

IMPACTS FOR District 8

Winds/US Coast – Low

Winds/SRR – High

Waves/US Coastal – Low

Waves/SRR – High

through next 5 days

US Storm Surge – unknown

US Rainfall/Flash Flooding – Low

US Tornadoes – unknown

HURRICANE RAFAEL BRIEFING



11:00 AM CST
Thursday, November 7, 2024
Prepared by:

Stephen Konarik

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



Changes since yesterday

Hurricane Rafael



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NWS National Hurricane Center

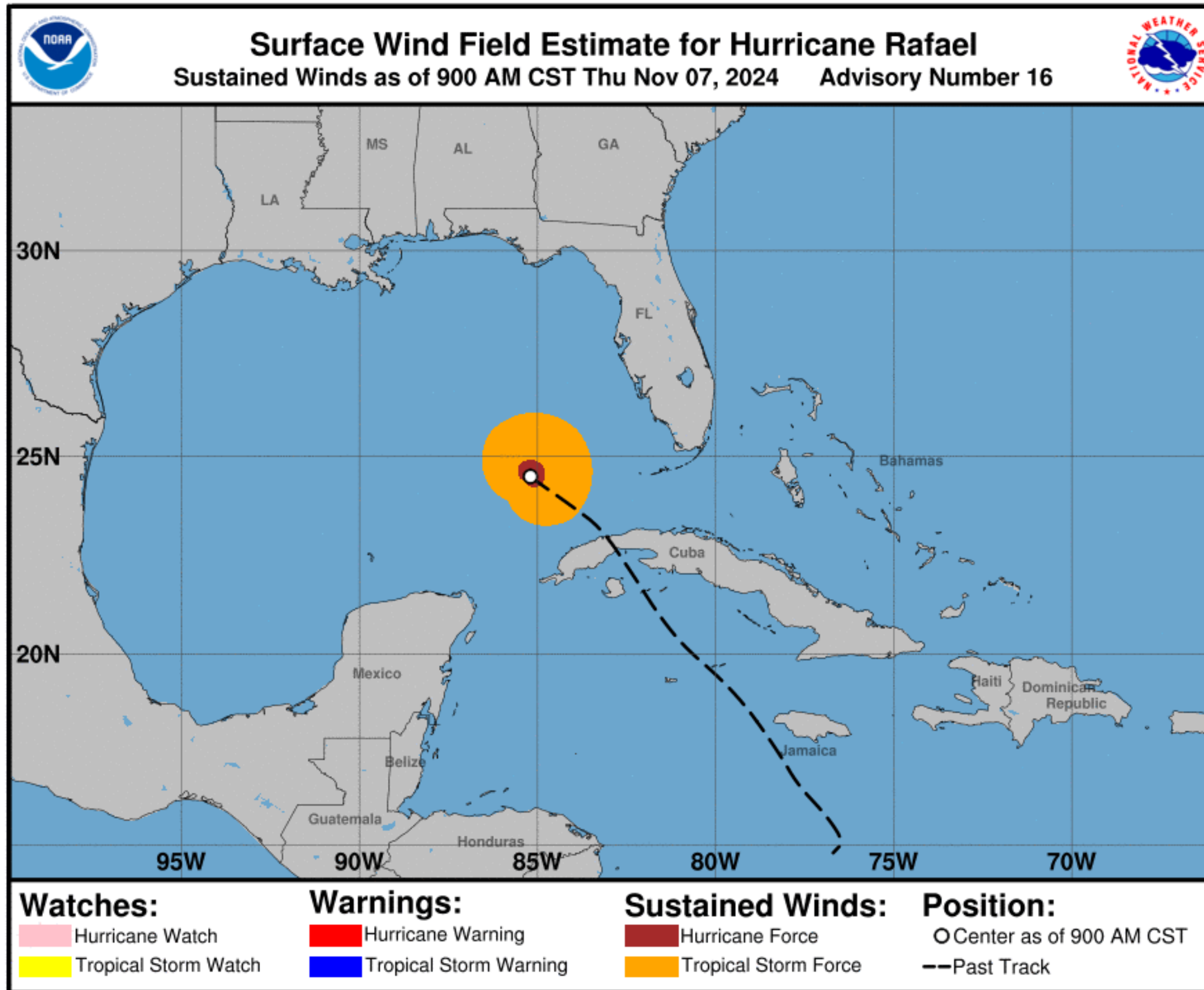
- Rafael is a Category Two Hurricane now in the SE Gulf
- A bit more likely that Rafael will maintain westerly track, without a northward curve
- However, higher than usual uncertainty in the track this weekend and beyond

Situation Overview

Hurricane Rafael



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...RAFAEL TURNING WESTWARD OVER THE SOUTHEASTERN GULF OF MEXICO...

SUMMARY OF 900 AM CST...1500 UTC...

LOCATION...24.5N 85.2W

ABOUT 190 NM W OF KEY WEST FLORIDA

MAXIMUM SUSTAINED WINDS...100 MPH...155 KM/H

PRESENT MOVEMENT...WNW at 8 KT

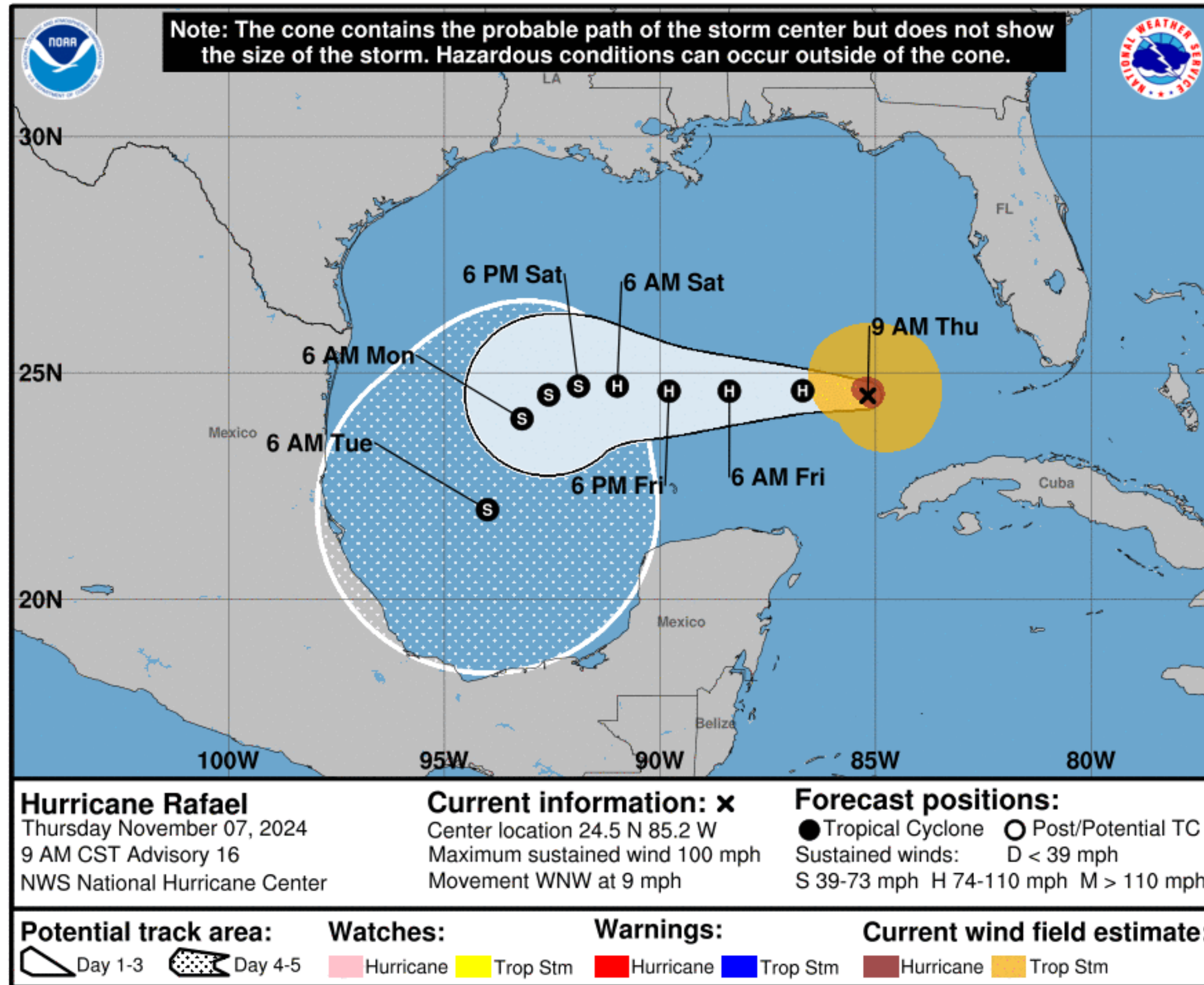
12 FT SEAS.. 90NE 75SE 90SW 90NW.

