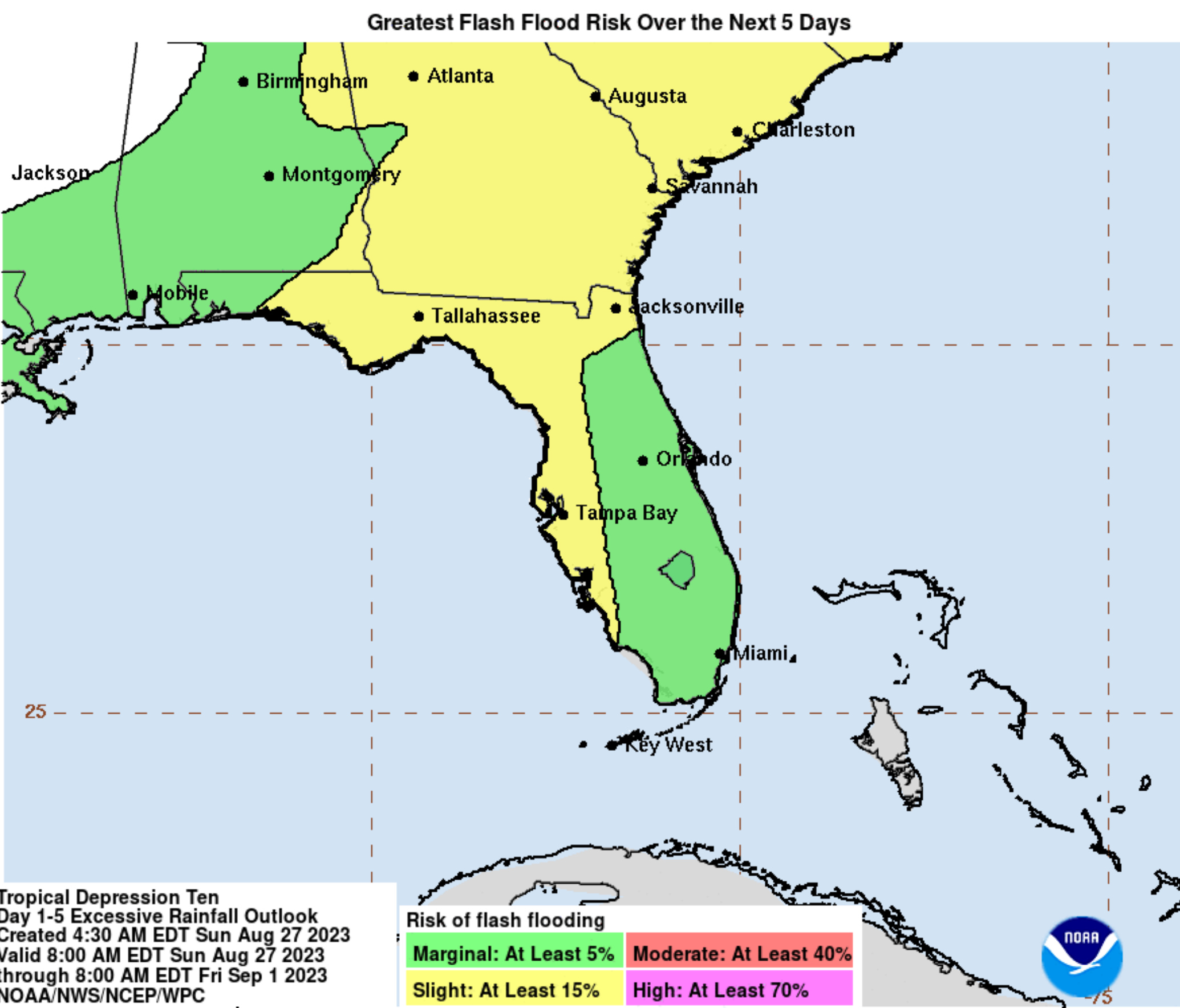
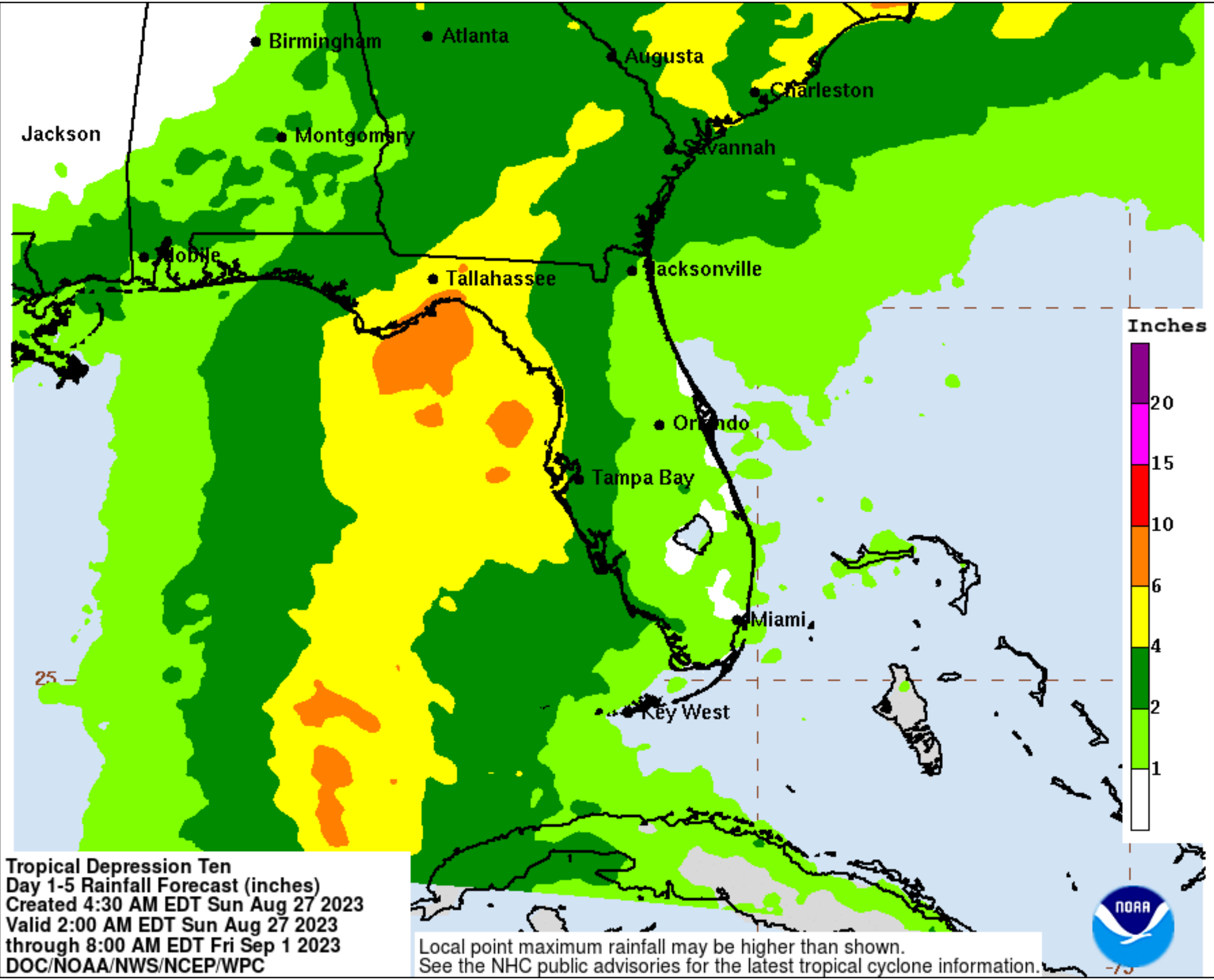
# Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Tropical Depression Ten

