

IMPACTS FOR D7 (through next 5 days)

Winds – Moderate

Storm Surge – Low

Rainfall/Flash Flooding – Moderate

Tornadoes – None

Waves - Low

TROPICAL DEPRESSION FRED BRIEFING



9:00 AM EDT
Friday, August 13, 2021

Prepared by:
Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

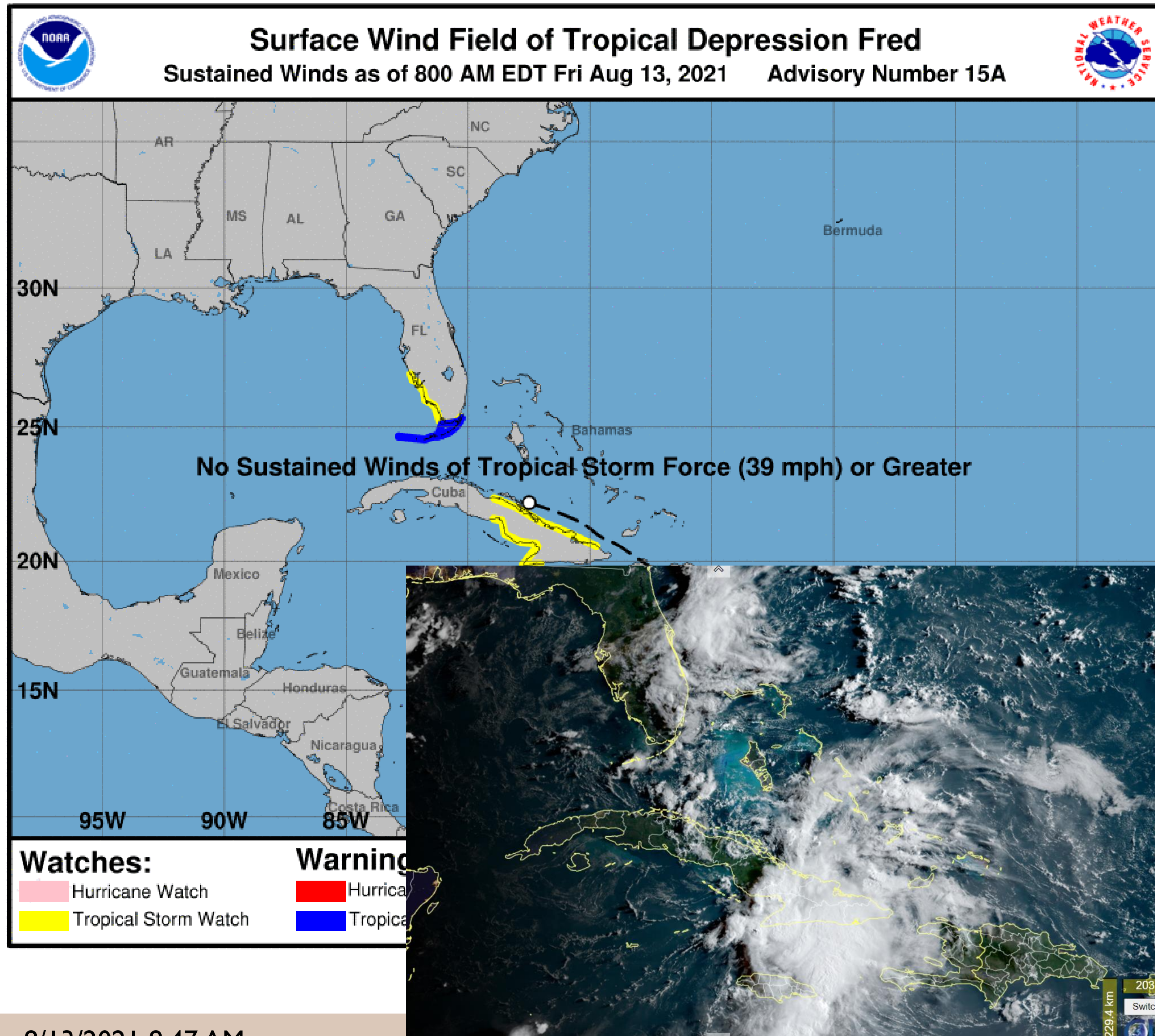
www.nhc.noaa.gov

Situation Overview

Tropical Depression Fred



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...CENTER OF FRED NEAR THE NORTH COAST OF CUBA...

SUMMARY OF 800 AM EDT INFORMATION

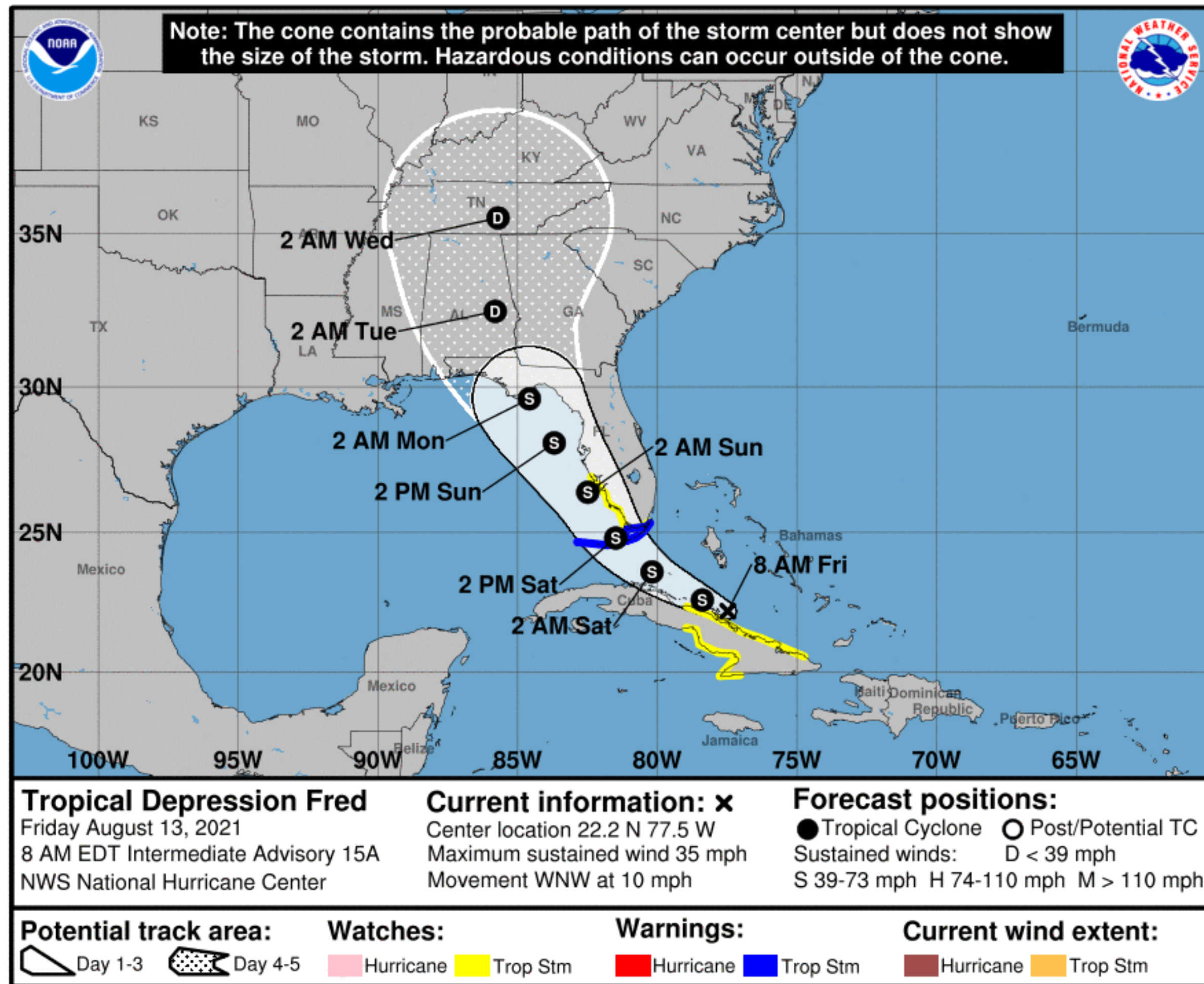
LOCATION...22.2N 77.5W
ABOUT 50 NM NNE OF CAMAGUEY CUBA
ABOUT 270 NM ESE OF KEY WEST FL
MAXIMUM SUSTAINED WINDS...30 KT
PRESENT MOVEMENT...WNW AT 15 KT
PEAK SEAS 10 FT

