

IMPACTS FOR D7 (through next 5 days)

Winds – Moderate

Storm Surge – None

Rainfall/Flash Flooding – Moderate

Tornadoes – None

Waves - Low

TROPICAL STORM FRED BRIEFING



9:00 AM EDT

Wednesday, August 11, 2021

Prepared by:

Eric Christensen

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

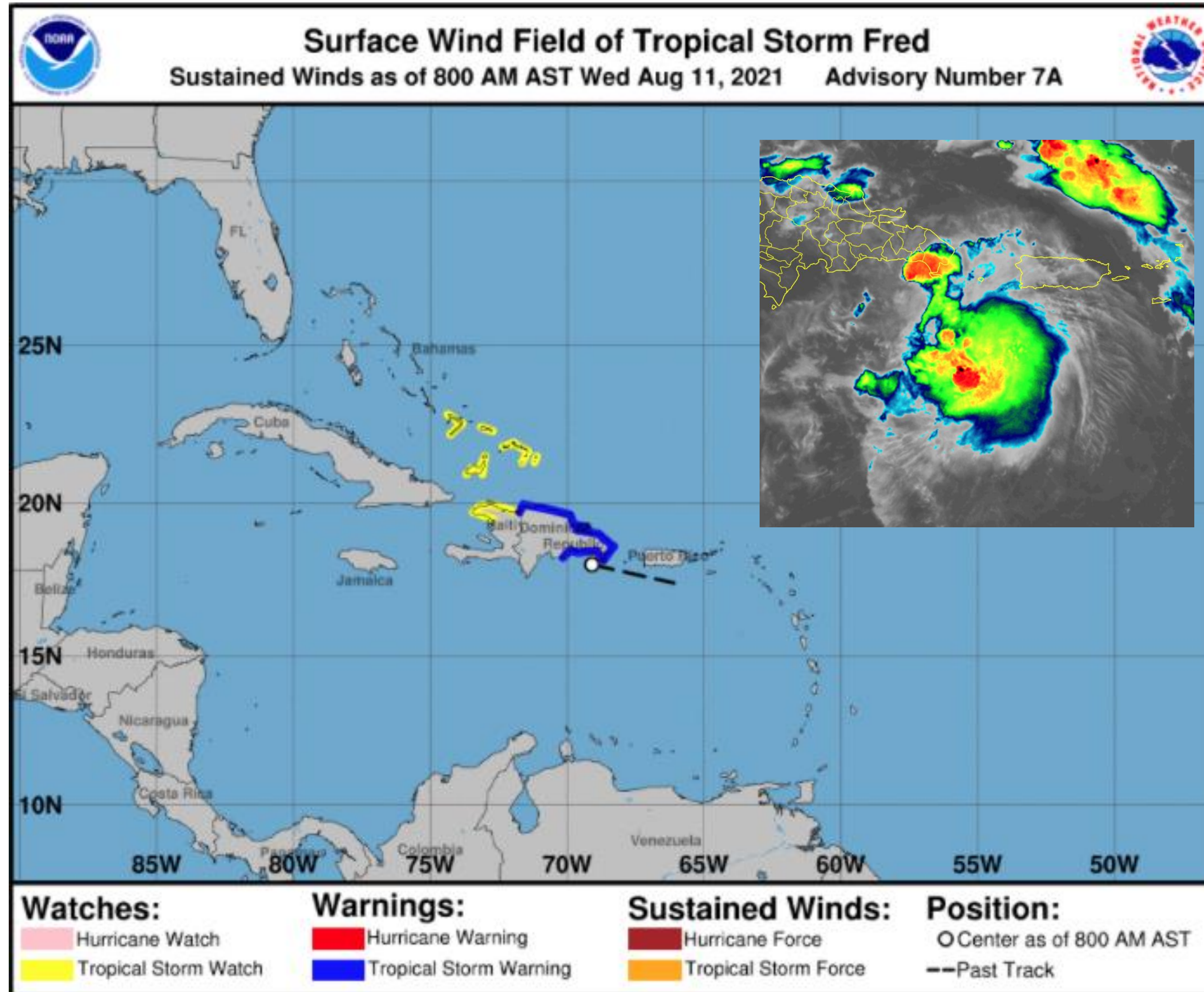


Situation Overview

Tropical Storm Fred



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...CENTER OF FRED JUST SOUTH OF THE EASTERN DOMINICAN REPUBLIC...

SUMMARY OF 800 AM EDT...INFORMATION

LOCATION...18.0N 69.1W
ABOUT 45 NM SE OF SANTO DOMINGO
DOMINICAN REPUBLIC
MAXIMUM SUSTAINED WINDS...35 KT
PRESENT MOVEMENT...WNW 14 KT
PEAK SEAS 9 FT

Forecast Information

Tropical Storm Fred



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

- **Fred may weaken through tonight as it interacts with Hispaniola**
- **Some re-strengthening may occur Thu as Fred moves back over water in the Old Bahama Channel**
- **Fred expected to be a minimal tropical storm approaching the Florida Keys by Fri night/early Sat.**
- 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

