**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 - None** 

**US Rainfall/Flash Flooding – Low** 

**US Tornadoes – None** 

# HURRICANE RAFAEL BRIEFING



11:00 AM CST

Friday, November 8, 2024
Prepared by:

Stephen Konarik

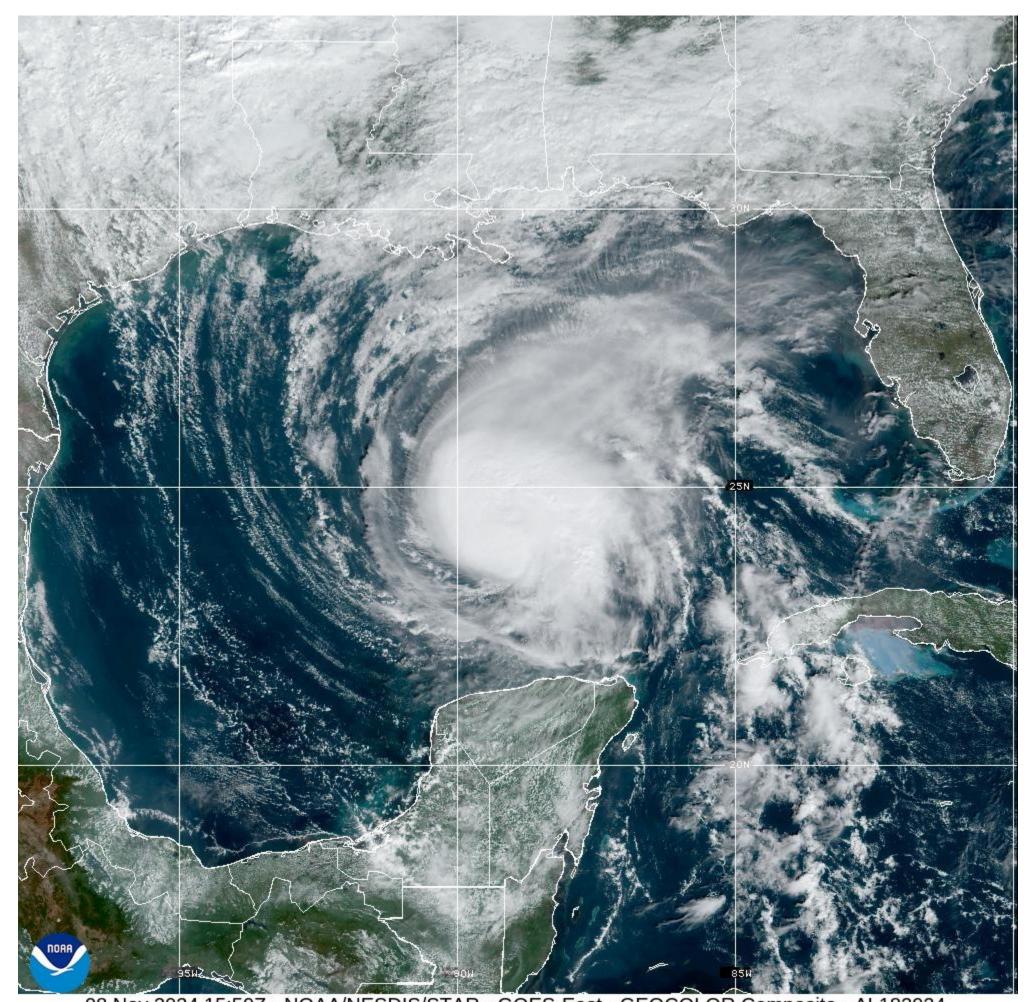
Tropical Analysis and Forecast Branch NWS National Hurricane Center