Forecast Information

Tropical Depression 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 is forecast to move **WNW** then turn towards the **NW** on Saturday
- Fred is expected to be a low end tropical storm for South Florida on Saturday
- Tropical Storm force winds are also expected for the **NE Gulf and Florida Panhandle** on Sunday night or Monday morning (hurricane can be ruled out at this point)
- Current center forecast positions through the next 5 days 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

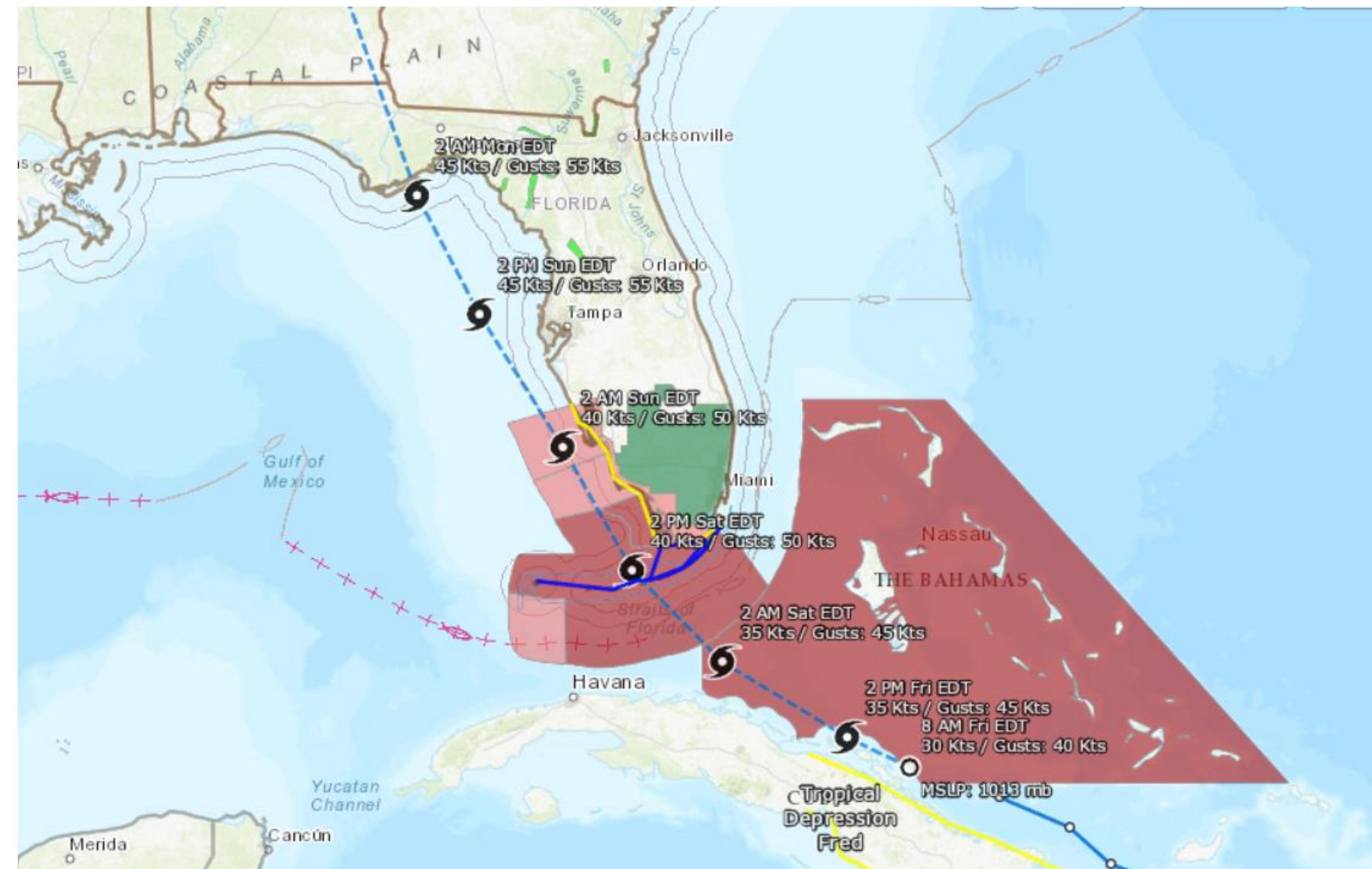
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Depression Fred



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NWS National Hurricane Center



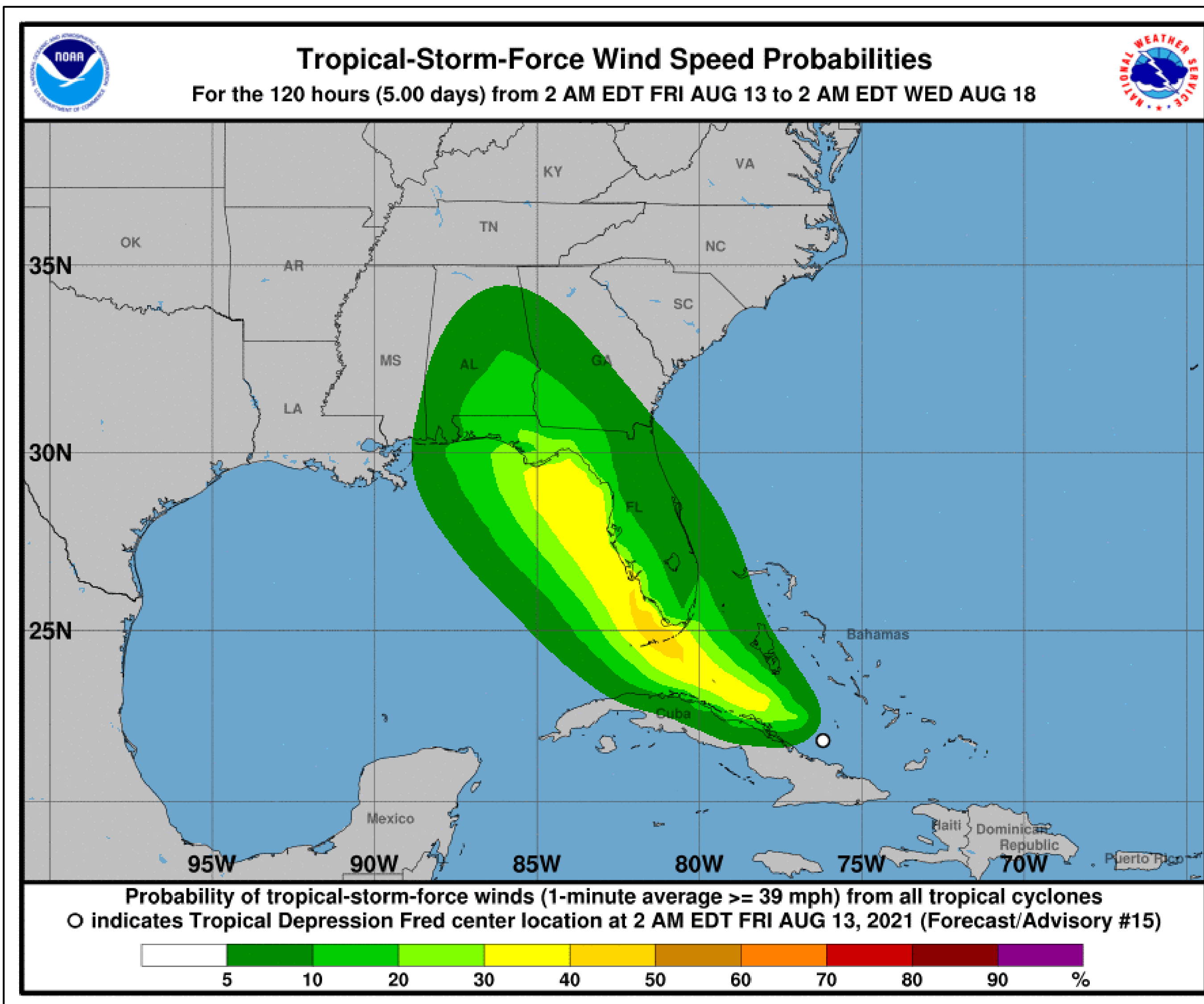
■ <https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Depression Fred