Forecast Information

Hurricane Rafael



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- General westward track expected into the weekend, slowing in forward speed
- Gradual weakening forecast
- Current forecast has Rafael curving SW starting Sunday, but there is very high uncertainty

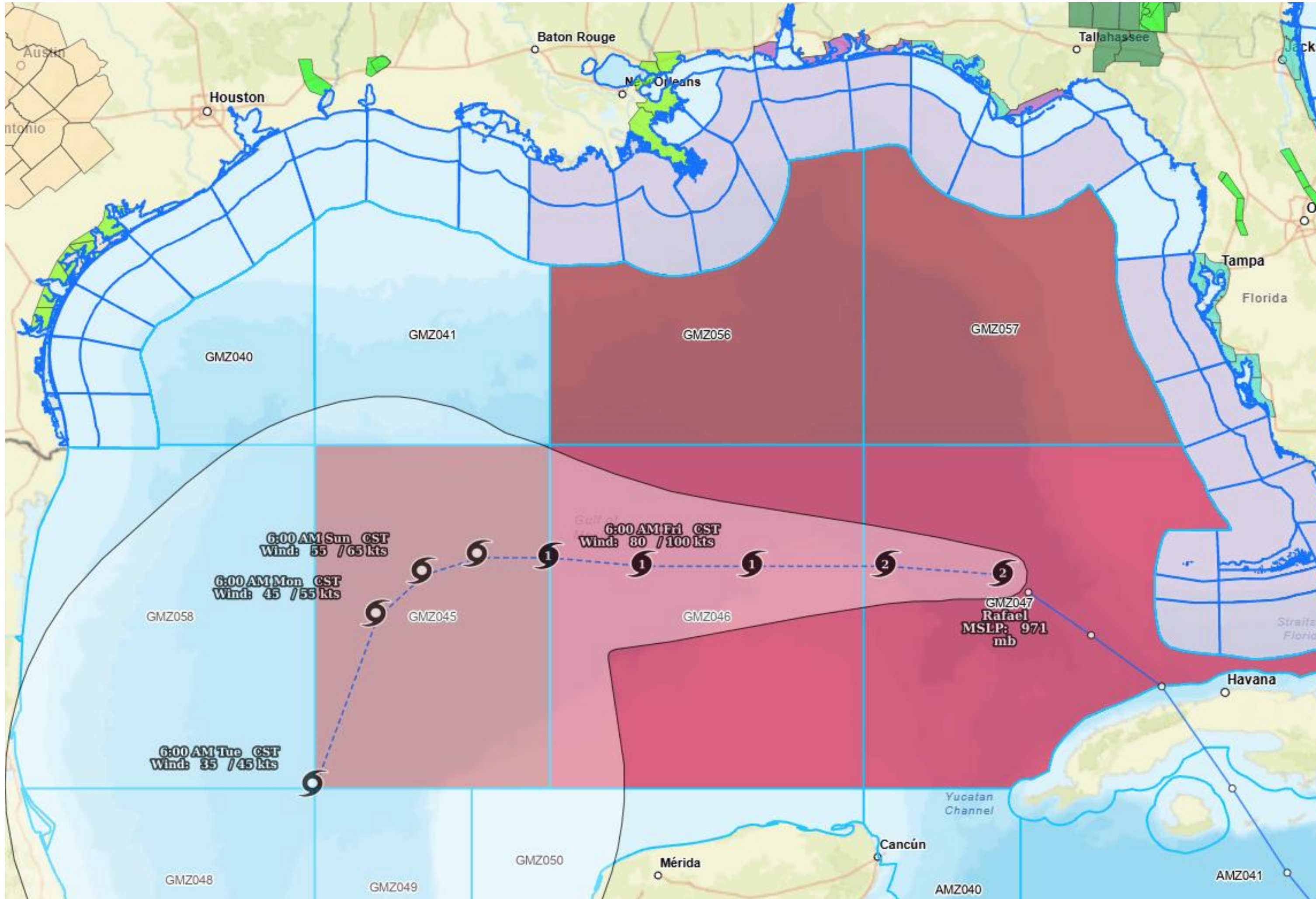
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Hurricane Rafael



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- Small Craft Advisory
- Tropical Storm Warning
- Hurricane Warning

T.S. Wind Speed Probabilities

Hurricane Rafael



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- Cameron, LA – 5%
- Galveston, TX – 5%
- Matagorda, TX – 5%
- Port O Connor – 5%

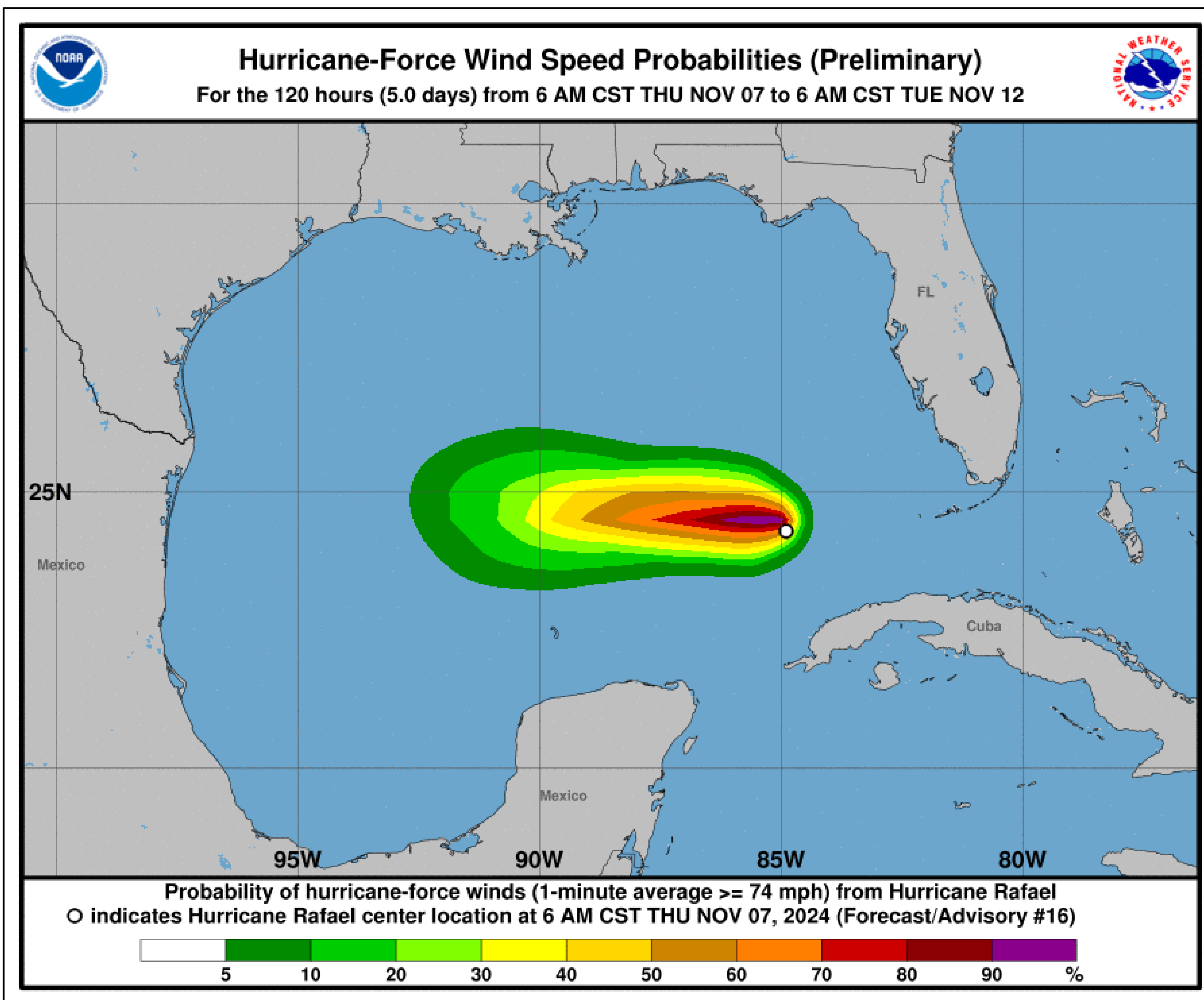
** Probabilities have gone down slightly since yesterday