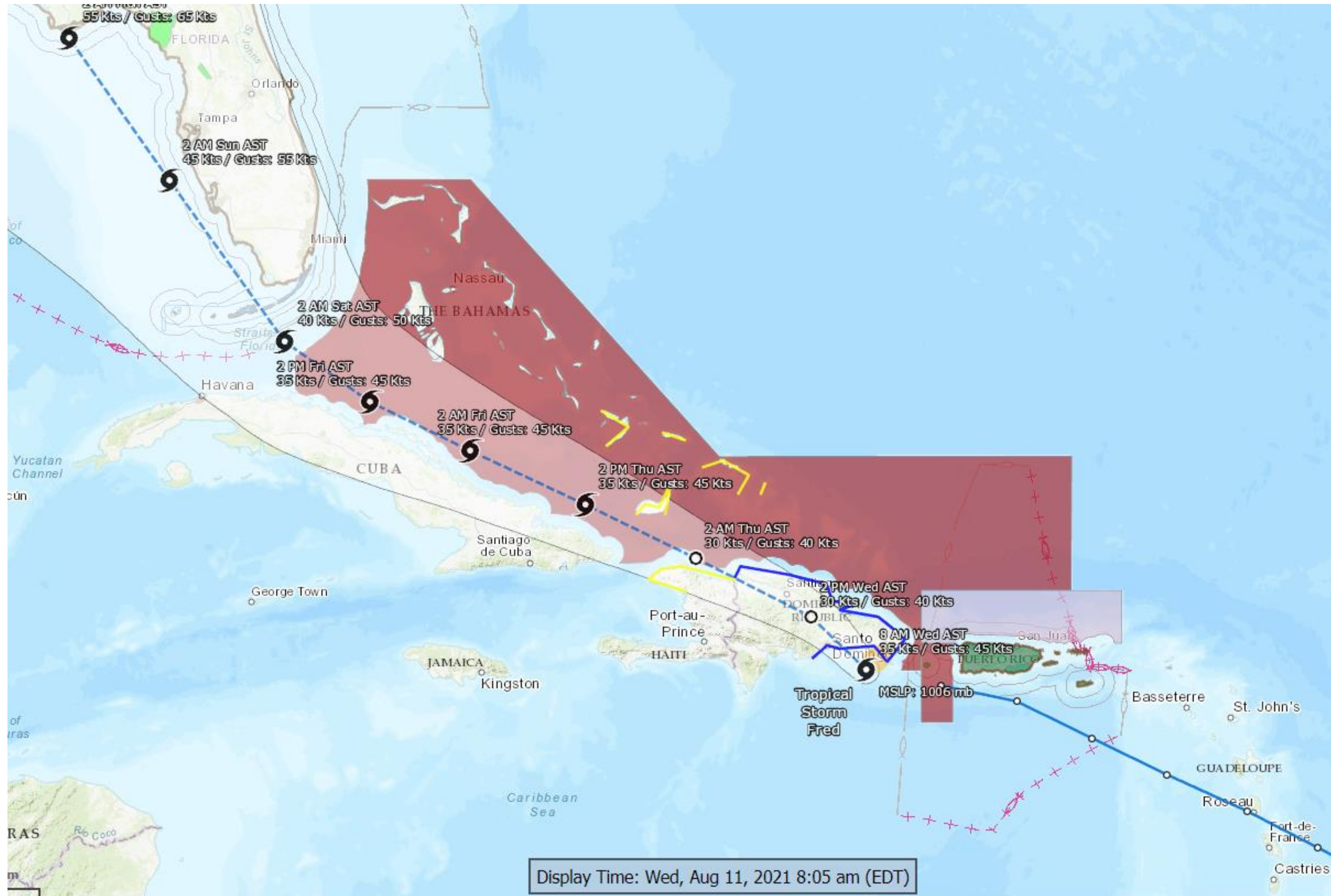
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Fred



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 Tropical Storm Warning

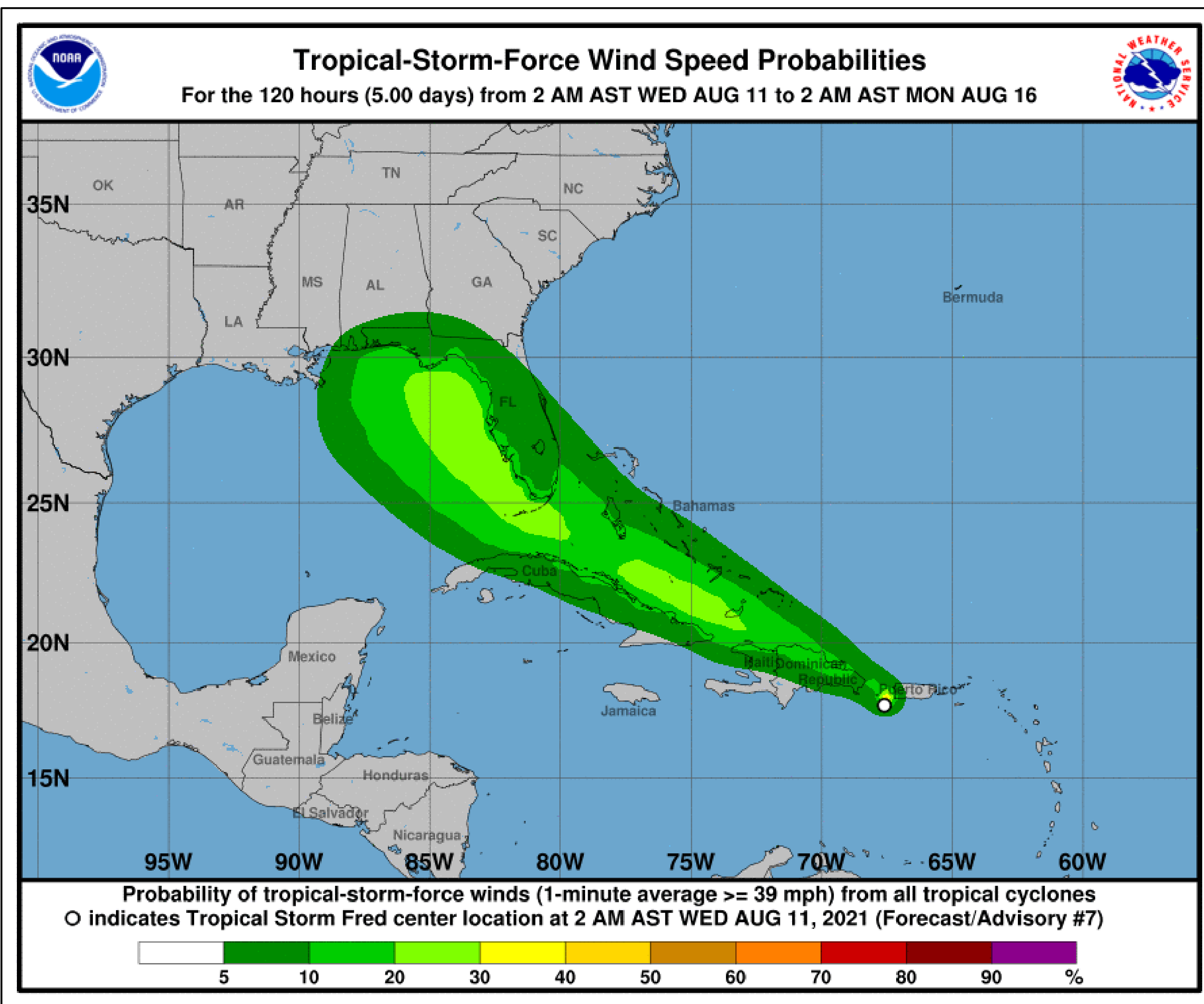
■ <https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Fred