 Rafael strengthened overnight, but has now slightly weakened

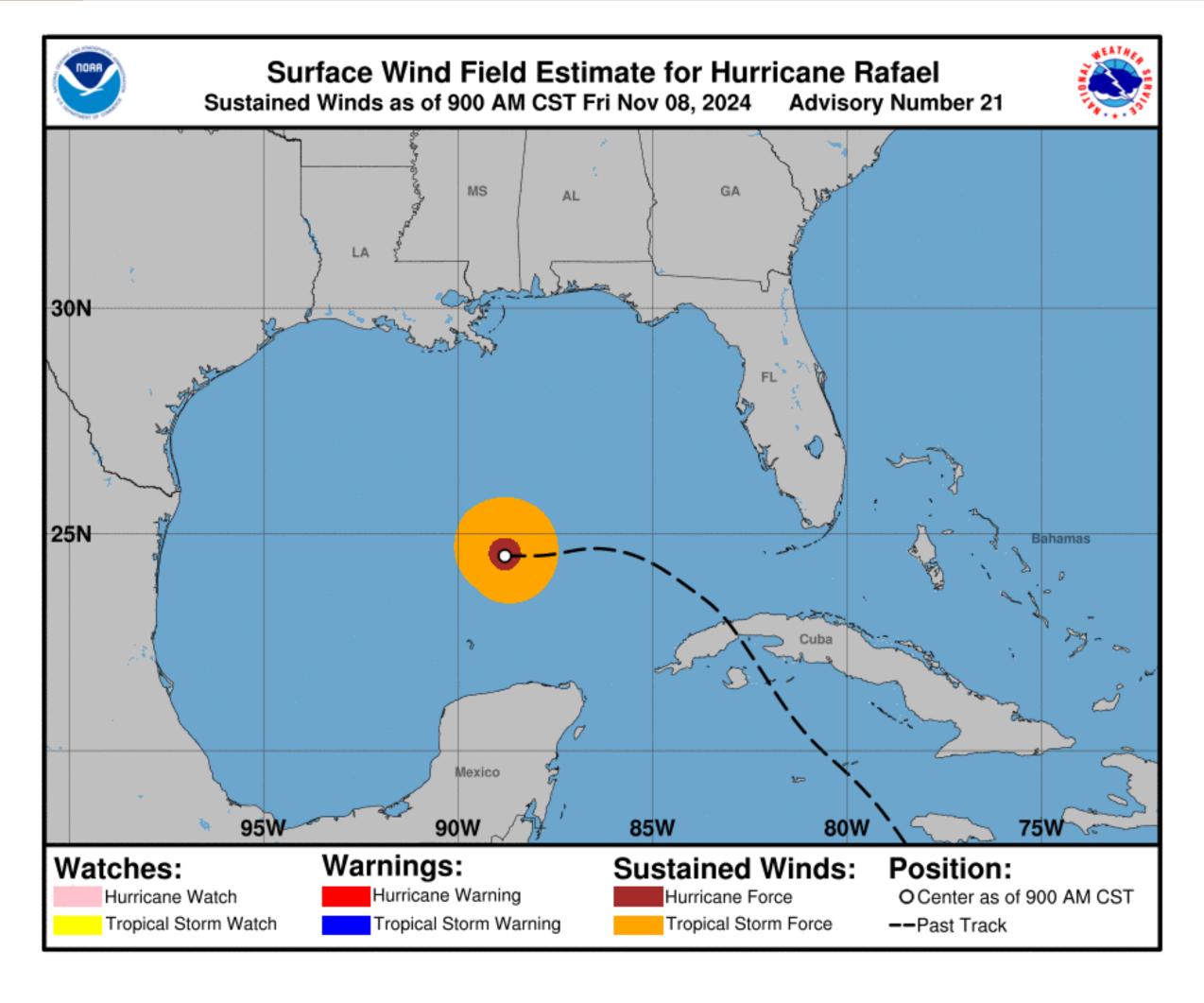
 Hurricane Rafael has moved W into the central Gulf of Mexico

 Area of I2 ft or higher seas is expanding (now 200-300 NM from center)



08 Nov 2024 15:50Z - NOAA/NESDIS/STAR - GOES-East - GEOCOLOR Composite - AL182024

#### Hurricane Rafael



## ...RAFAEL REMAINS A POWERFUL COMPACT HURRICANE OVER THE CENTRAL GULF OF MEXICO...

SUMMARY OF 900 AM CST... I 500 UTC...