Hurricane Wind Speed Probabilities

Hurricane Rafael



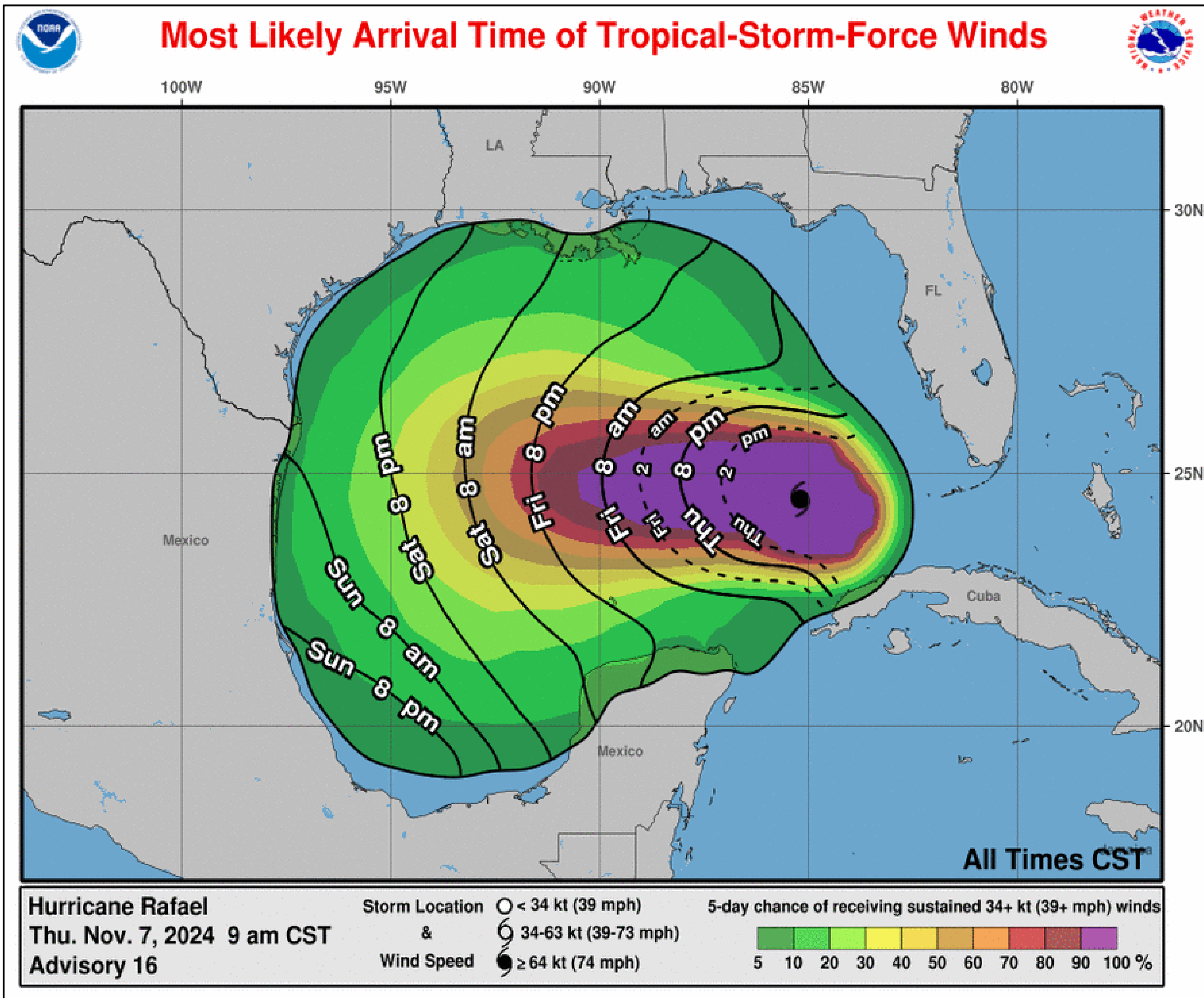
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- Hurricane force winds not expected to impact near land