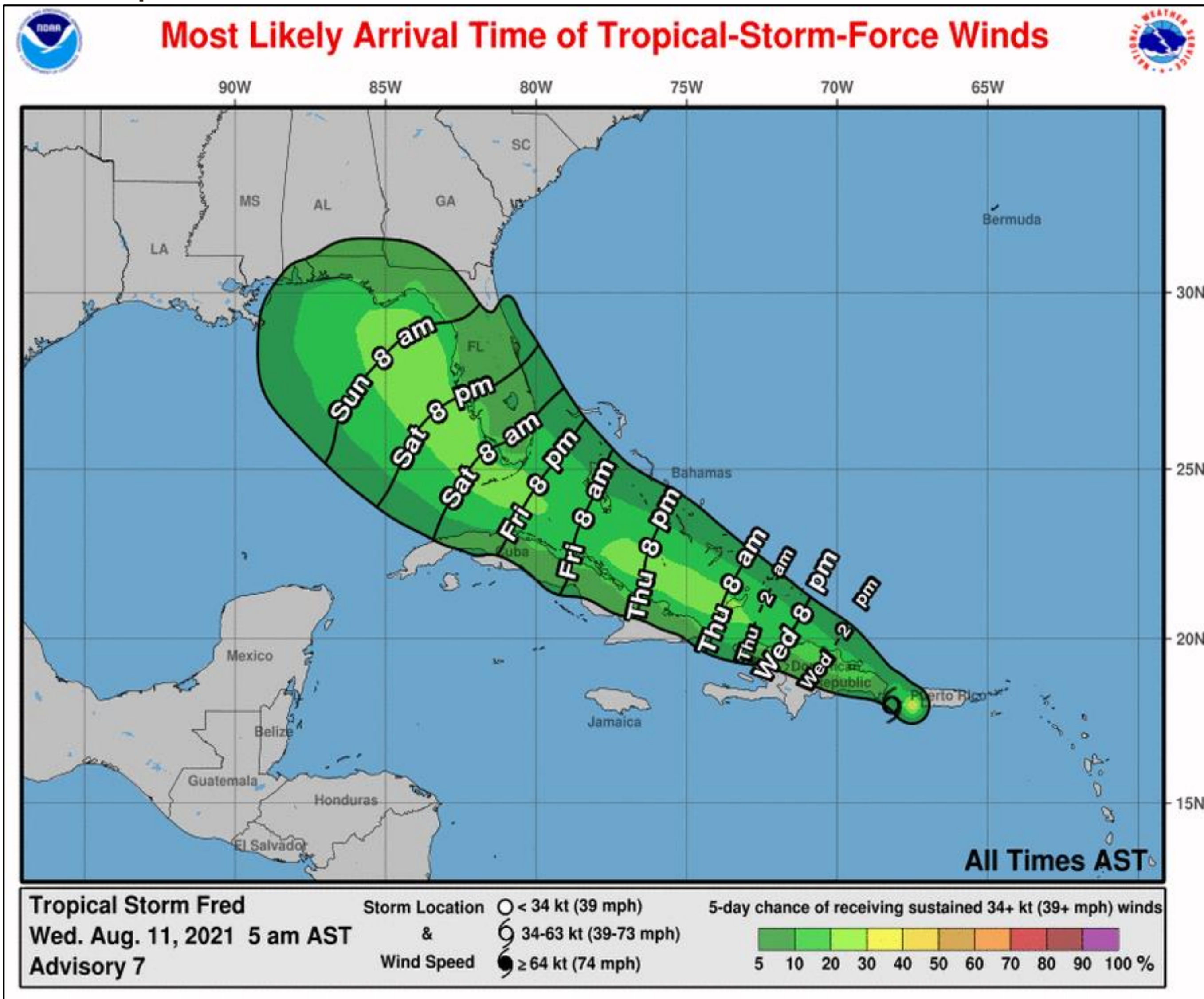
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- **Puerto Plata, DR – 15%**
 - **Andros Island, Bahamas – 15%**
 - **Marathon, FL – 20%**
 - **Key West, FL – 20%**
 - **Naples, FL – 20%**
 - **Venice, FL – 20%**
 - **Tampa, FL – 20%**
 - **Cedar Key, FL – 15%**
 - **Apalachicola, FL – 20 %**
 - **Panama City, FL – 15 %**
- 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.