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



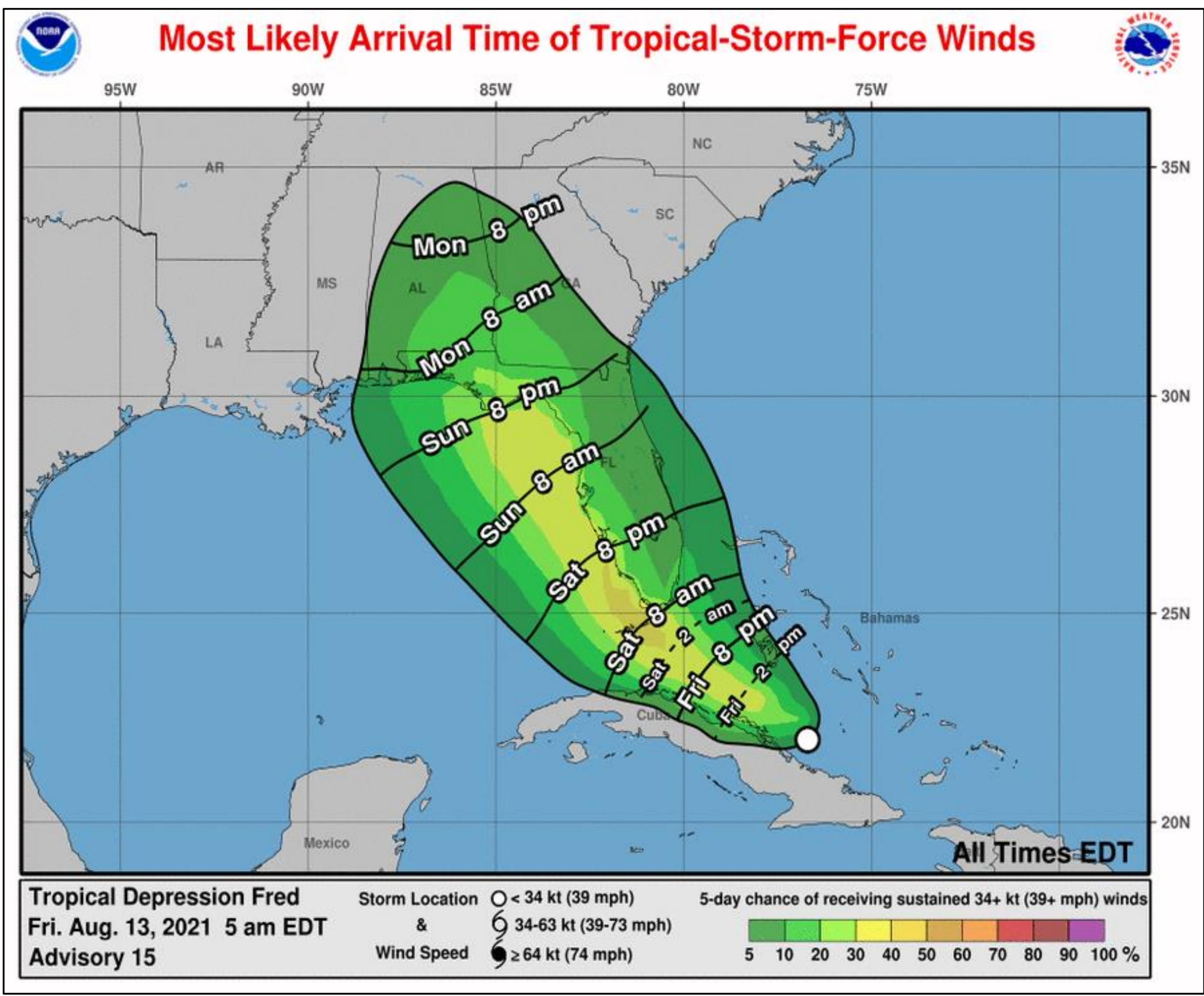
- **Palm Beach, FL – 10%**
- **Fort Lauderdale, FL – 15%**
- **Miami, FL – 10%**
- **Marathon, FL – 45%**
- **Key West, FL – 35%**
- **Naples, FL – 40%**
- **Fort Myers, FL – 20%**
- **Venice, FL – 35%**
- **Tampa, FL – 30%**
- **Cedar Key, FL – 25%**
- **Apalachicola, FL – 25%**
- **Panama City, FL – 20%**
- 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%
- See the color bar below the image for more details.

Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities

Tropical Depression Fred



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



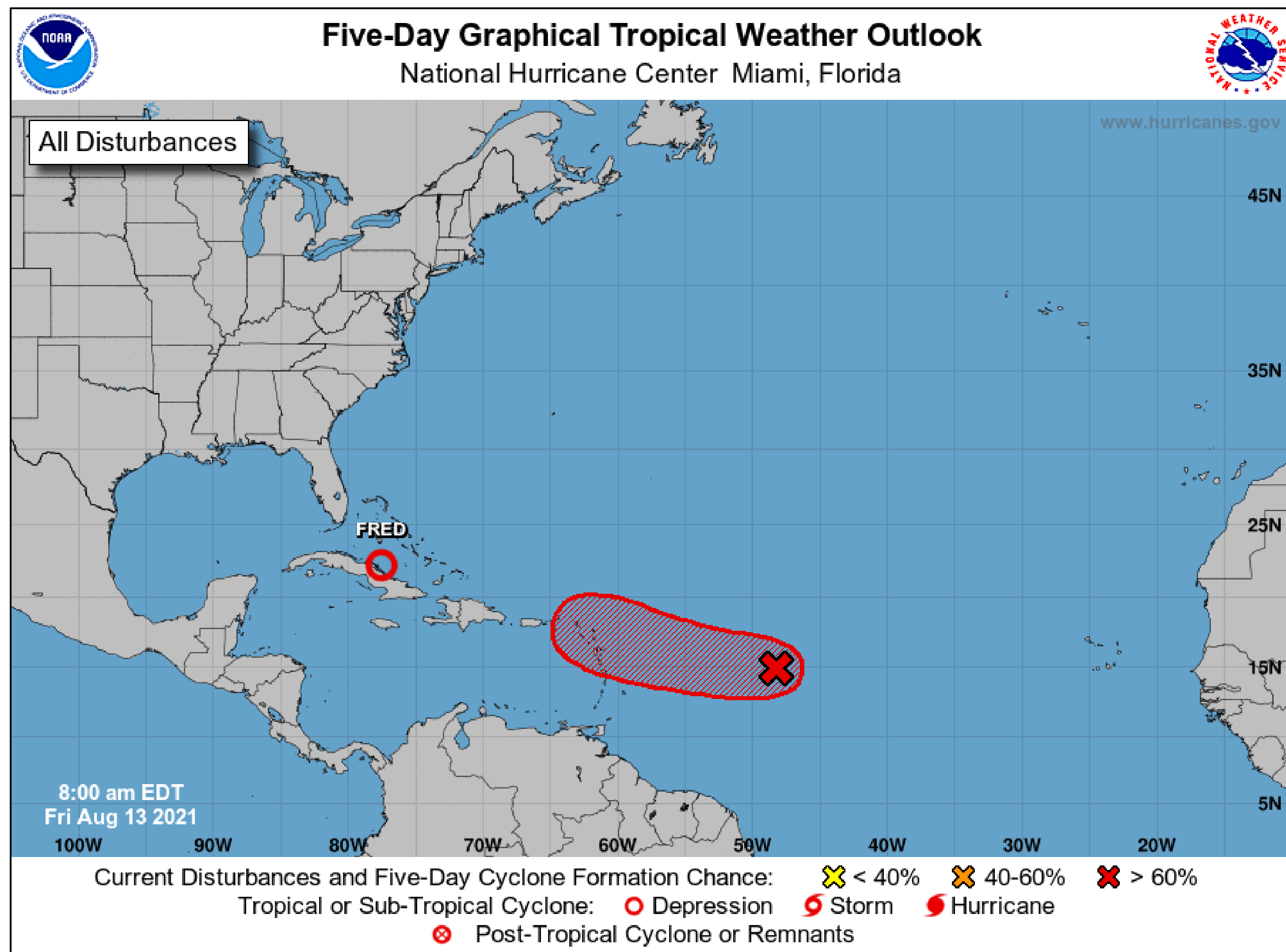
- **SE Florida and Keys – Sat morning**
- **SW Florida – Sat night**
- **Florida Panhandle – Sun night**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- 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.