Hurricane Rafael



- SE Louisiana: Friday night
- SW Louisiana: Saturday
- Texas – Saturday night

** continued slowing down/delayed onset of tropical storm force winds

Expected Storm Total Rainfall and Chance of Rainfall Flooding



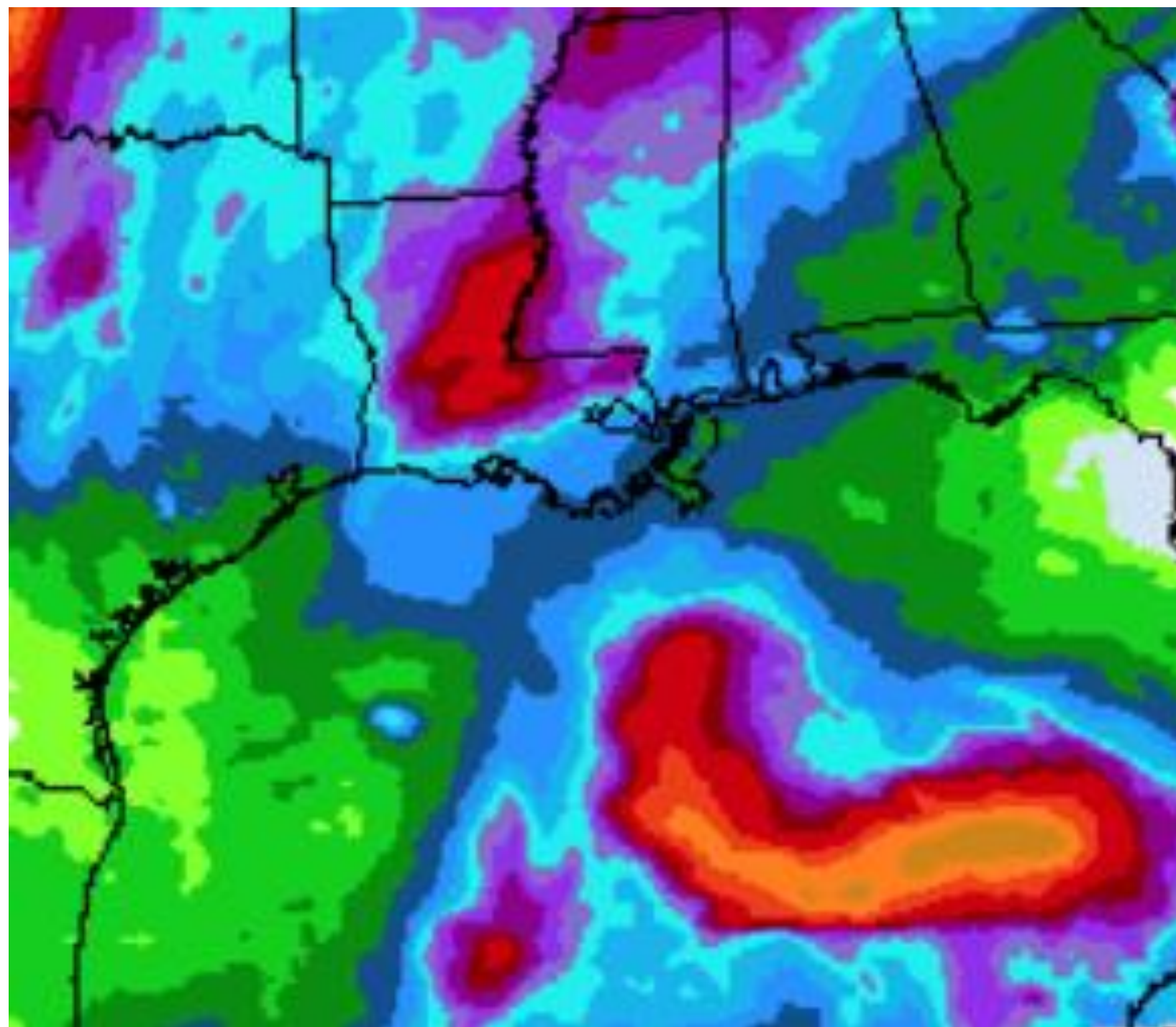
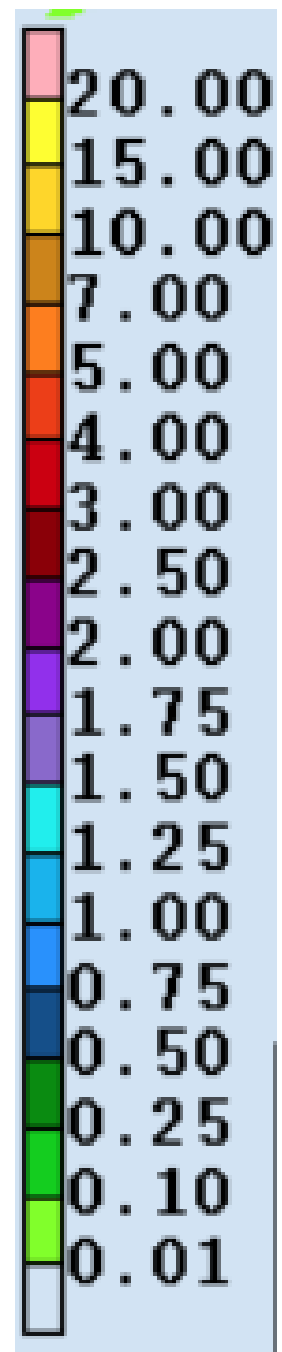
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Hurricane Rafael

Images from NWS Weather Prediction Center

Heavy rain possible Friday through the weekend
Not directly associated with Hurricane Rafael