\_\_\_\_\_

LOCATION...24.5N 88.8W

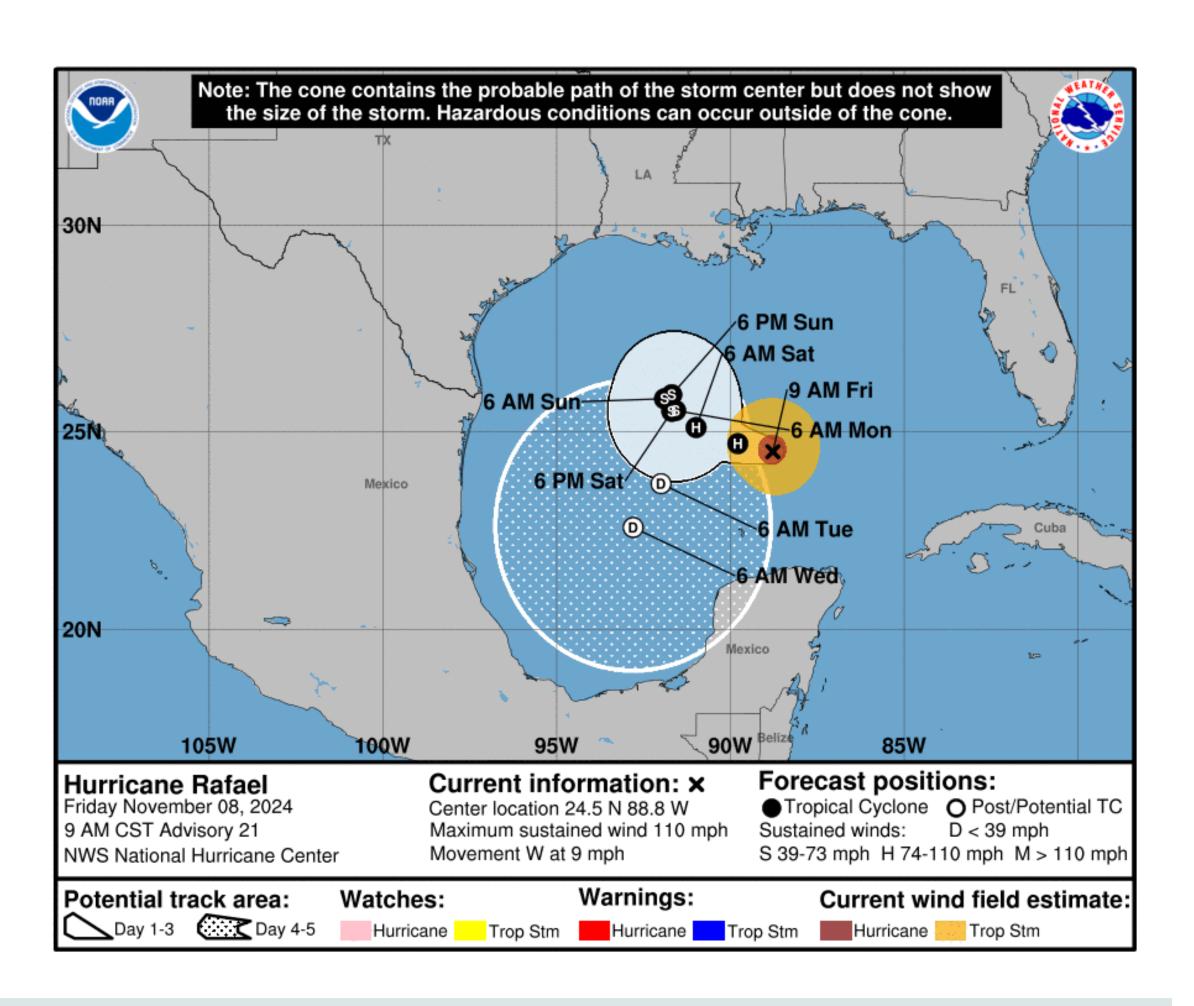
ABOUT 740 NMW of Texas/Mexico border

MAXIMUM SUSTAINED WINDS...95 KT

PRESENT MOVEMENT...W at 8 KT

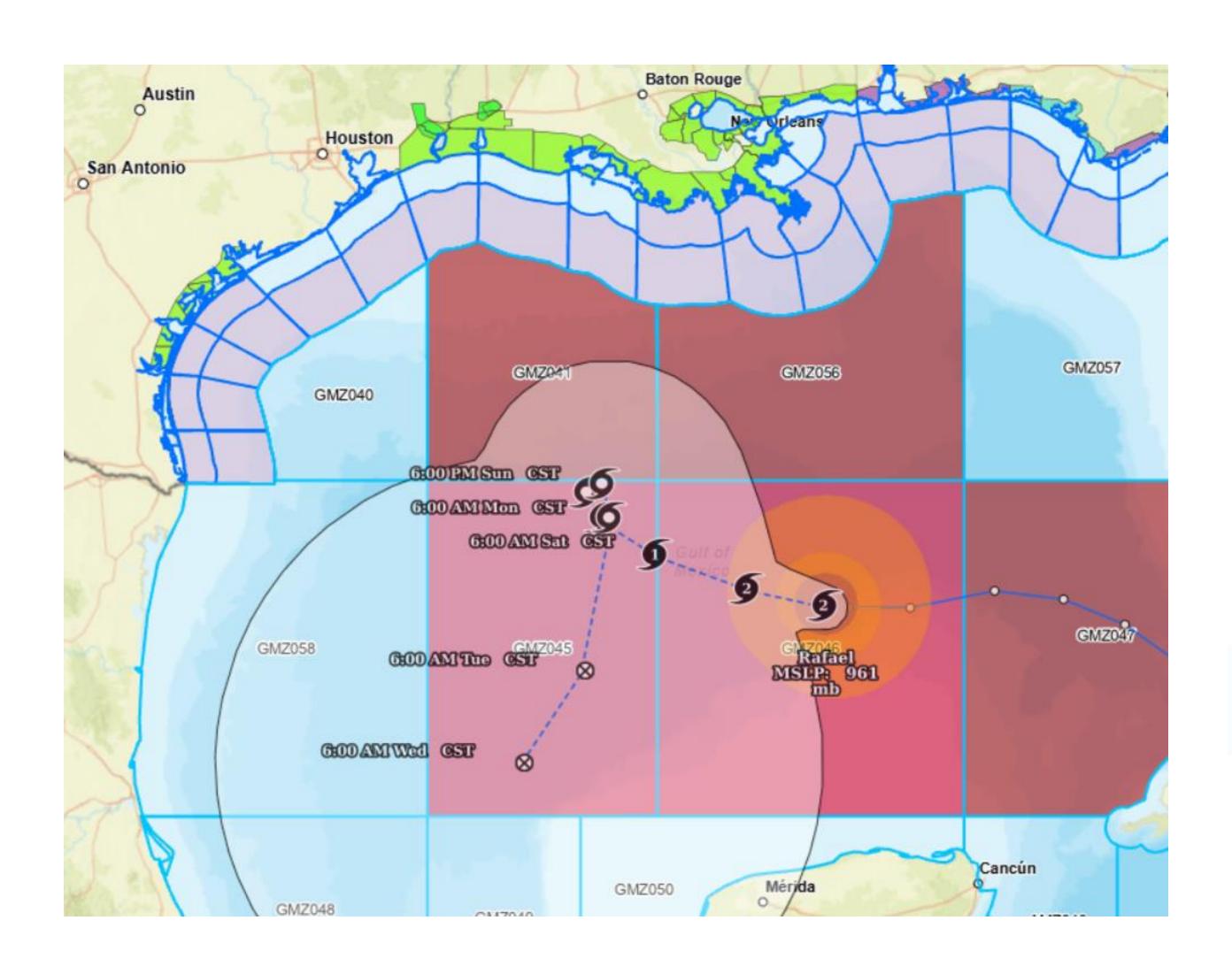
12 FT SEAS..270NE 90SE 120SW 240NW.