Tropical Weather Outlook

Tropical Depression Fred



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NWS National Hurricane Center



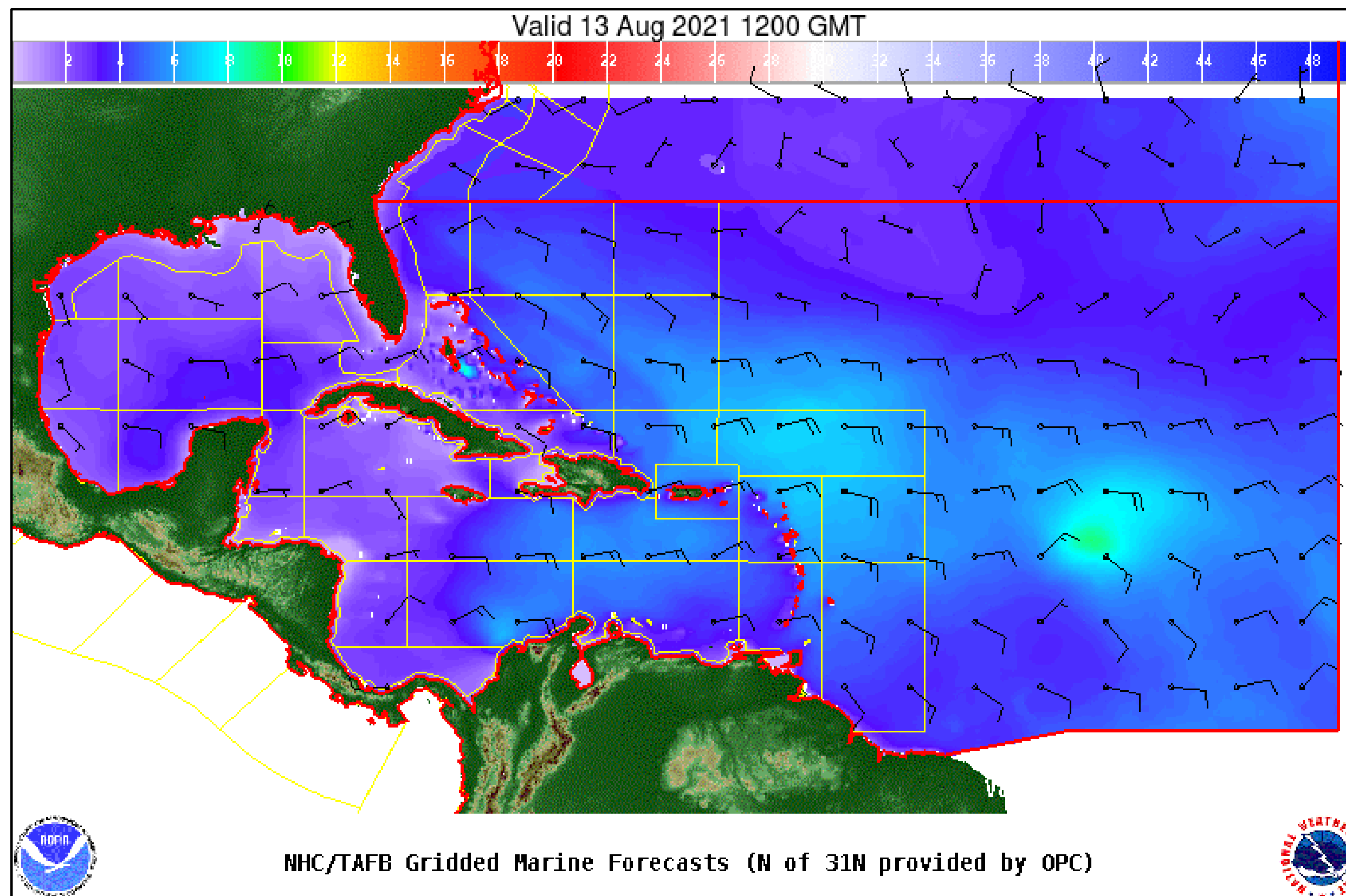
- Showers and thunderstorms have become a little better organized since yesterday near an area of low pressure located about 725 NM east of the Lesser Antilles.
- Environmental conditions are becoming more conducive for additional development, and a tropical depression is likely to form over the next day or two while moving toward the west or west-northwest at 15-20 kt.
- This system is expected to reach portions of the Leeward Islands Saturday night and then the Virgin Islands and Puerto Rico Sunday and Sunday night.
- Tropical storm watches or warnings could be required later today or tonight for portions of the Leeward Islands, the Virgin Islands, and Puerto Rico, since strong winds and heavy rainfall are likely to spread across those areas over the weekend, regardless of the system's development.
- Interests in these areas should continue to monitor the progress of this disturbance.
- * Formation chance through 48 hours and 5 days...high...80 percent.
- **Reminder:** The hatched area represents a possible development area, not the system's path after development occurs.