Rainfall flood potential Saturday/Saturday night

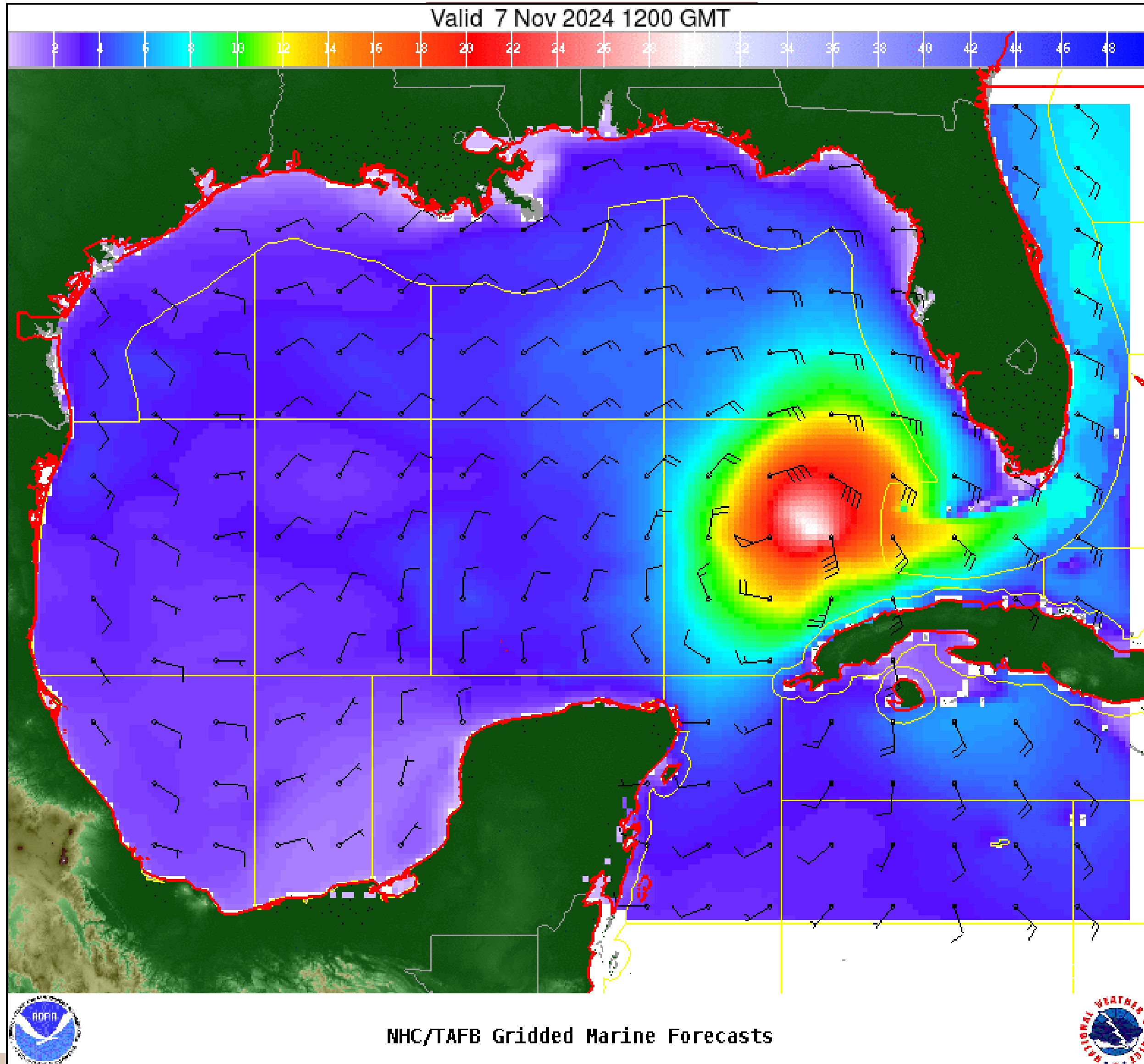


Wind And Waves

Hurricane Rafael



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Current Conditions

6 AM EST Today

Peak Winds: 85 kt

Peak Seas: 30 ft

■ Wave heights are in feet



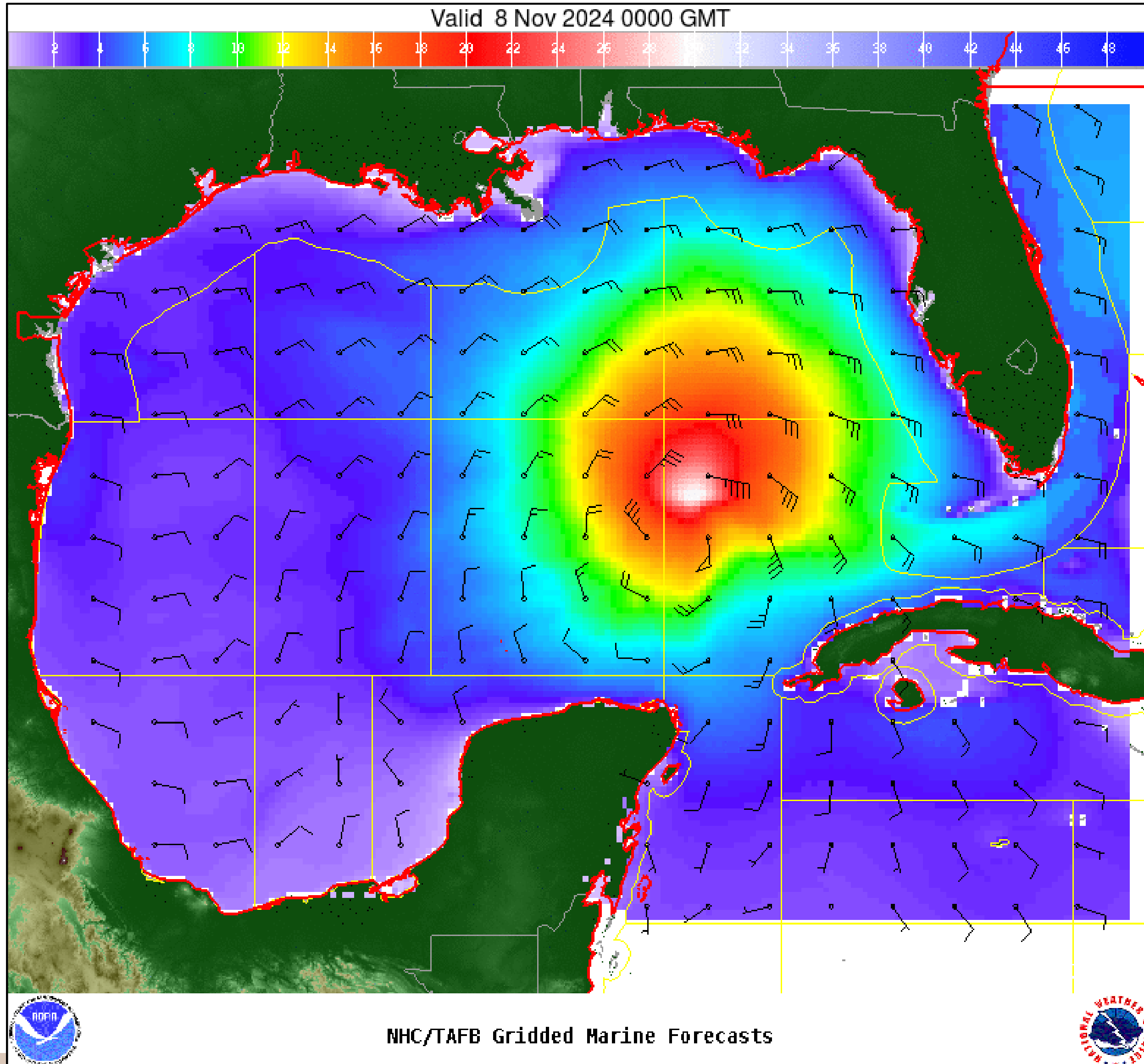
Significant Wave Height (ft)

Wind And Waves

Hurricane Rafael

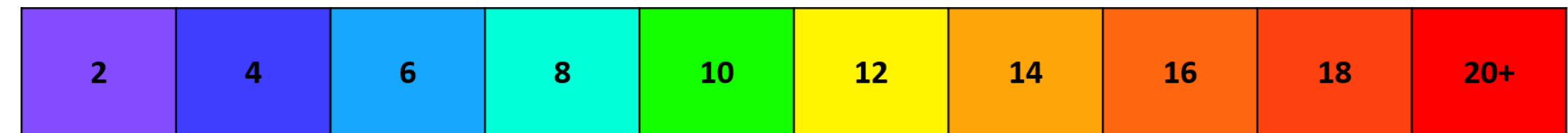


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This evening
6 PM EST Today
Peak Winds: 85 kt
Peak Seas: 30 ft

■ Wave heights are in feet



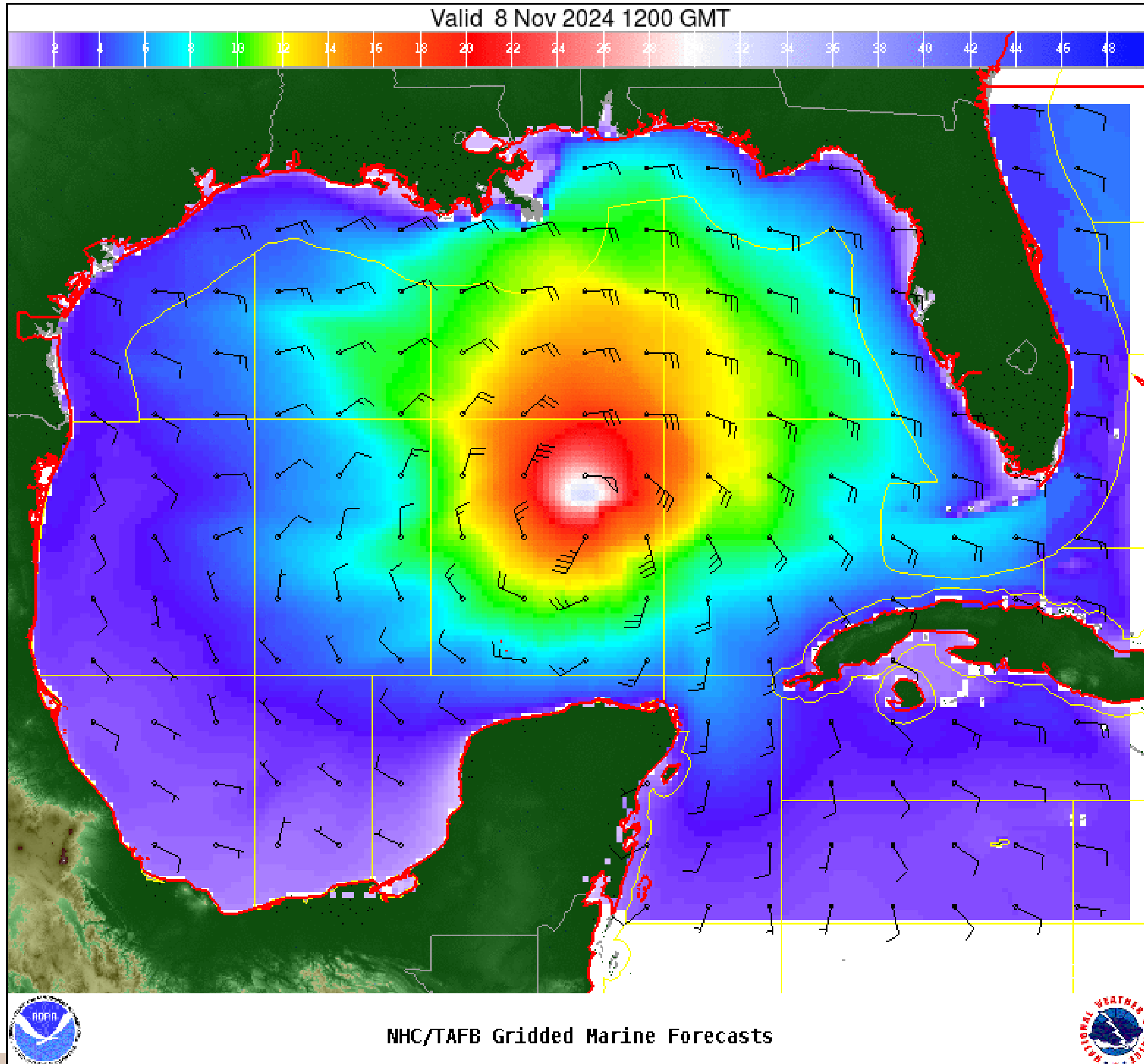
Significant Wave Height (ft)