Tropical Storm Fred



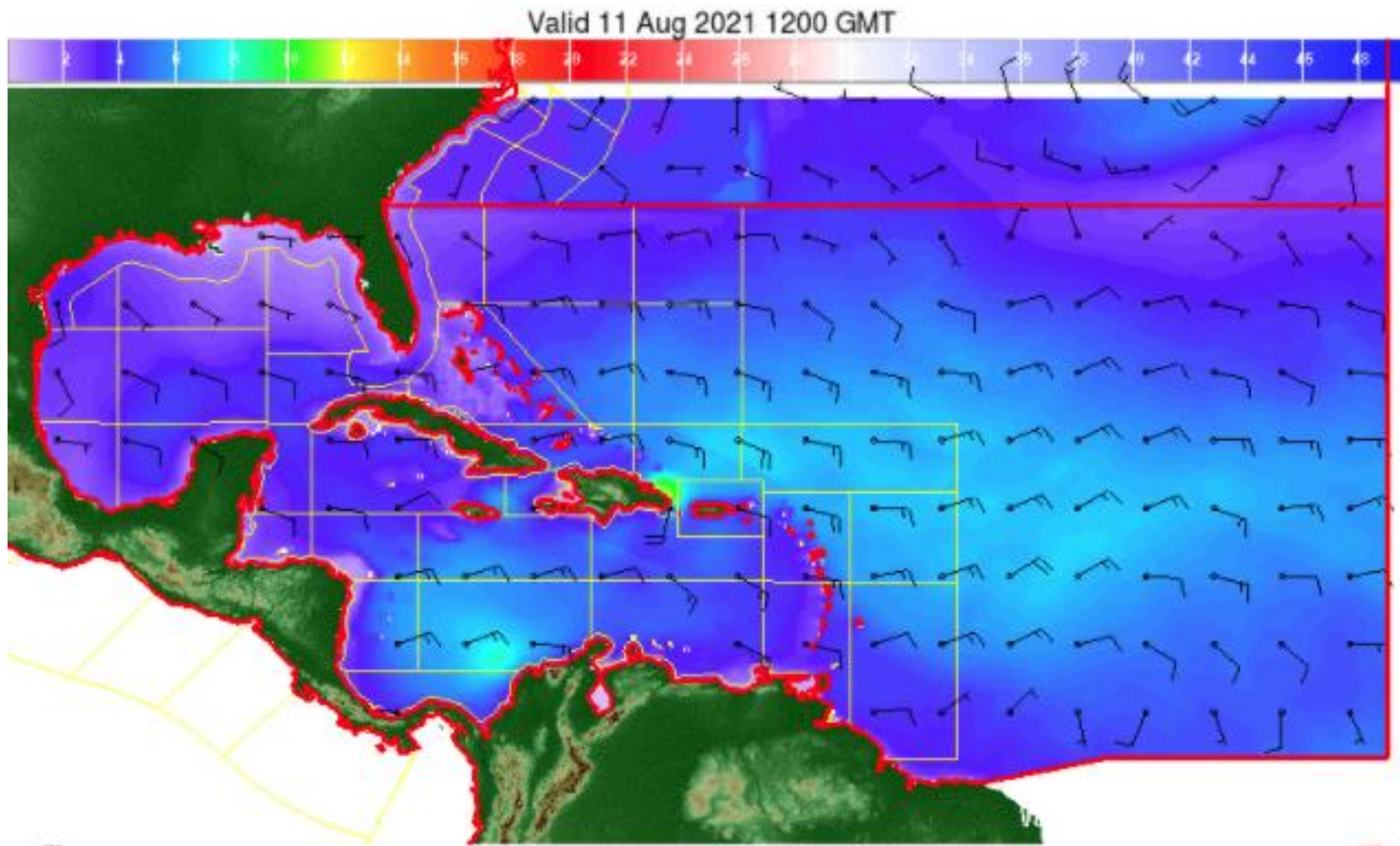
- **Dominican Republic – Today**
 - **Southern Bahamas – Tonight**
 - **Central Bahamas – Thu/Fri**
 - **Florida Keys – Fri night/early Sat**
 - **West Coast of Florida – Sat/Sun**
 - **Florida Panhandle – Late Sun**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for 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

Tropical Storm Fred



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NHC/TAFB Gridded Marine Forecasts (N of 31N provided by OPC)