#### Hurricane Rafael



- Hurricane Rafael should move WNW and slow down over the next 24 hours
- Dry air and increasing wind shear should causing increasingly fast weakening
- Weak cold front over TX/LA should force Rafael to stall this weekend.
- Stronger cold front for the start of next week
   likely to push Rafael or its remnants S

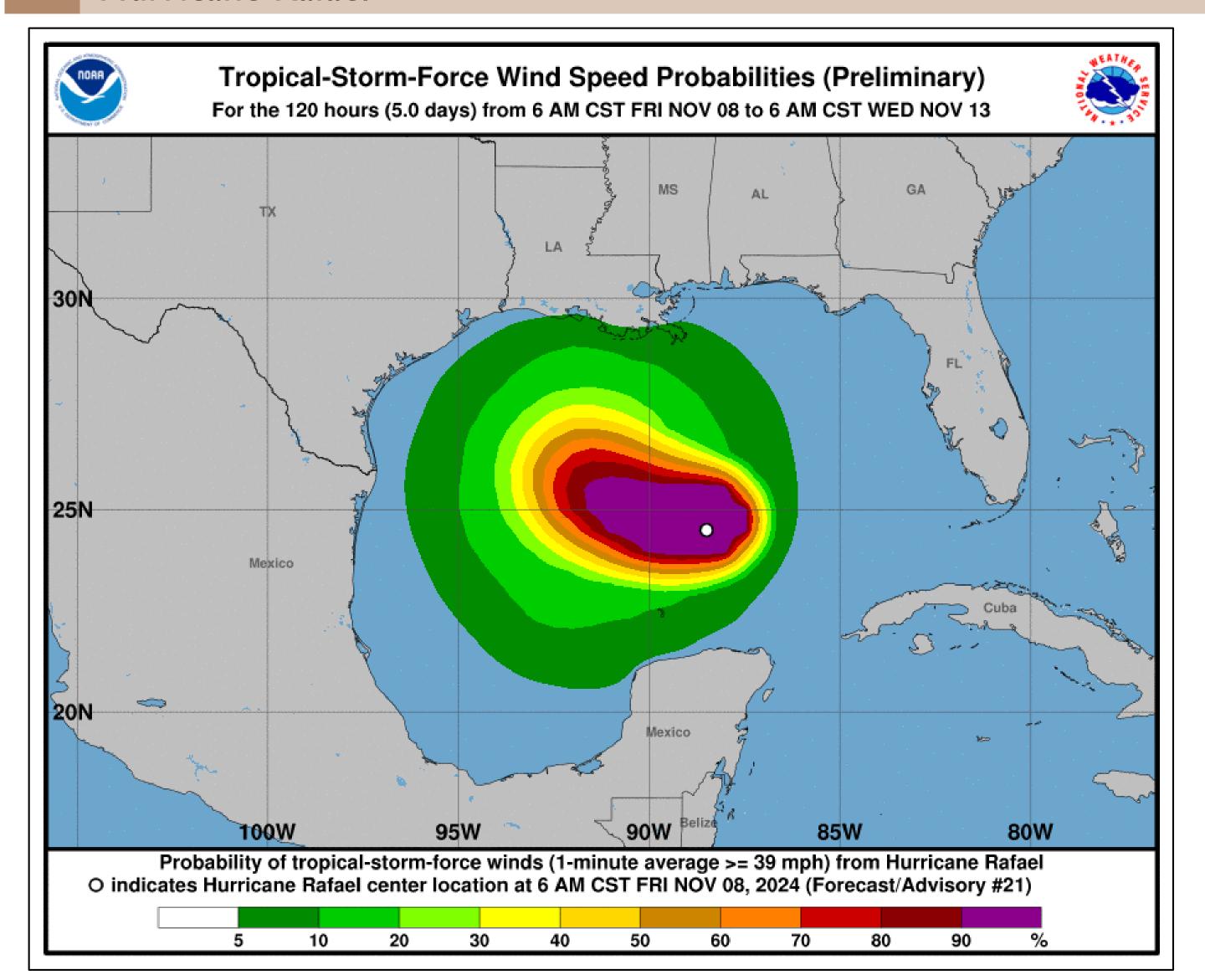
**NOTE:** Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.



- Hurricane Warning
- Tropical Storm Warning
- High Surf Advisory (9)
- Coastal Flood Advisory
- Small Craft Advisory
- Rip Current Statement