Wind And Waves

Tropical Depression Fred



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NWS National Hurricane Center



Current Conditions

8am EDT, Friday, August 13th

Peak Winds: 30 kt

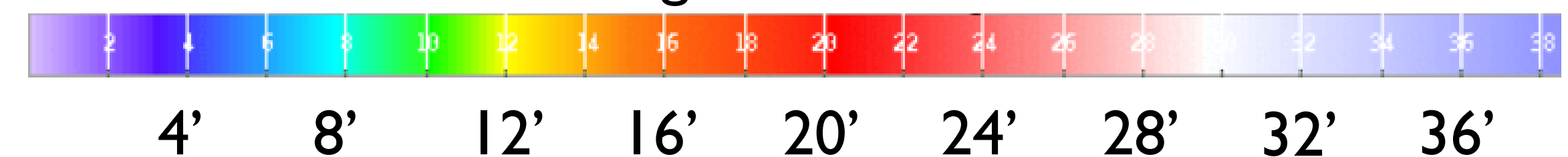
Peak Seas: 10 ft

Invest 95L

Peak Winds: 25 kt

Peak Seas: 10 ft

■ Wave heights are in feet

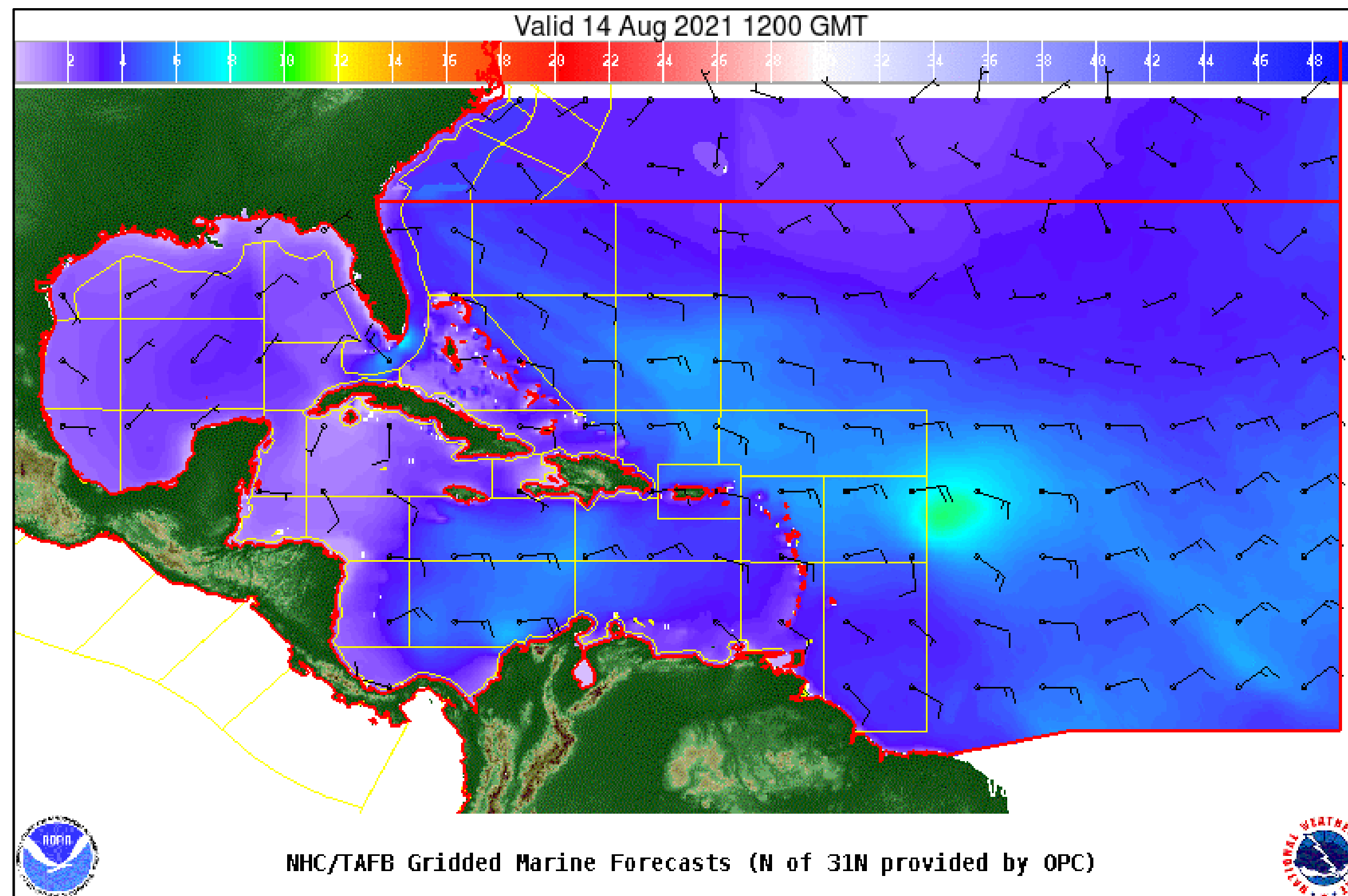


Wind And Waves

Tropical Depression Fred



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24 Hour Forecast

8am EDT, Saturday, August 14th

Peak Winds: 35 kt

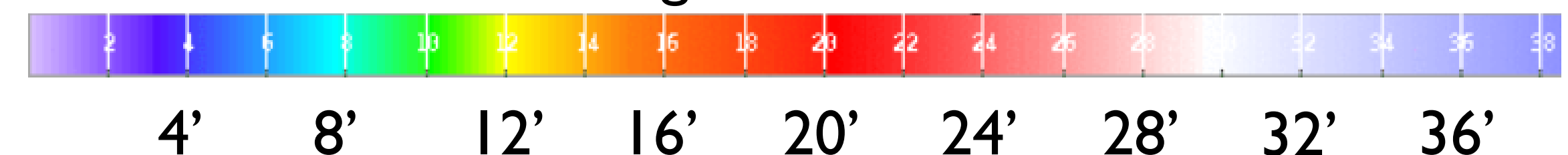
Peak Seas: 10 ft

Invest 95L:

Peak Winds 30 kt

Peak Seas: 10 ft

■ Wave heights are in feet

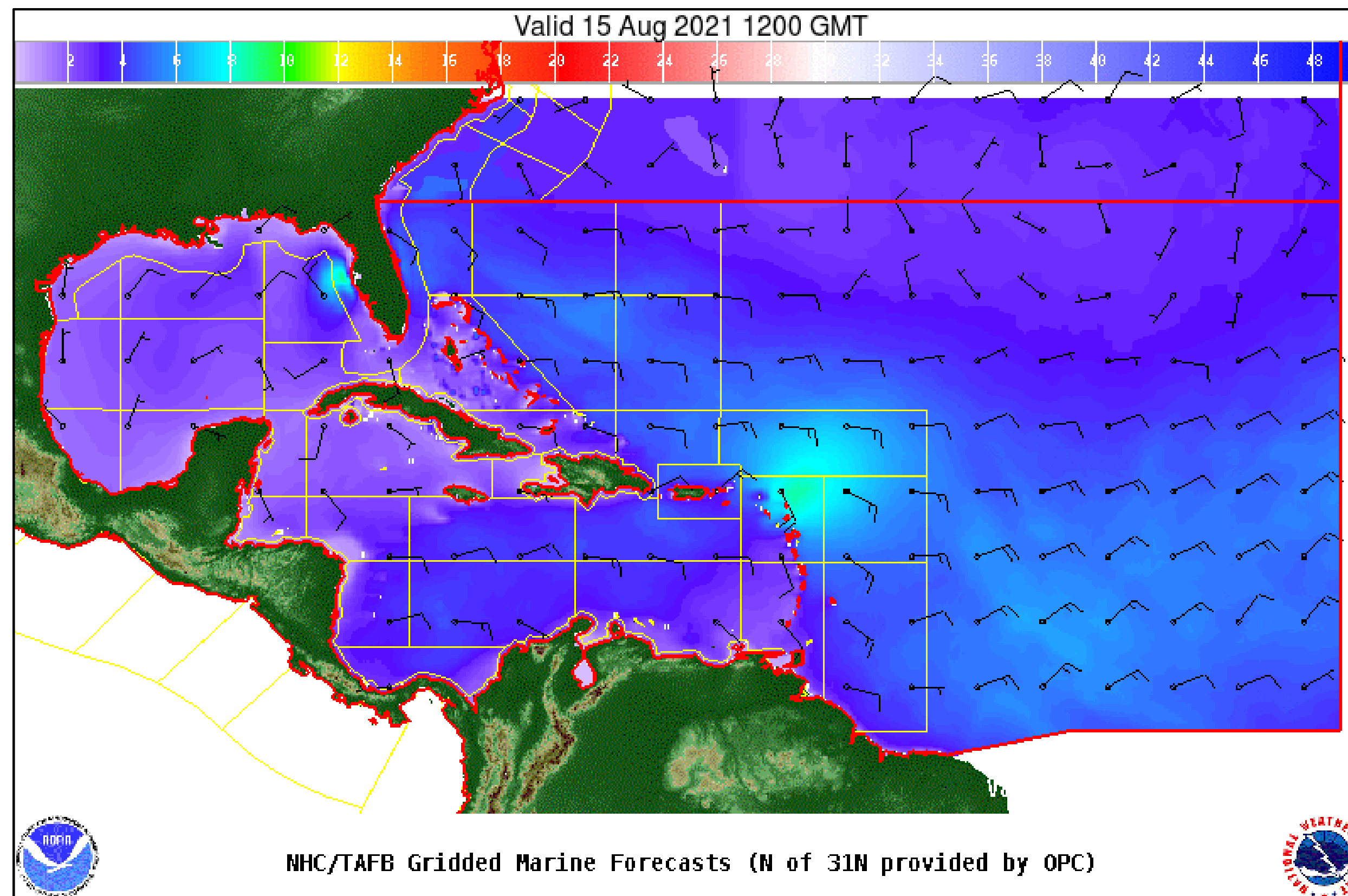


Wind And Waves

Tropical Depression Fred



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48 Hour Forecast

8am EDT, Sunday, August 15th

Peak Winds: 40 kt

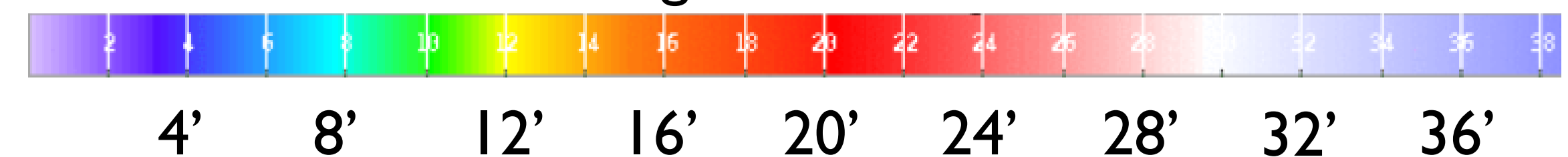
Peak Seas: 12 ft

Invest 95L:

Peak Winds 30 kt

Peak Seas: 10 ft

■ Wave heights are in feet

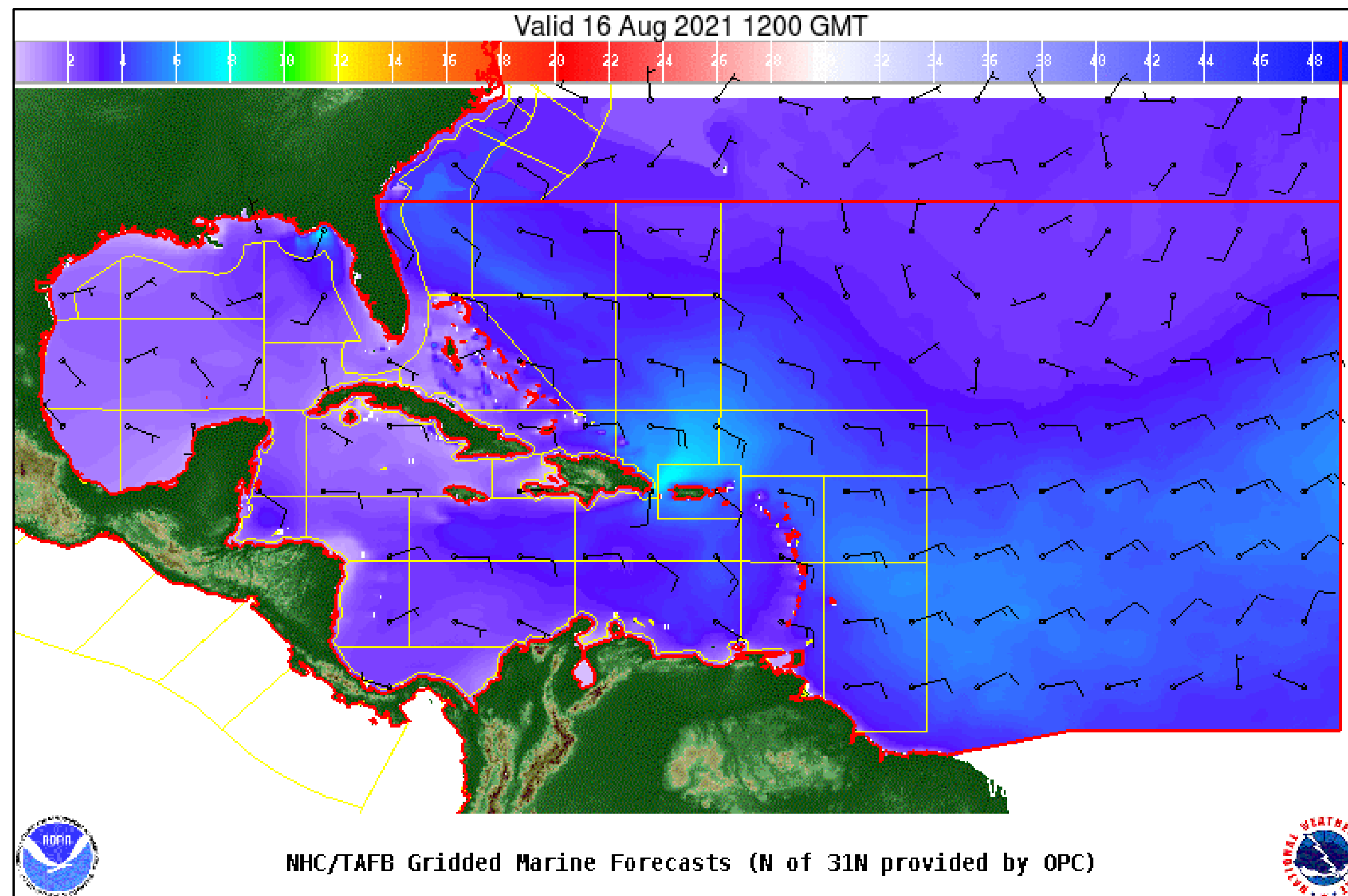


Wind And Waves

Tropical Depression Fred



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72 Hour Forecast

8am EDT, Monday, August 16th

Peak Winds: 20 kt

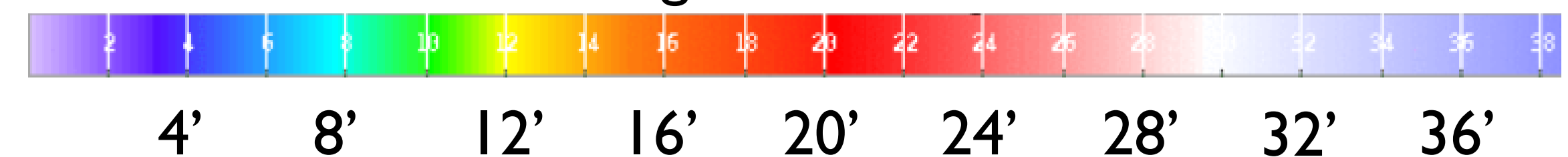
Peak Seas: 8 ft

Invest 95L:

Peak Winds 30 kt

Peak Seas: 10 ft

■ Wave heights are in feet

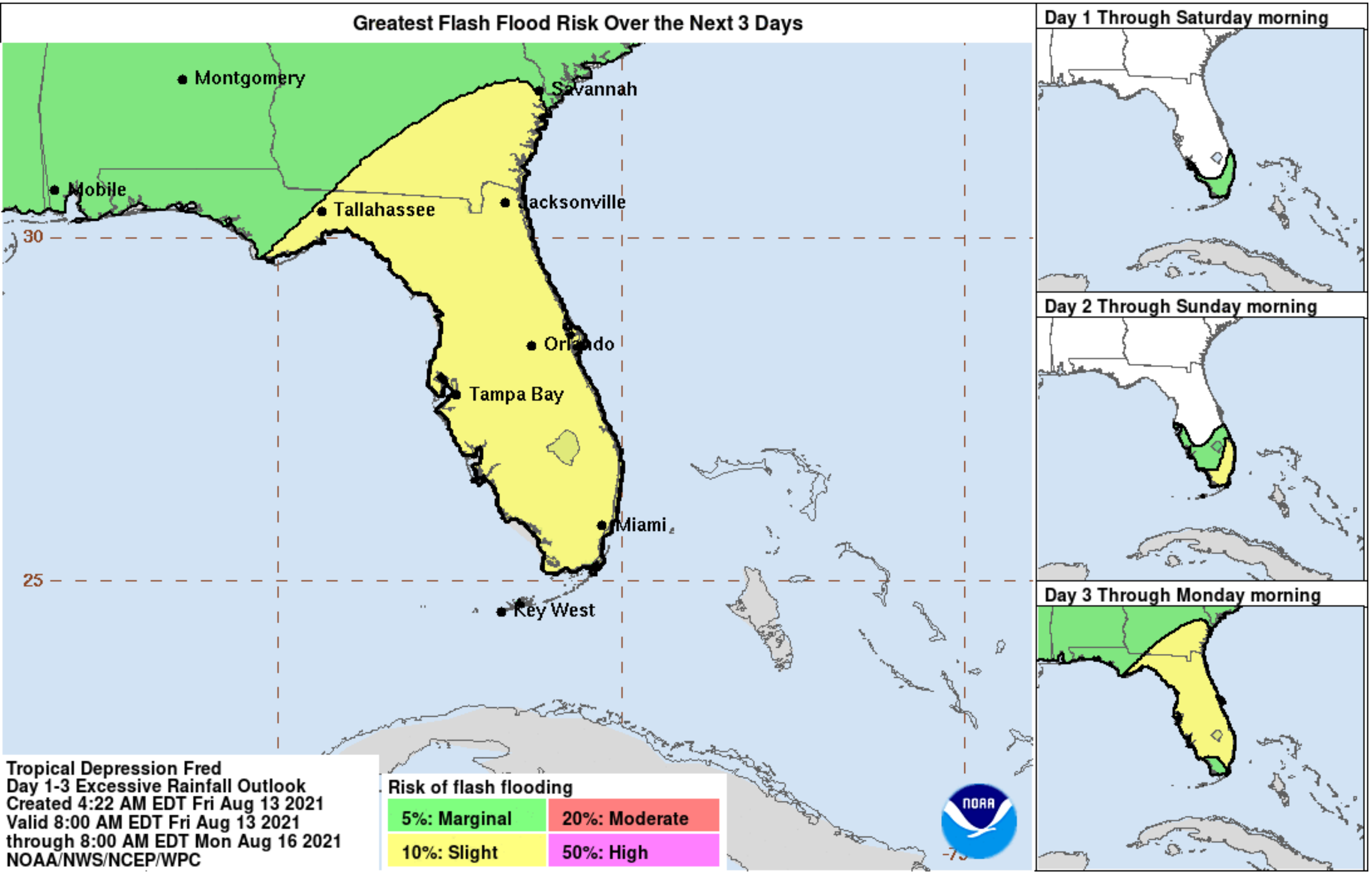
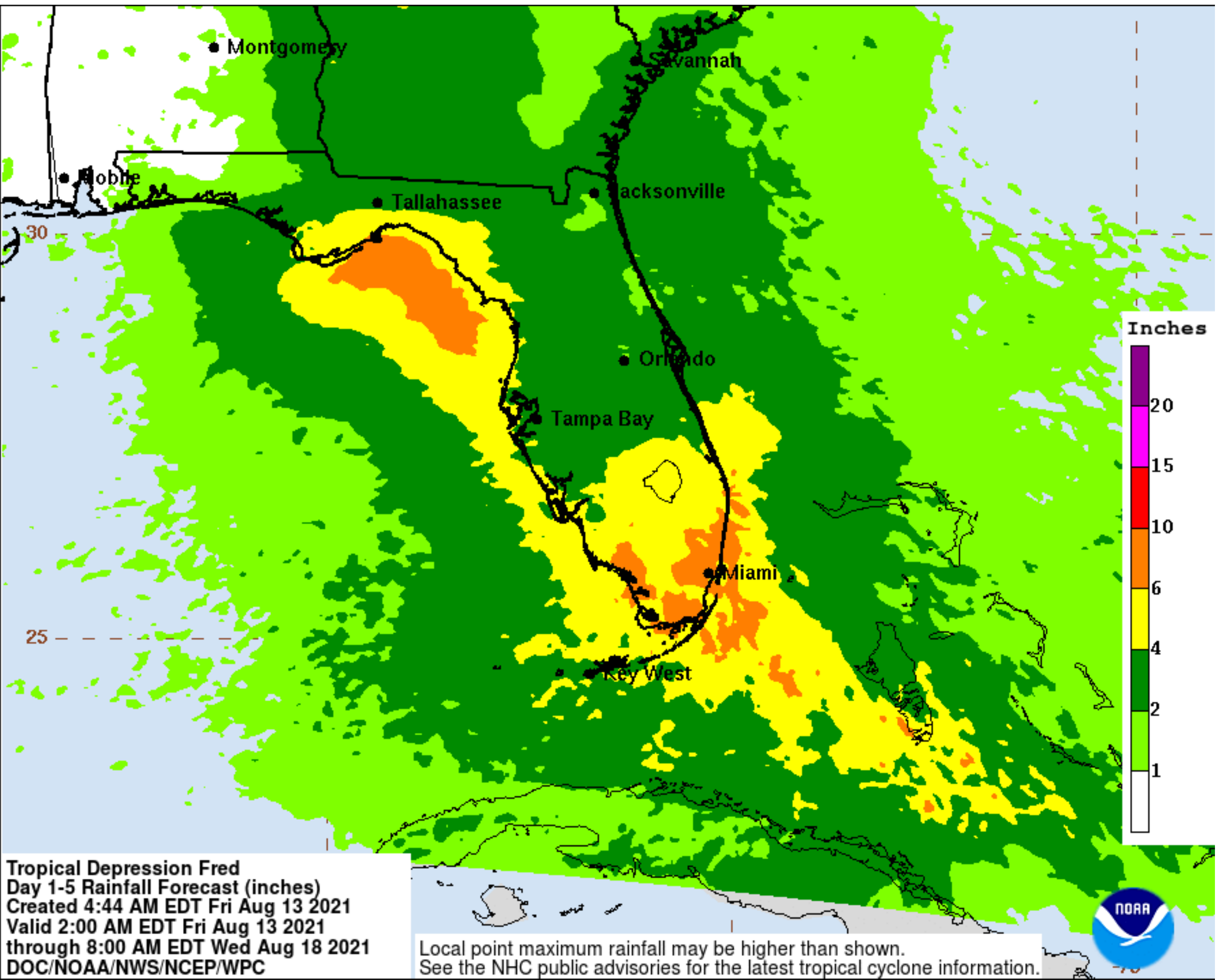


Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Depression Fred Images from NWS Weather Predication Center



- Total rainfall in inches through Wednesday morning.