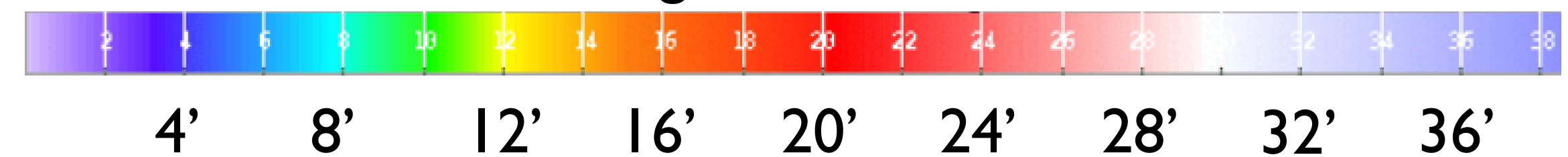
Current Conditions

9 am EDT, Wednesday, August 11th

Peak Winds: 35 kt

Peak Seas: 9 ft

■ Wave heights are in feet

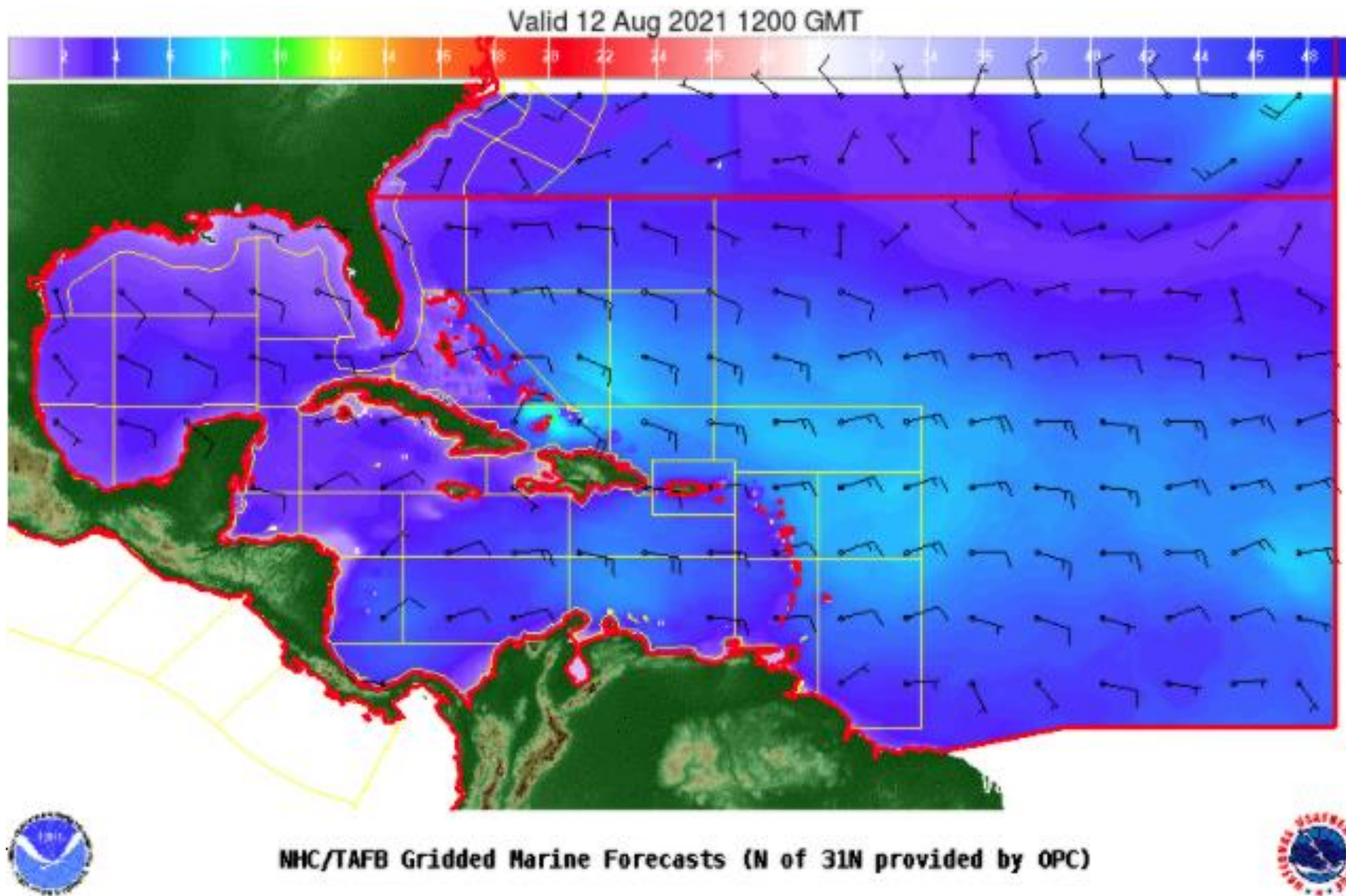


Wind And Waves

Tropical Storm Fred



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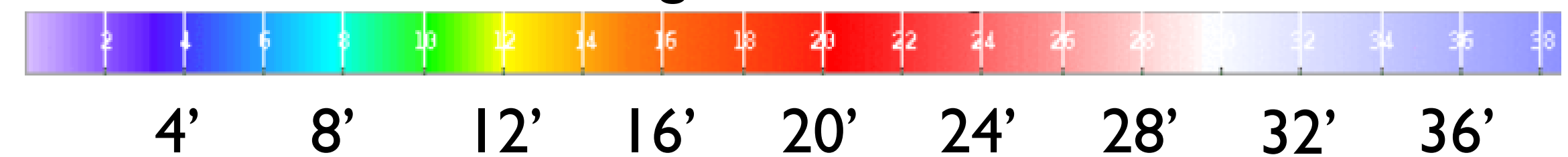
24 Hour Forecast

8 am EDT, Thursday, August 12th

Peak Winds: 30 kt

Peak Seas: 10 ft

■ Wave heights are in feet

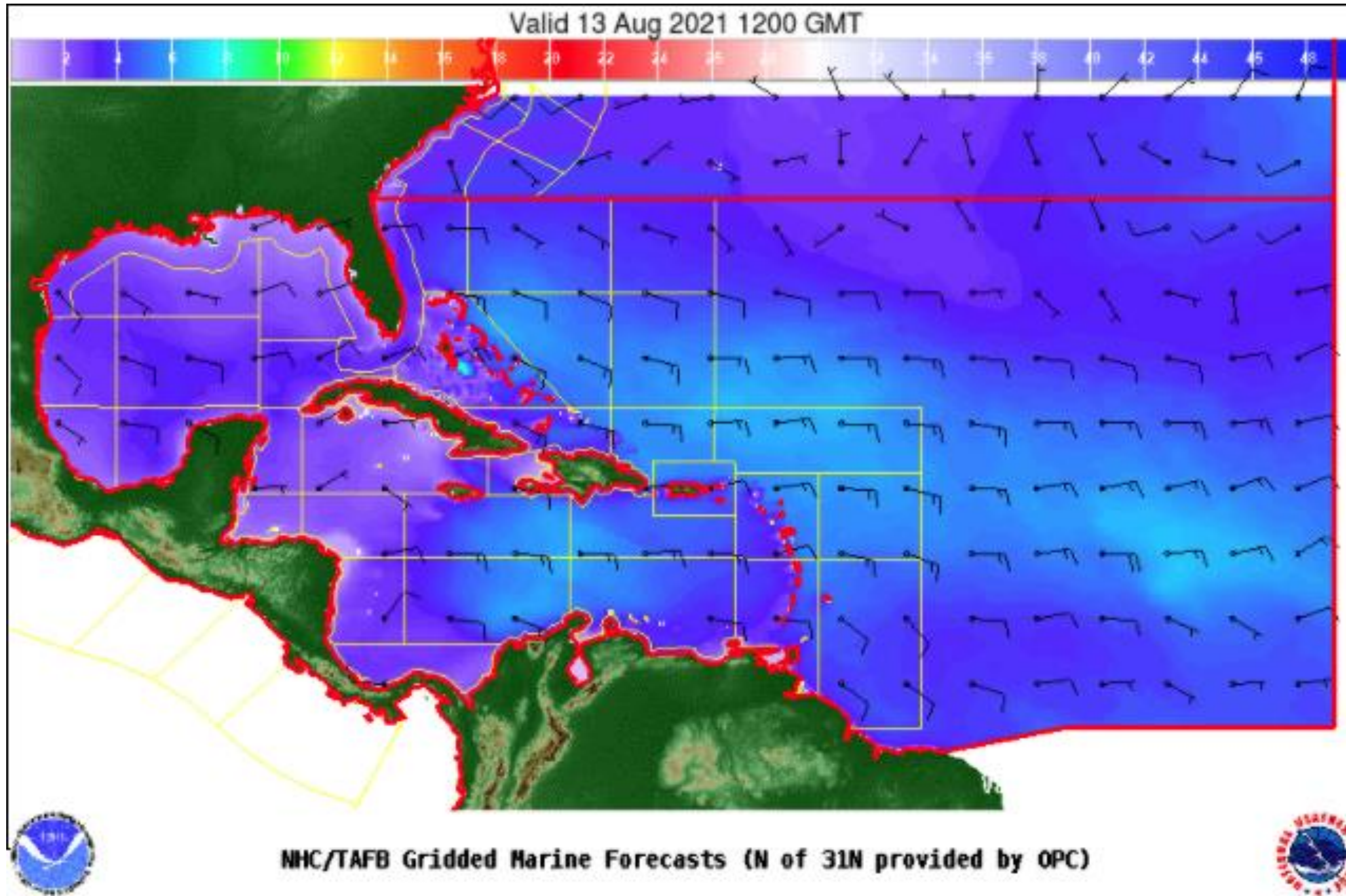


Wind And Waves

Tropical Storm Fred



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48 Hour Forecast

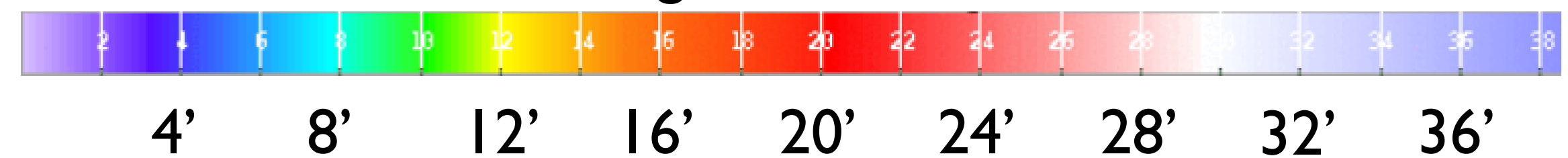
8 am EDT, Friday, August 13th

Peak Winds: 35 kt

Peak Seas: 9 ft

NHC/TAFB Gridded Marine Forecasts (N of 31N provided by OPC)