## Tropical Analysis and Forecast Branch NWS National Hurricane Center

#### Hurricane Rafael



- Cameron, LA 5%
- Galveston, TX 5%
- Matagorda, TX 5%

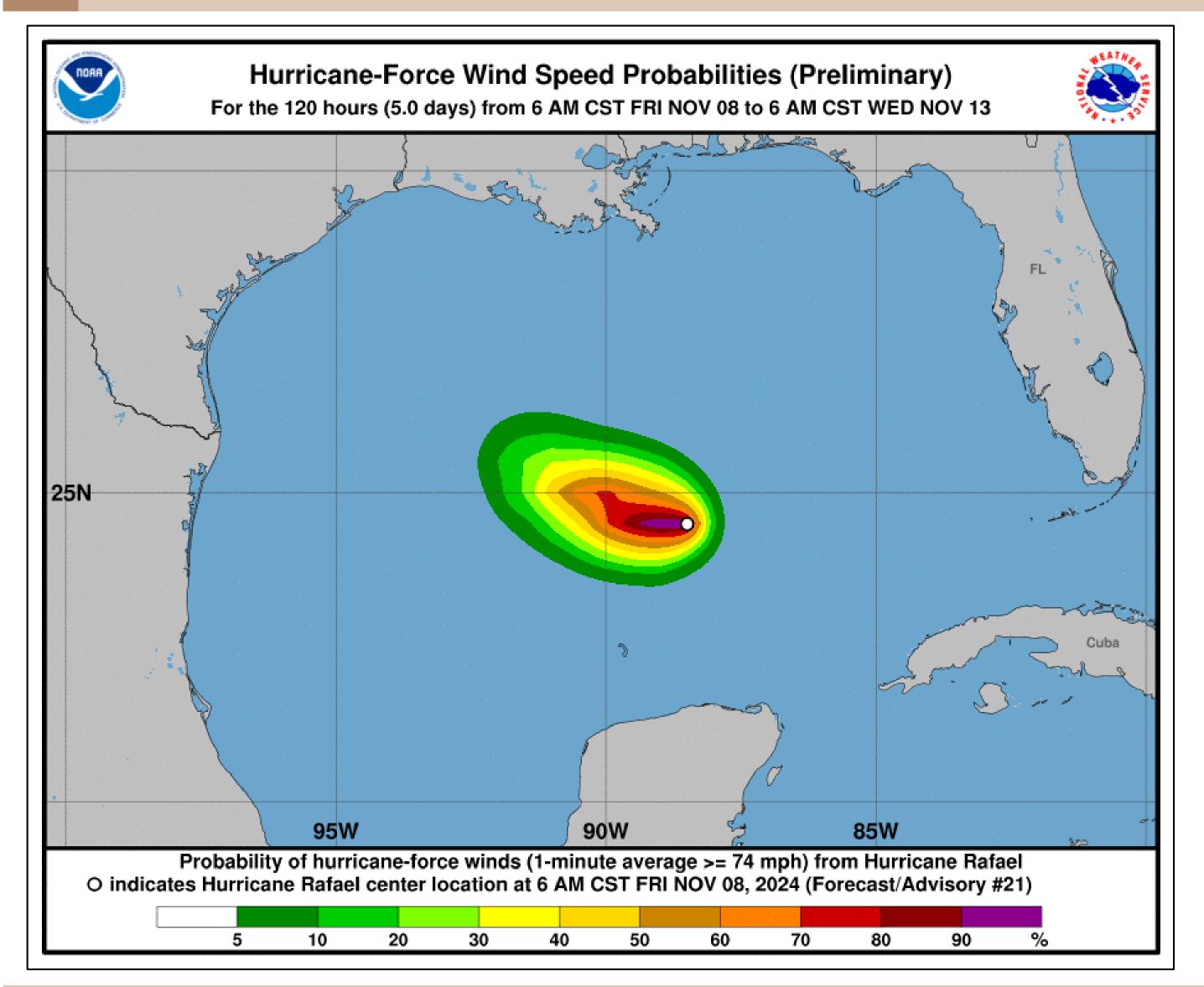
\*\* TS Force winds still can't completely be ruled out along the immediate LA and middle and upper TX coasts.

\*\*IFTS winds occur, Saturday/Saturday night is most likely time.