Images from NWS Weather Prediction Center



Total rainfall in inches valid through  
Friday morning





# Key Messages

## Tropical Depression Ten



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center





### Key Messages for Tropical Depression Ten

Advisory 3: 4:00 AM CDT Sun Aug 27, 2023

1. Heavy rainfall from Tropical Depression Ten is expected across the eastern Yucatan Peninsula and western Cuba. The heavy rainfall may produce areas of flash and urban flooding, as well as landslides, across western Cuba. The depression is forecast to become a tropical storm later today, and tropical storm conditions are expected over portions of the Yucatan Peninsula and extreme western Cuba where a Tropical Storm Warning is in effect. Tropical storm conditions are possible on the Isle of Youth, where a Tropical Storm Watch is in effect.

2. The depression is forecast to strengthen during the next few days and could become a hurricane over the eastern Gulf of Mexico, bringing a potential of dangerous storm surge, heavy rainfall, and strong winds to portions of the west coast of Florida and the Florida Panhandle by the middle of this week. Heavy rainfall is also likely to spread into portions of the Southeast U.S. by mid to late week. Although it is too soon to specify the exact location and magnitude of these impacts, residents in these areas should monitor updates to the forecast of this system and ensure that they have their hurricane plan in place.



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

## IMPACTS FOR D7 (through next 5 days)

Winds – **High**

Storm Surge – **Moderate** to **High**

Rainfall/Flash Flooding – **Slight** to **Moderate**

Tornadoes – None

Waves - **High**

## Marine Key Messages:

- Seas will build in southeast Gulf of Mexico through Mon as TD Ten strengthens and lifts northward
- Seas are expected to build over 20 ft by Mon night into Tue in the eastern Gulf
- Seas will subside across the Gulf on Wed as Ten makes landfall and moves farther inland



# TROPICAL DEPRESSION TEN BRIEFING

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

*The Next Briefing Will Be:  
Monday 9:00 AM EST*

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



NHC\_TAFB

[www.nhc.noaa.gov](http://www.nhc.noaa.gov)