■ Wave heights are in feet

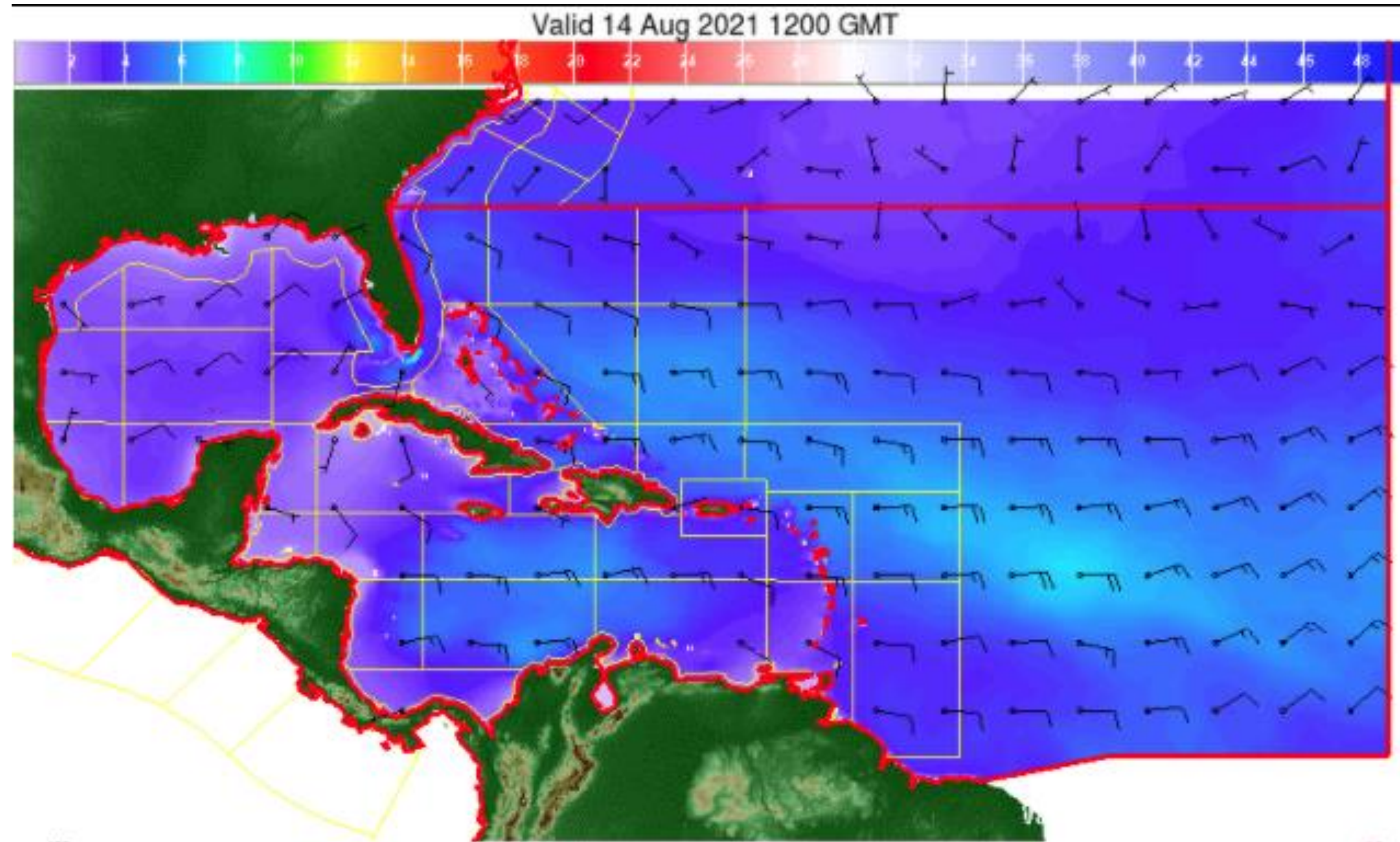


Wind And Waves

Tropical Storm Fred



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NHC/TAFB Gridded Marine Forecasts (N of 31N provided by OPC)