## Hurricane Wind Speed Probabilities

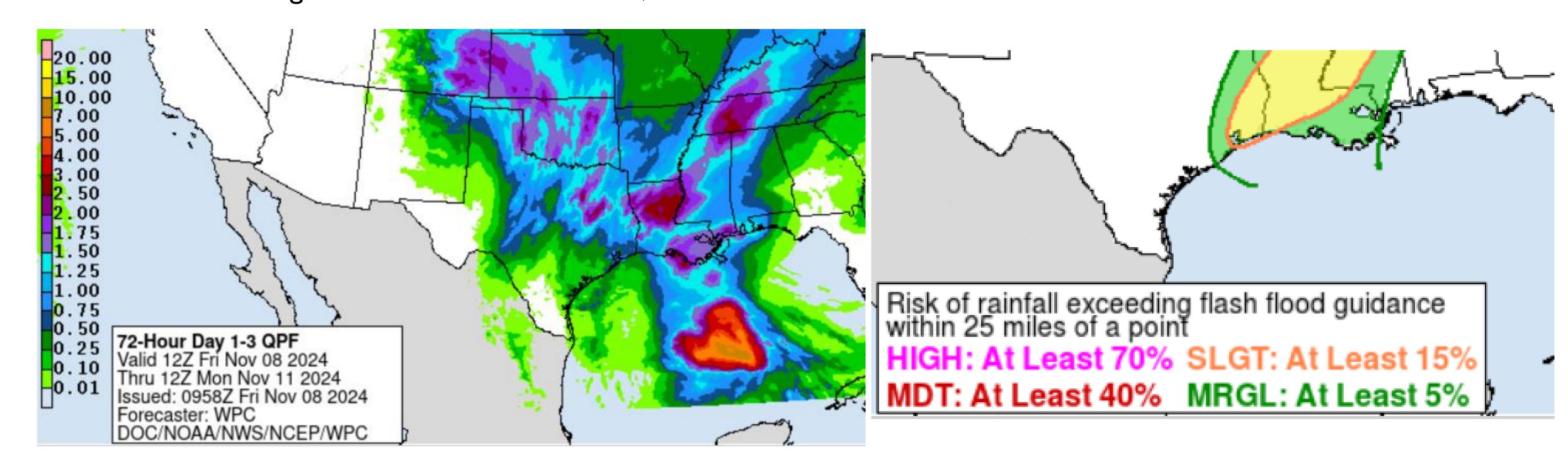
#### Hurricane Rafael





 Hurricane force winds will be confined well offshore over central Gulf of Mexico

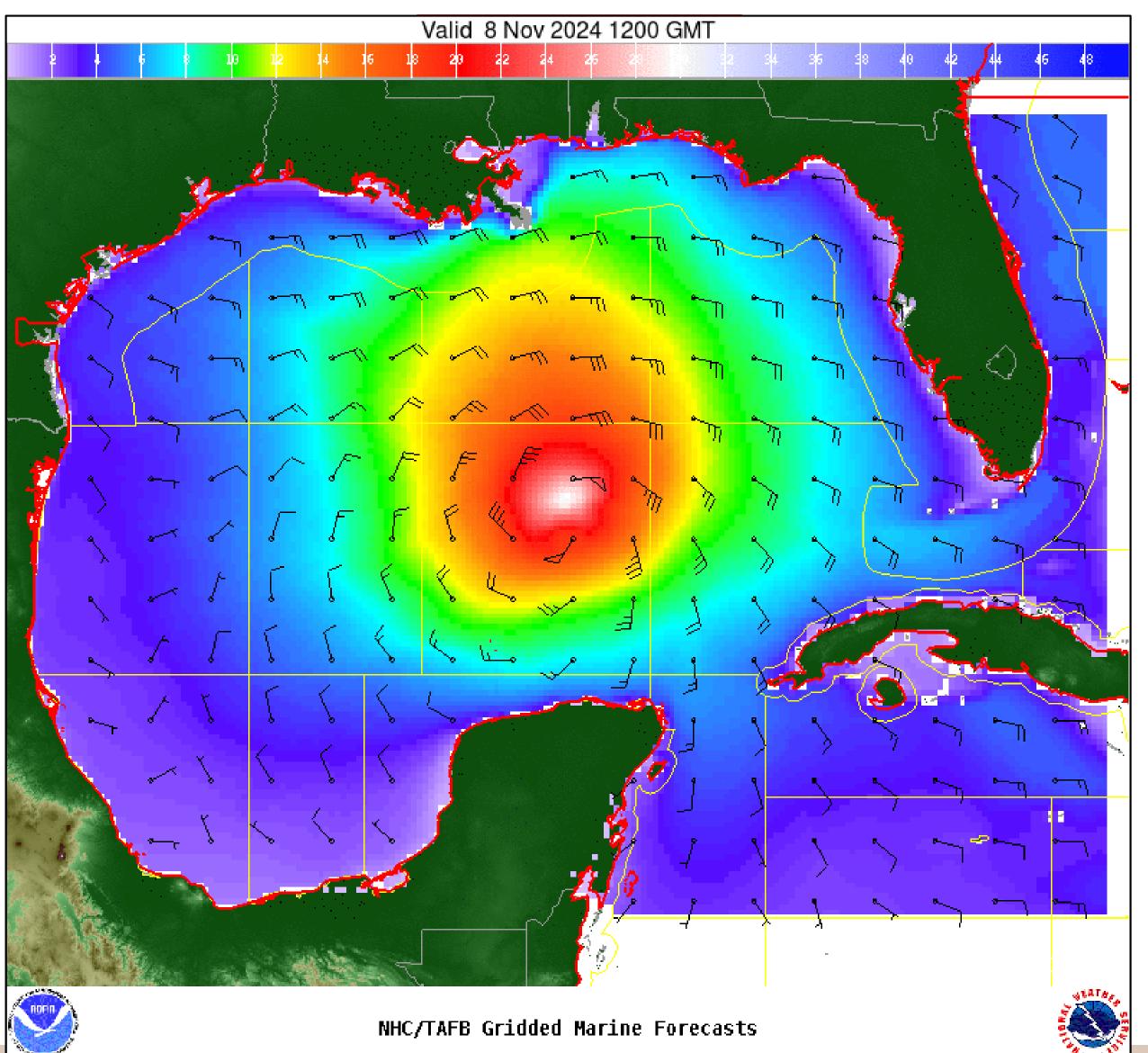
#### Rainfall flooding threat is due to cold fronts, not Rafael



#### Hurricane Rafael



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Current Conditions (6AM CST)