Wind And Waves

Hurricane Rafael



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Friday

6 AM EST

Peak Winds: 80 kt

Peak Seas: 30 ft

■ Wave heights are in feet



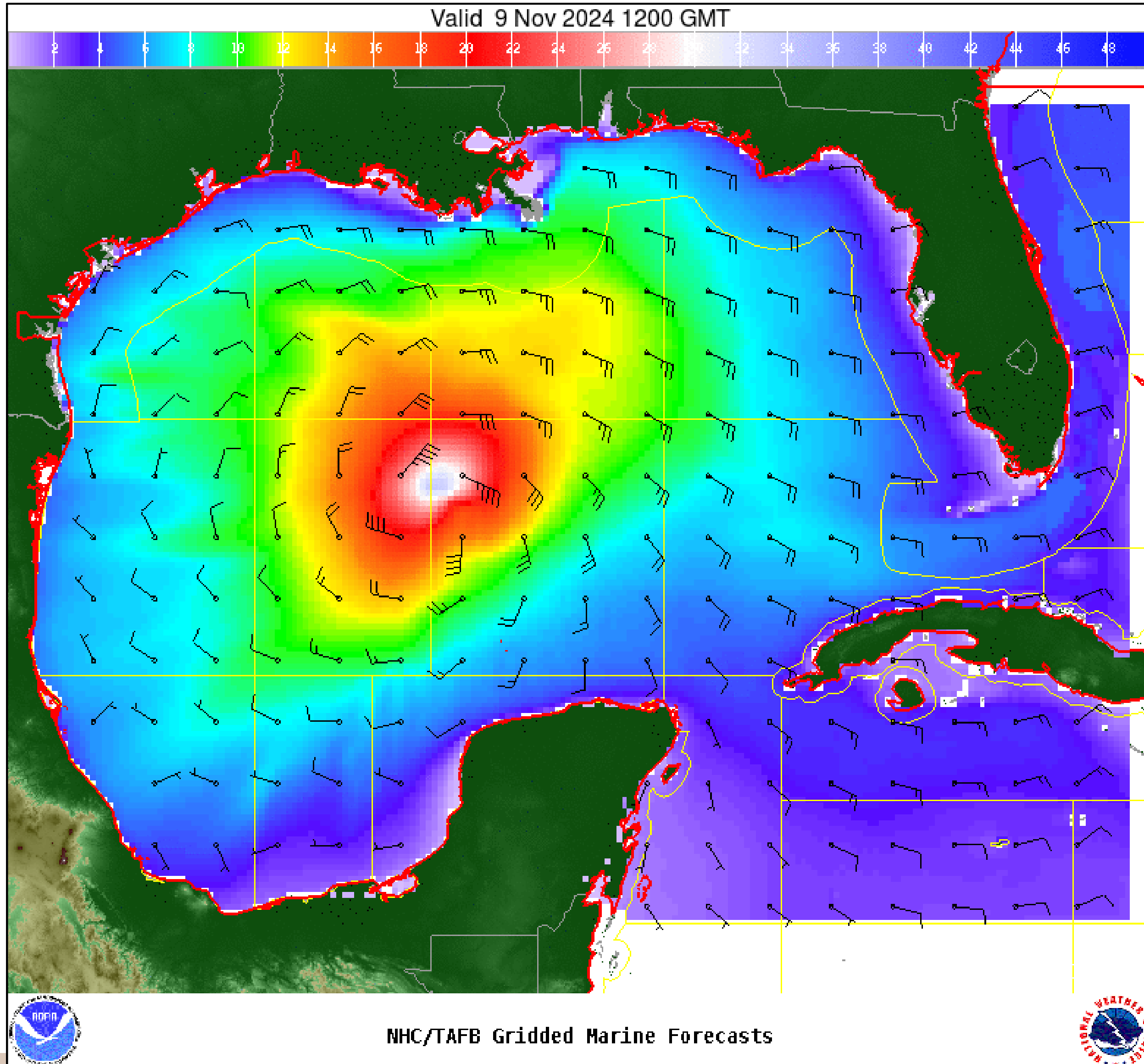
Significant Wave Height (ft)

Wind And Waves

Hurricane Rafael



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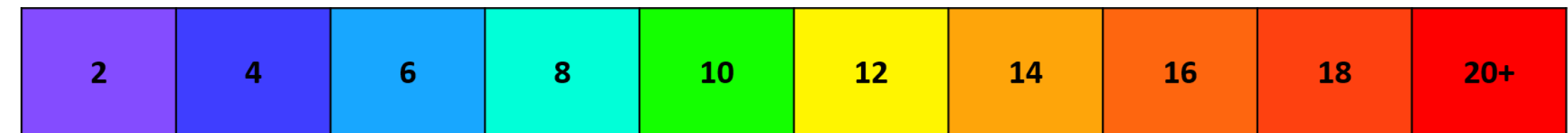
Saturday