72 Hour Forecast

8 am EDT, Saturday, August 14th

Peak Winds: 40 kt

Peak Seas: 10 ft

■ Wave heights are in feet



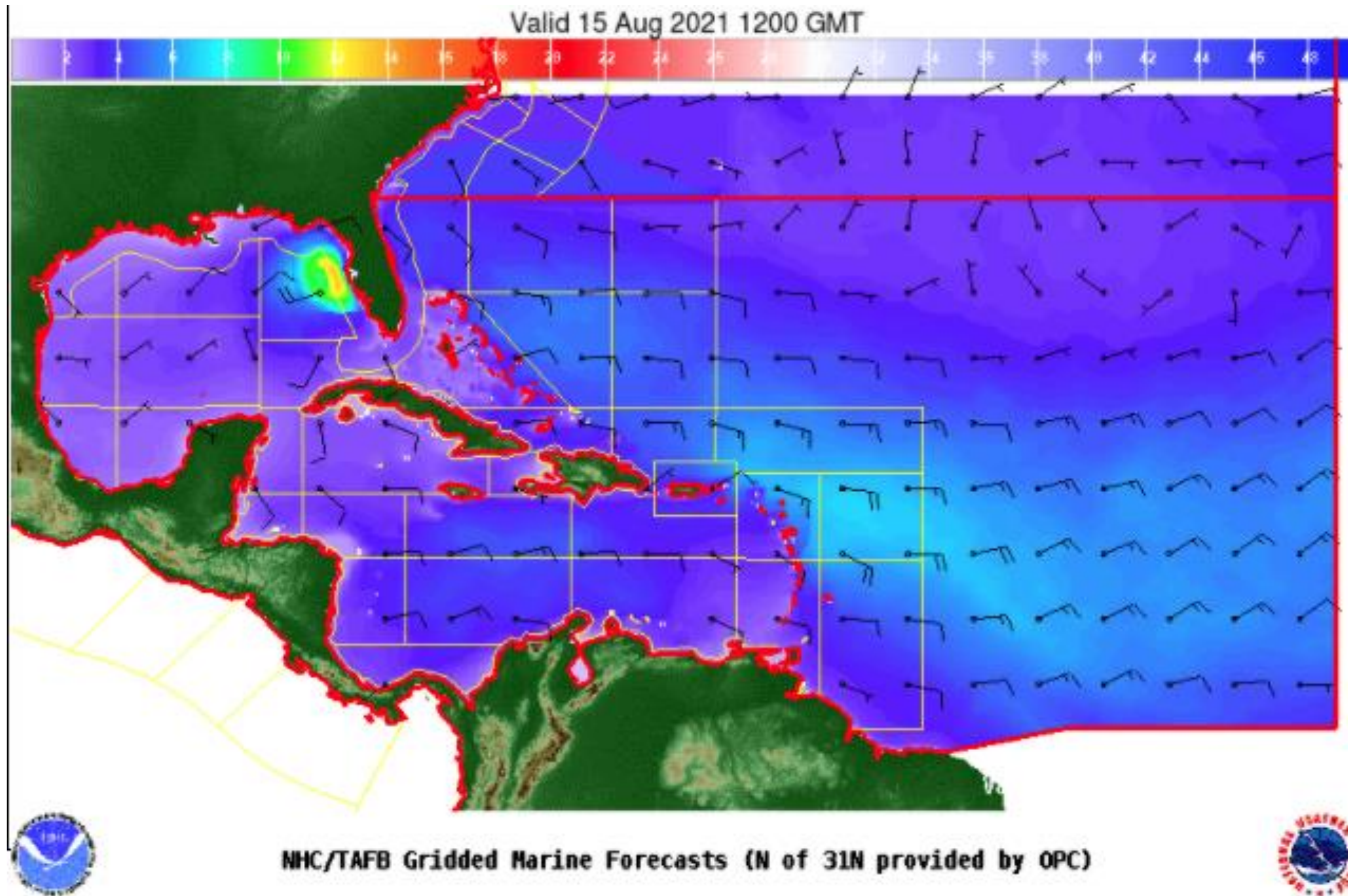
4' 8' 12' 16' 20' 24' 28' 32' 36'

Wind And Waves

Tropical Storm Fred



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NHC/TAFB Gridded Marine Forecasts (N of 31N provided by OPC)