Peak Winds: 95 KT

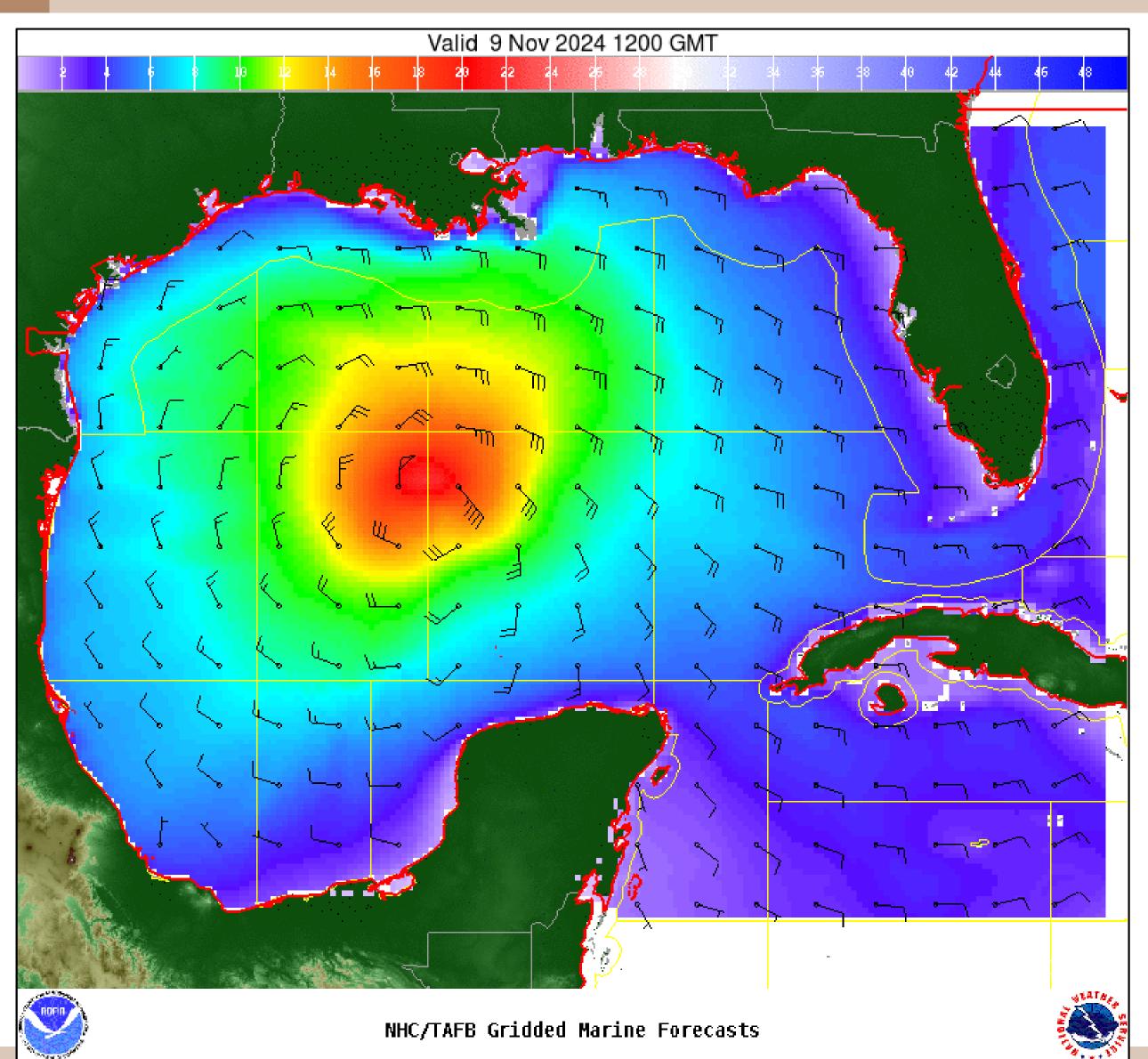
Peak Seas: 30 FT

#### Wave heights are in feet



#### Hurricane Rafael





Saturday (6AM CST)