6 AM EST

Peak Winds: 65 kt

Peak Seas: 30 ft

■ Wave heights are in feet



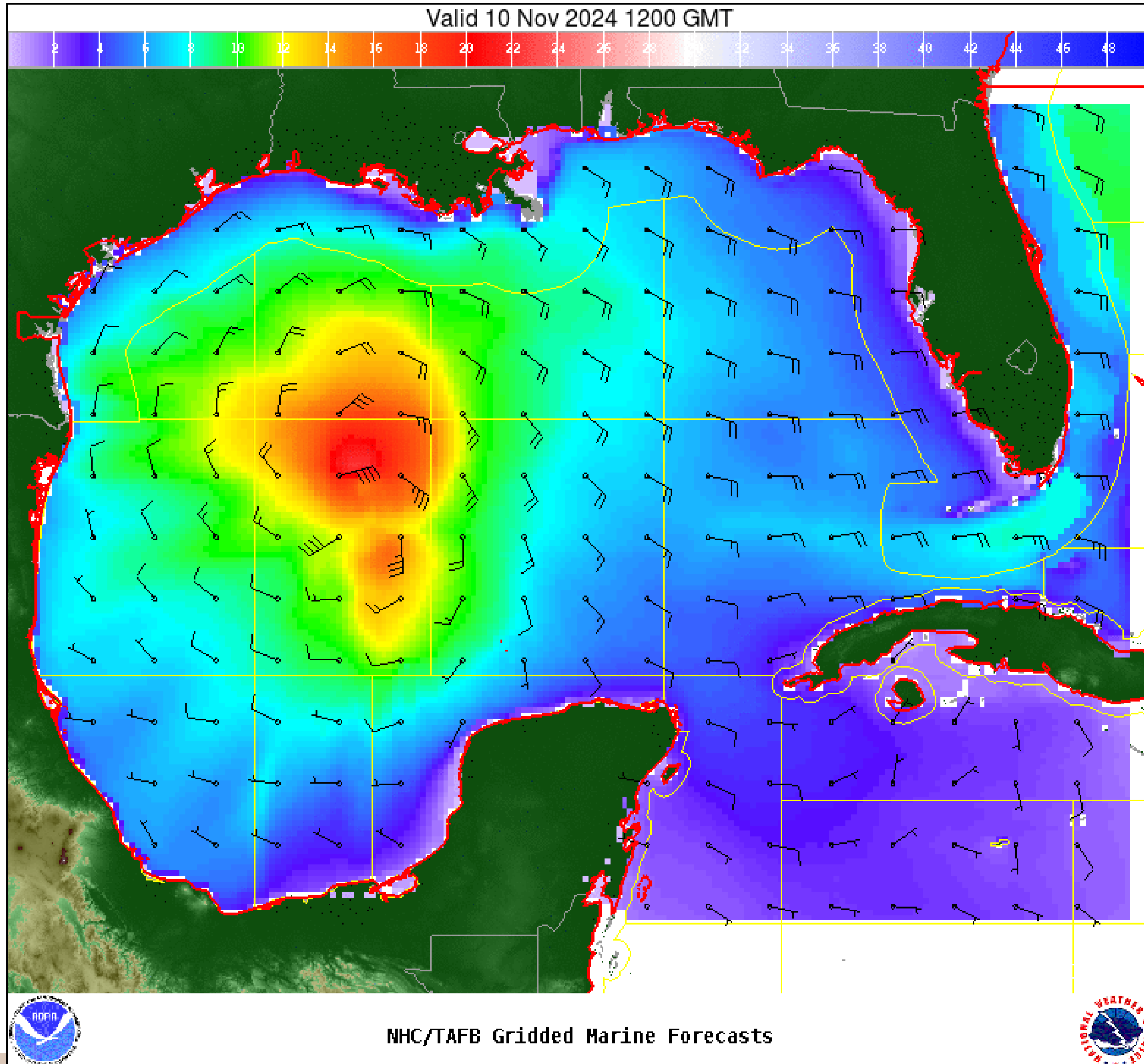
Significant Wave Height (ft)

Wind And Waves

Hurricane Rafael



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Sunday

6 AM EST

Peak Winds: 55 kt

Peak Seas: 25 ft

■ Wave heights are in feet



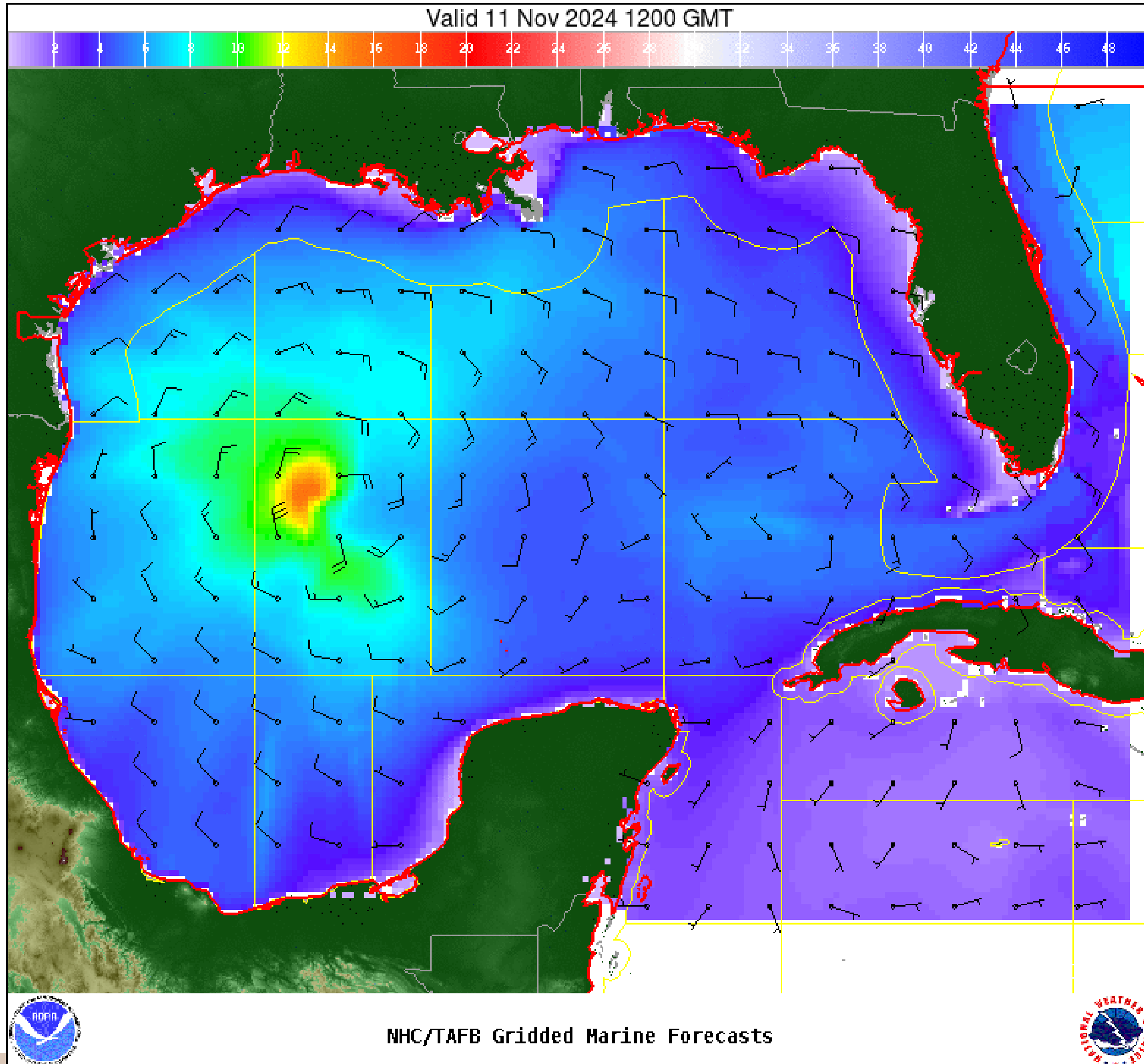
Significant Wave Height (ft)

Wind And Waves

Hurricane Rafael



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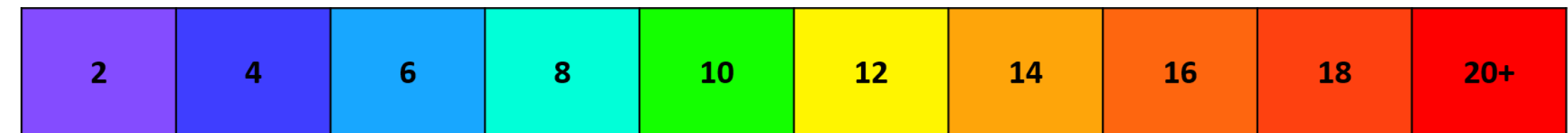
Monday