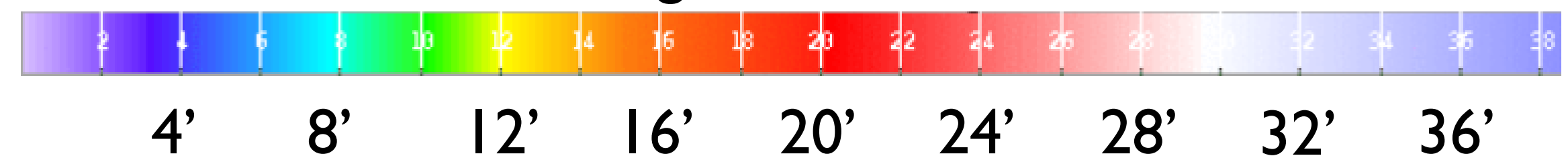
96 Hour Forecast

8 am EDT, Sunday, August 15th

Peak Winds: 45 kt

Peak Seas: 15 ft

■ Wave heights are in feet

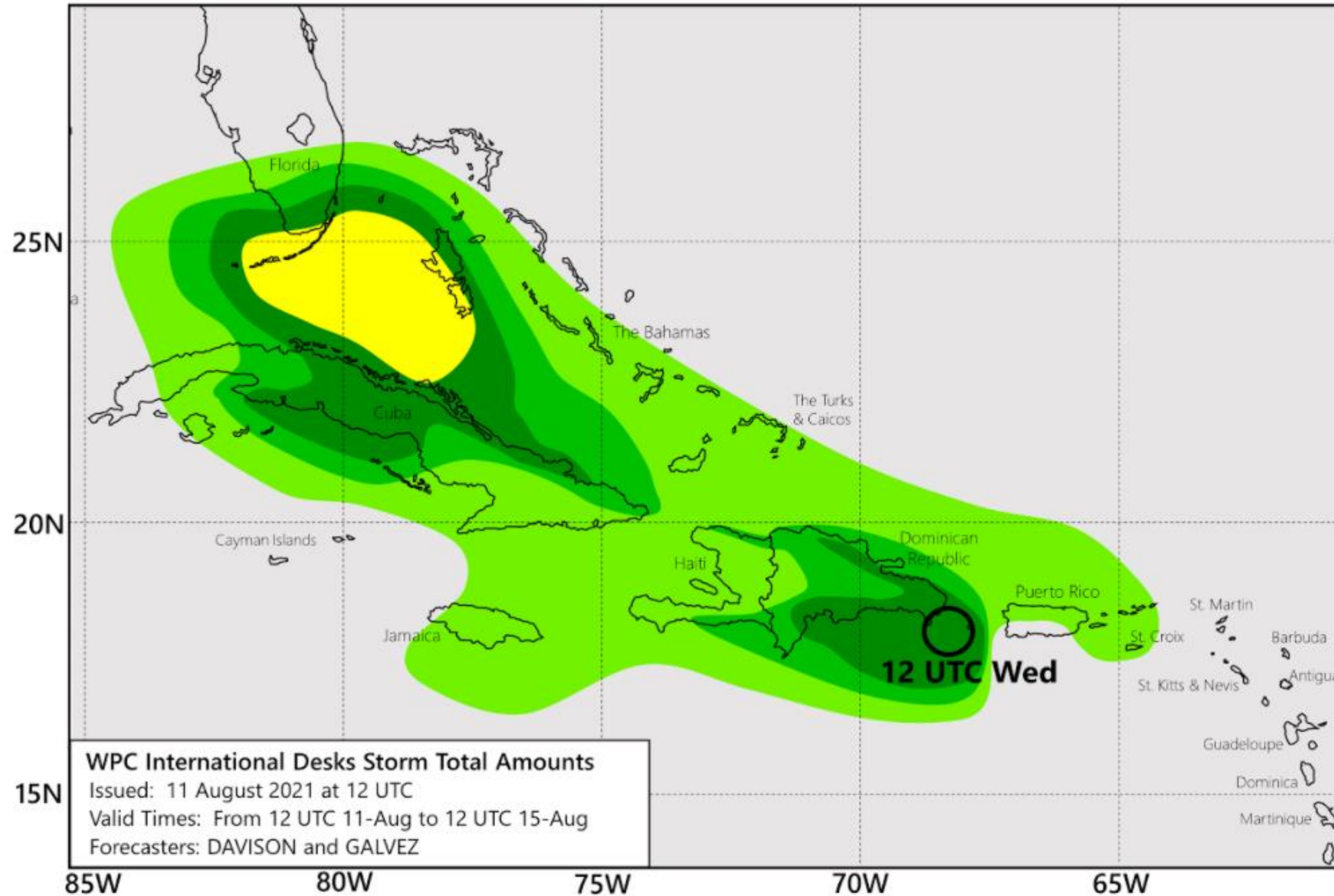




Tropical Storm Fred

Images from NWS Weather Prediction Center

Tropical Storm Fred Rainfall Outlook



Rainfall (in)	Rainfall (mm)
30+	750+
25-30	625-750
20-25	500-625
15-20	375-500
10-15	250-375
8-12	200-300
6-10	150-250
3-6	75-150
2-3	50-75
1-2	25-50

NOTE
 This forecast is for planning purposes. A detailed official forecast will be issued by the respective National Hydro Meteorological Service.

- Total rainfall in inches through early Sun.

Key Messages

Tropical Storm Fred



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Storm Fred

Advisory 7: 5:00 AM AST Wed Aug 11, 2021

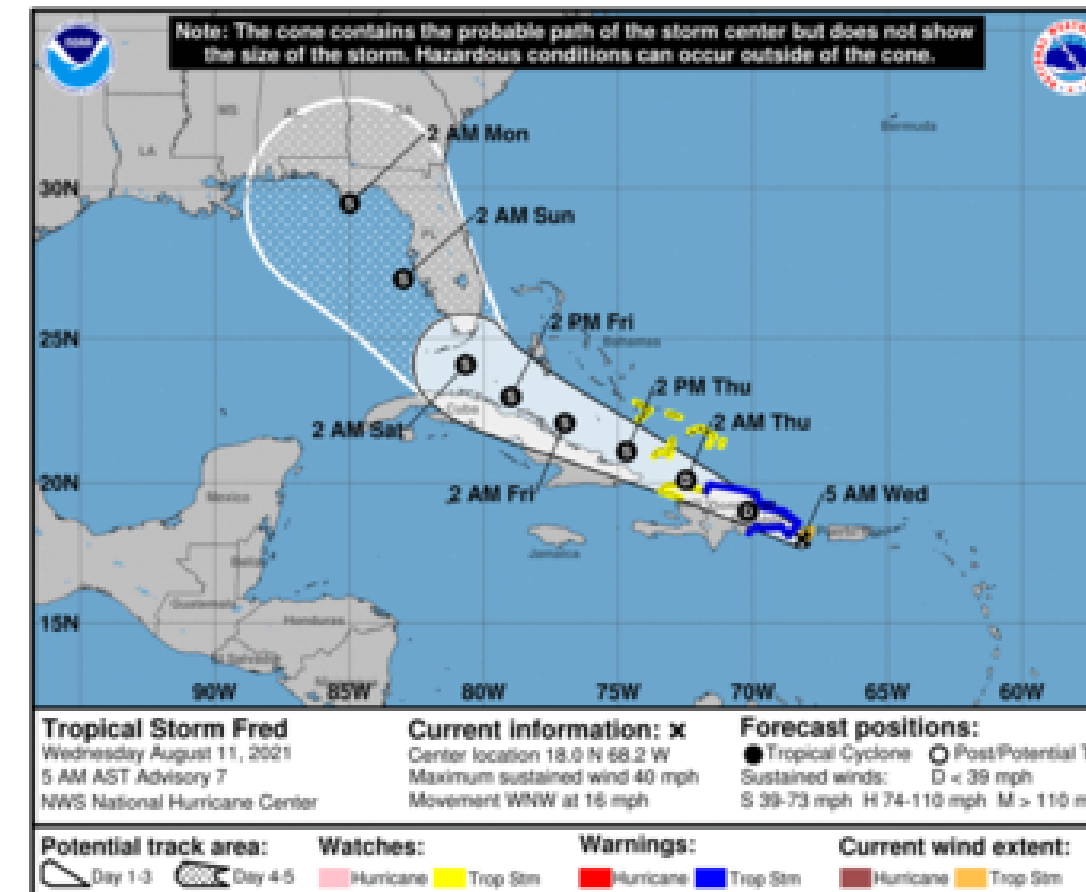


1. Tropical storm conditions are expected to begin in portions of the Dominican Republic this morning. Tropical storm conditions are possible in northern Haiti and the southeastern Bahamas by late today.

2. Heavy rainfall could lead to flash, urban, and small stream flooding, along with possible rapid river rises and the potential for mudslides across the U.S. Virgin Islands, Puerto Rico, and the Dominican Republic. The greatest threat for flooding impacts will be across eastern and southern Puerto Rico.

3. There is a risk of wind and rainfall impacts elsewhere in portions of Hispaniola, the Bahamas, and Cuba during the next few days, although the forecast is more uncertain than usual since Fred is forecast to interact with Hispaniola today. Interests in these areas should monitor Fred's progress and updates to the forecast.

4. There is a risk of wind and rainfall impacts in Florida beginning Friday in the Keys and spreading northward through portions of the Peninsula and the Panhandle this weekend. However, it is too soon to determine the exact timing, location, and magnitude of any potential impacts. Interests throughout Florida should monitor Fred's progress and check updates to the forecast.



For more information go to hurricanes.gov

IMPACTS FOR D7 (through next 5 days)

Winds – Moderate

Storm Surge – None

Rainfall/Flash Flooding – Moderate

Tornadoes – None

Waves - Low



TROPICAL STORM FRED BRIEFING

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

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



NHC_TAFB

www.nhc.noaa.gov