Risk of rainfall exceeding flash flood guidance
within 25 miles of a point

HIGH: > 50% **SLGT: 10%-20%**
MDT: 20%-50% **MRGL: 5%-10%**



Through Monday morning

Key Messages

Tropical Depression Fred




Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Depression Fred

Advisory 15: 5:00 AM EDT Fri Aug 13, 2021

1. From today into Monday, heavy rainfall could lead to areal, urban, small stream, and exacerbated river flooding, across southern and central Florida into the Big Bend. From Sunday onward, heavy rain and flood impacts could extend into other portions of the Southeast and into the southern and central Appalachians and Piedmont.
2. Tropical storm conditions are expected in the Florida Keys on Saturday, where a Tropical Storm Warning has been issued.
3. Tropical storm conditions are possible late Saturday and early Sunday across portions of the west coast of Florida in the Tropical Storm Watch area. The risk of tropical storm conditions will spread northward along the Florida west coast and to the Florida Panhandle Sunday and Monday.



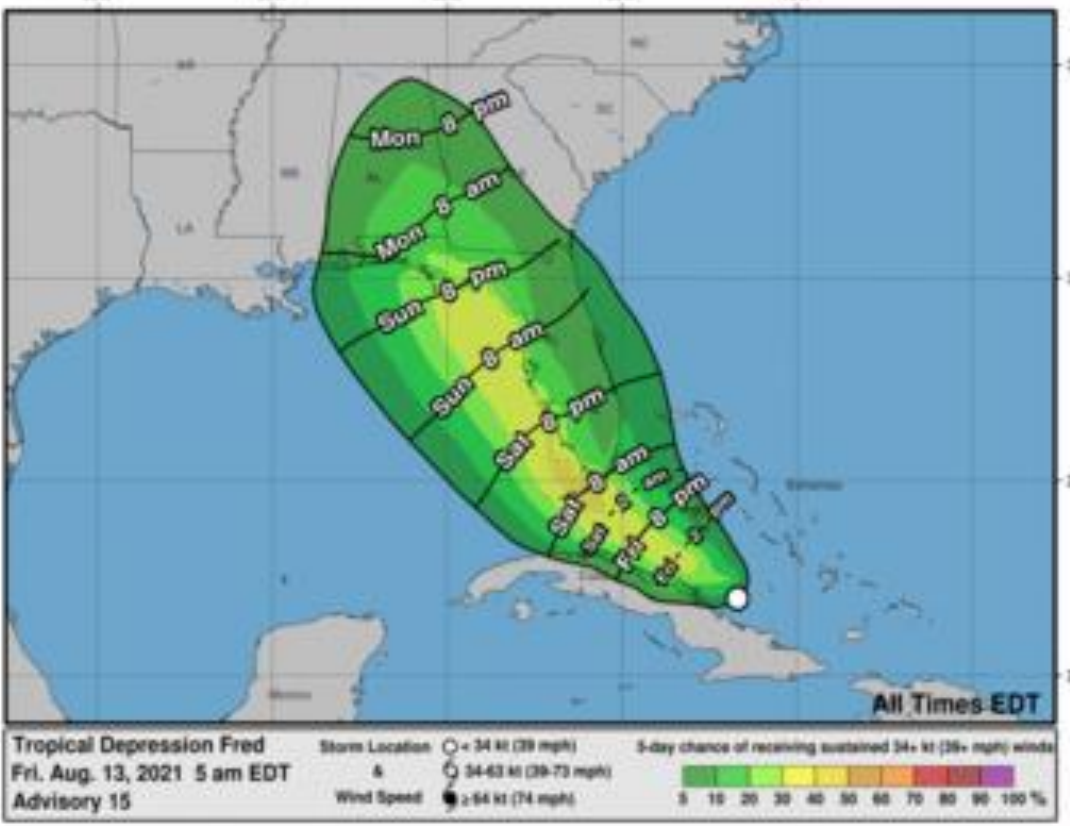
Tropical Depression Fred
Friday August 13, 2021
5 AM EDT Advisory 15
NWS National Hurricane Center

Current information: x
Center location 22.0 N 76.7 W
Maximum sustained wind 35 mph
Movement WNW at 10 mph

Forecast positions:
● Tropical Cyclone ○ Post-Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area: Day 1-3 Day 4-5
Watches: Hurricane Trop Strm
Warnings: Hurricane Trop Strm
Current wind extent: Hurricane Trop Strm

Most Likely Arrival Time of Tropical-Storm-Force Winds



Tropical Depression Fred
Fri, Aug. 13, 2021 5 am EDT
Advisory 15

Storm Location: ○ = 34 kt (39 mph) ● = 54 kt (74 mph)
Wind Speed: ○ = 34-43 kt (39-73 mph) ● = 44-53 kt (50-73 mph) ● = 54-63 kt (62-73 mph) ● = 64-73 kt (74-83 mph) ● = 74-83 kt (84-93 mph) ● = 84-93 kt (94-103 mph) ● = 94-103 kt (104-113 mph) ● = 104-113 kt (114-123 mph) ● = 114-123 kt (124-133 mph) ● = 124-133 kt (134-143 mph) ● = 134-143 kt (144-153 mph) ● = 144-153 kt (154-163 mph) ● = 154-163 kt (164-173 mph) ● = 164-173 kt (174-183 mph) ● = 174-183 kt (184-193 mph) ● = 184-193 kt (194-203 mph) ● = 194-203 kt (204-213 mph) ● = 204-213 kt (214-223 mph) ● = 214-223 kt (224-233 mph) ● = 224-233 kt (234-243 mph) ● = 234-243 kt (244-253 mph) ● = 244-253 kt (254-263 mph) ● = 254-263 kt (264-273 mph) ● = 264-273 kt (274-283 mph) ● = 274-283 kt (284-293 mph) ● = 284-293 kt (294-303 mph) ● = 294-303 kt (304-313 mph) ● = 304-313 kt (314-323 mph) ● = 314-323 kt (324-333 mph) ● = 324-333 kt (334-343 mph) ● = 334-343 kt (344-353 mph) ● = 344-353 kt (354-363 mph) ● = 354-363 kt (364-373 mph) ● = 364-373 kt (374-383 mph) ● = 374-383 kt (384-393 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kt (1974-1983 mph) ● = 1974-1983 kt (1984-1993 mph) ● = 1984-1993 kt (1994-2003 mph) ● = 1994-2003 kt (2004-2013 mph) ● = 2004-2013 kt (2014-2023 mph) ● = 2014-2023 kt (2024-2033 mph) ● = 2024-2033 kt (2034-2043 mph) ● = 2034-2043 kt (2044-2053 mph) ● = 2044-2053 kt (2054-2063 mph) ● = 2054-2063 kt (2064-2073 mph) ● = 2064-2073 kt (2074-2083 mph) ● = 2074-2083 kt (2084-2093 mph) ● = 2084-2093 kt (2094-2103 mph) ● = 2094-2103 kt (2104-2113 mph) ● = 2104-2113 kt (2114-2123 mph) ● = 2114-2123 kt (2124-2133 mph) ● = 2124-2133 kt (2134-2143 mph) ● = 2134-2143 kt (2144-2153 mph) ● = 2144-2153 kt (2154-2163 mph) ● = 2154-2163 kt (2164-2173 mph) ● = 2164-2173 kt (2174-2183 mph) ● = 2174-2183 kt (2184-2193 mph) ● = 2184-2193 kt (2194-2203 mph) ● = 2194-2203 kt (2204-2213 mph) ● = 2204-2213 kt (2214-2223 mph) ● = 2214-2223 kt (2224-2233 mph) ● = 2224-2233 kt (2234-2243 mph) ● = 2234-2243 kt (2244-2253 mph) ● = 2244-2253 kt (2254-2263 mph) ● = 2254-2263 kt (2264-2273 mph) ● = 2264-2273 kt 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