6 AM EST

Peak Winds: 45 kt

Peak Seas: 18 ft

■ Wave heights are in feet



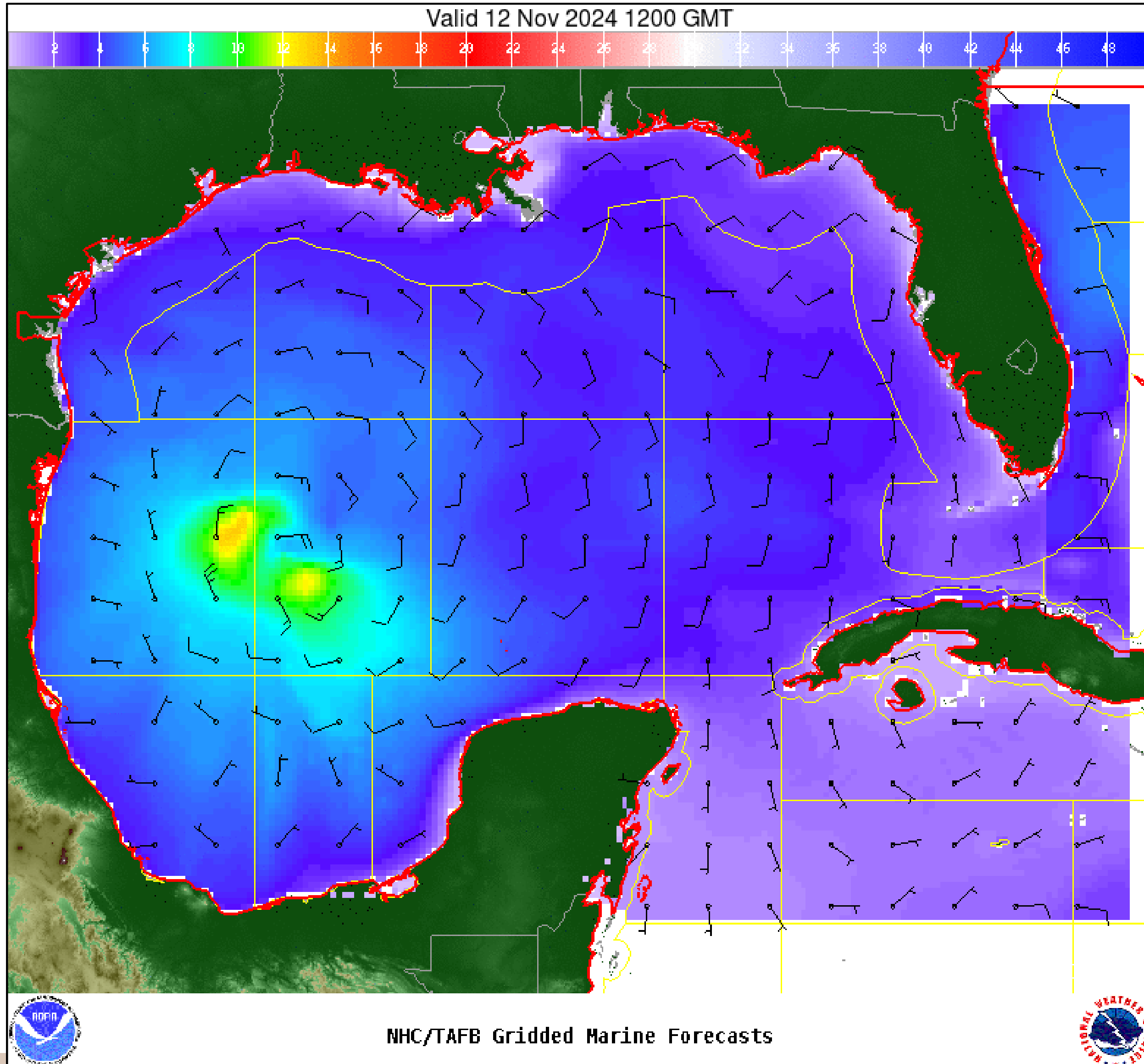
Significant Wave Height (ft)

Wind And Waves

Hurricane Rafael



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Tuesday

6 AM EST

Peak Winds: 35 kt

Peak Seas: 15 ft

■ Wave heights are in feet



Significant Wave Height (ft)

Key Messages

Hurricane Rafael



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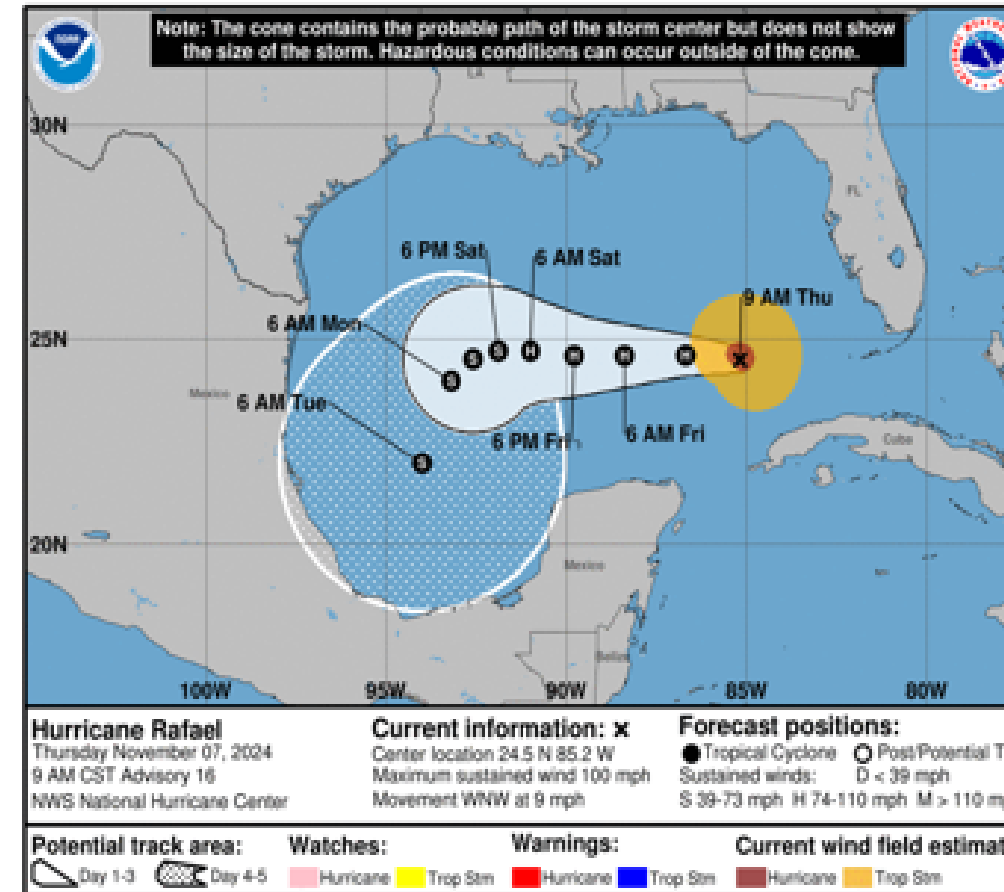


Key Messages for Hurricane Rafael Advisory 16: 9:00 AM CST Thu Nov 07, 2024



1. Hurricane Rafael will continue to bring periods of heavy rain to western Cuba today. Flash flooding and mudslides are possible along the higher terrain.

2. Rafael is forecast to move slowly over the south-central Gulf of Mexico this weekend and early next week. Interests in the southern and southwestern Gulf of Mexico should monitor the progress of this system.



For more information go to hurricanes.gov

- Marine Key Messages:
 - Hurricane Force winds and very hazardous seas (30 ft) spreading from SE to Central Gulf of Mexico into the weekend
 - Significant uncertainty in forecast track late this weekend and beyond
 - Current forecast keep most significant impacts away from land

This briefing was prepared by:
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TIME of NEXT NHC Advisory:
21 UTC: 3 PM CST

HURRICANE RAFAEL BRIEFING

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

The Next Briefing Will Be:
Friday | 1:00 AM CST

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



NHC_TAFB

www.nhc.noaa.gov