Peak Winds: 70 KT

Peak Seas: 25 FT

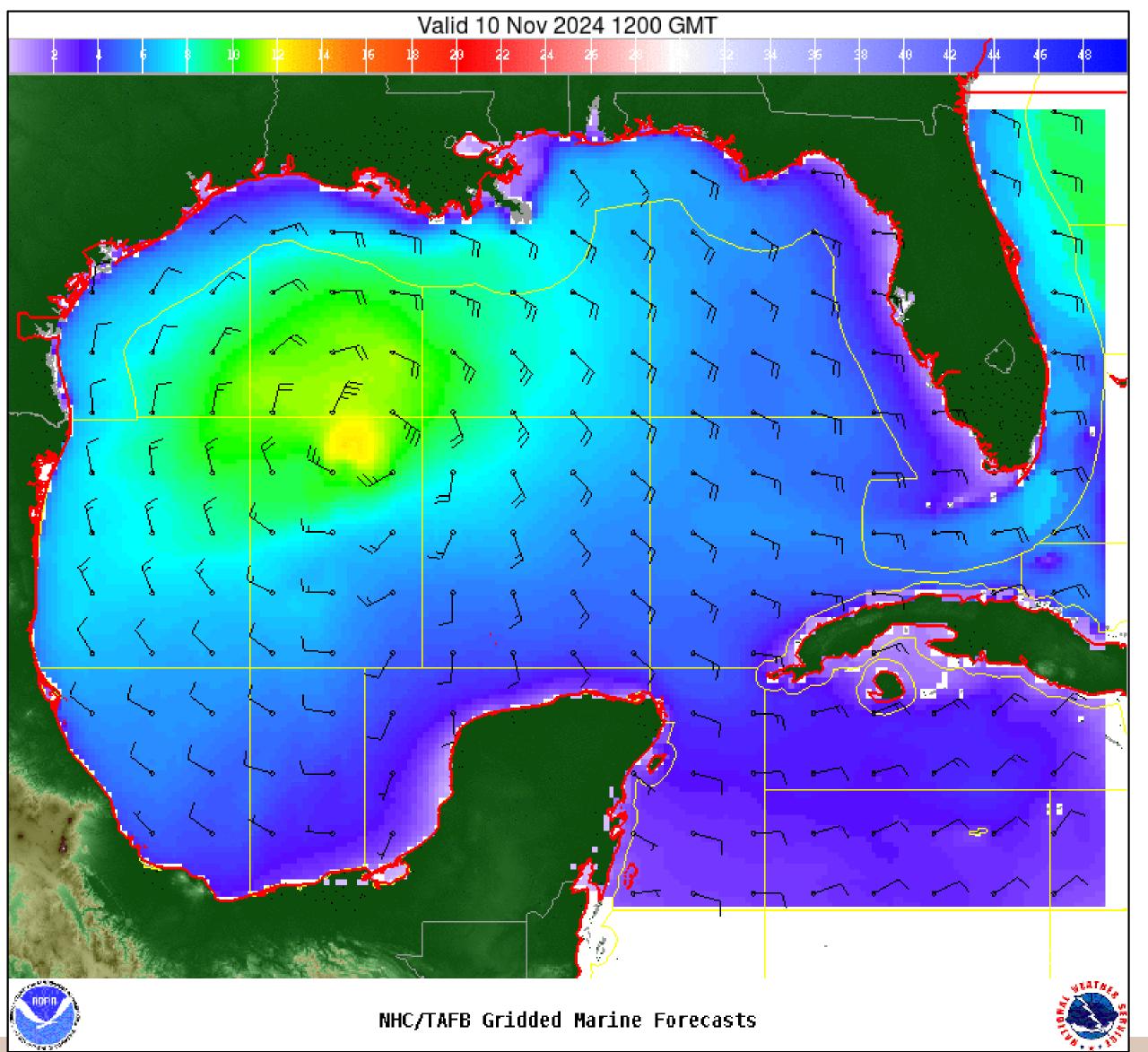
#### Wave heights are in feet



#### Hurricane Rafael



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Sunday (6AM CST)

Peak Winds: 45 KT

Peak Seas: 18 FT

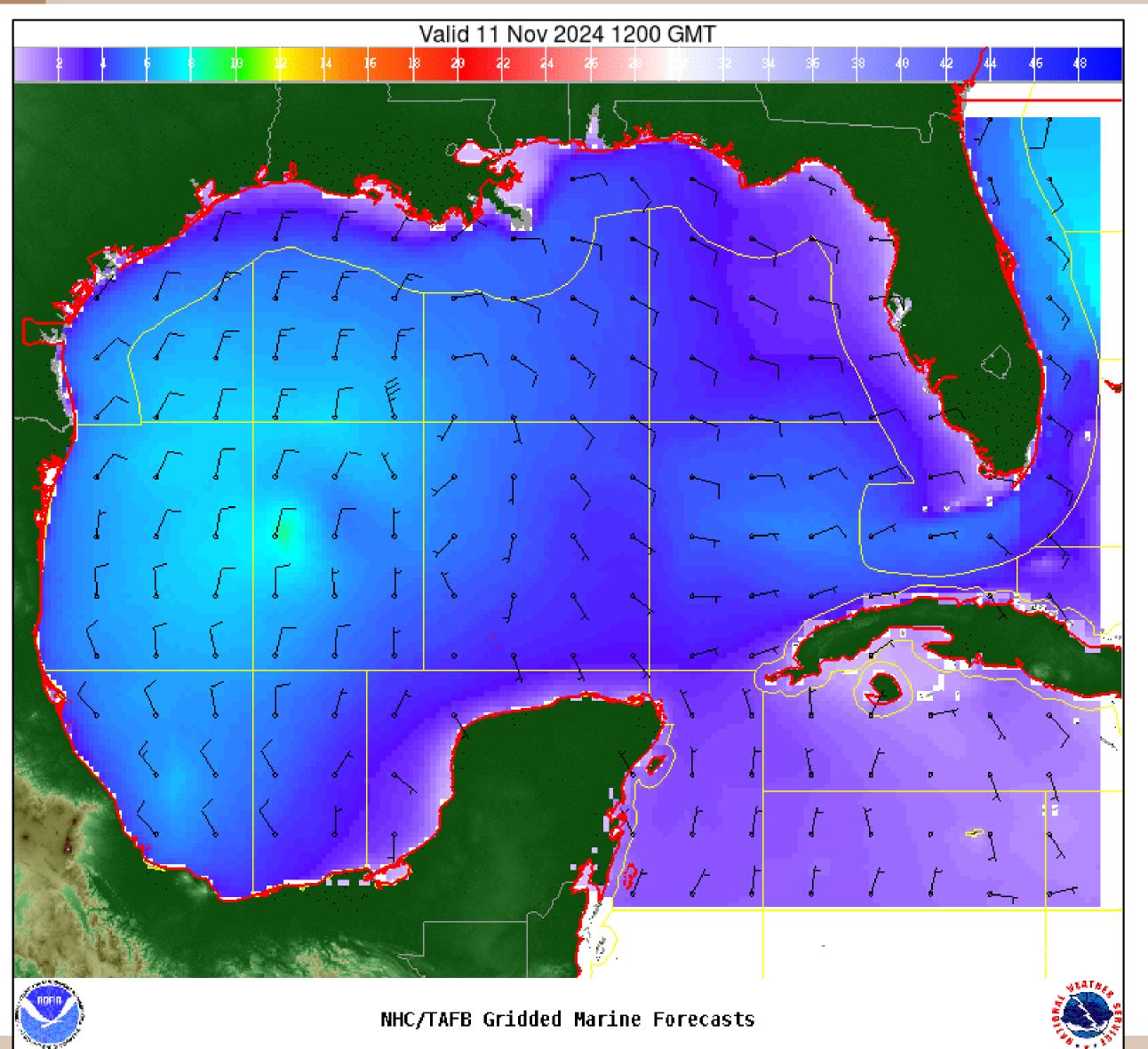
#### Wave heights are in feet



#### Hurricane Rafael



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Monday (6AM CST)

Peak Winds: 35 KT

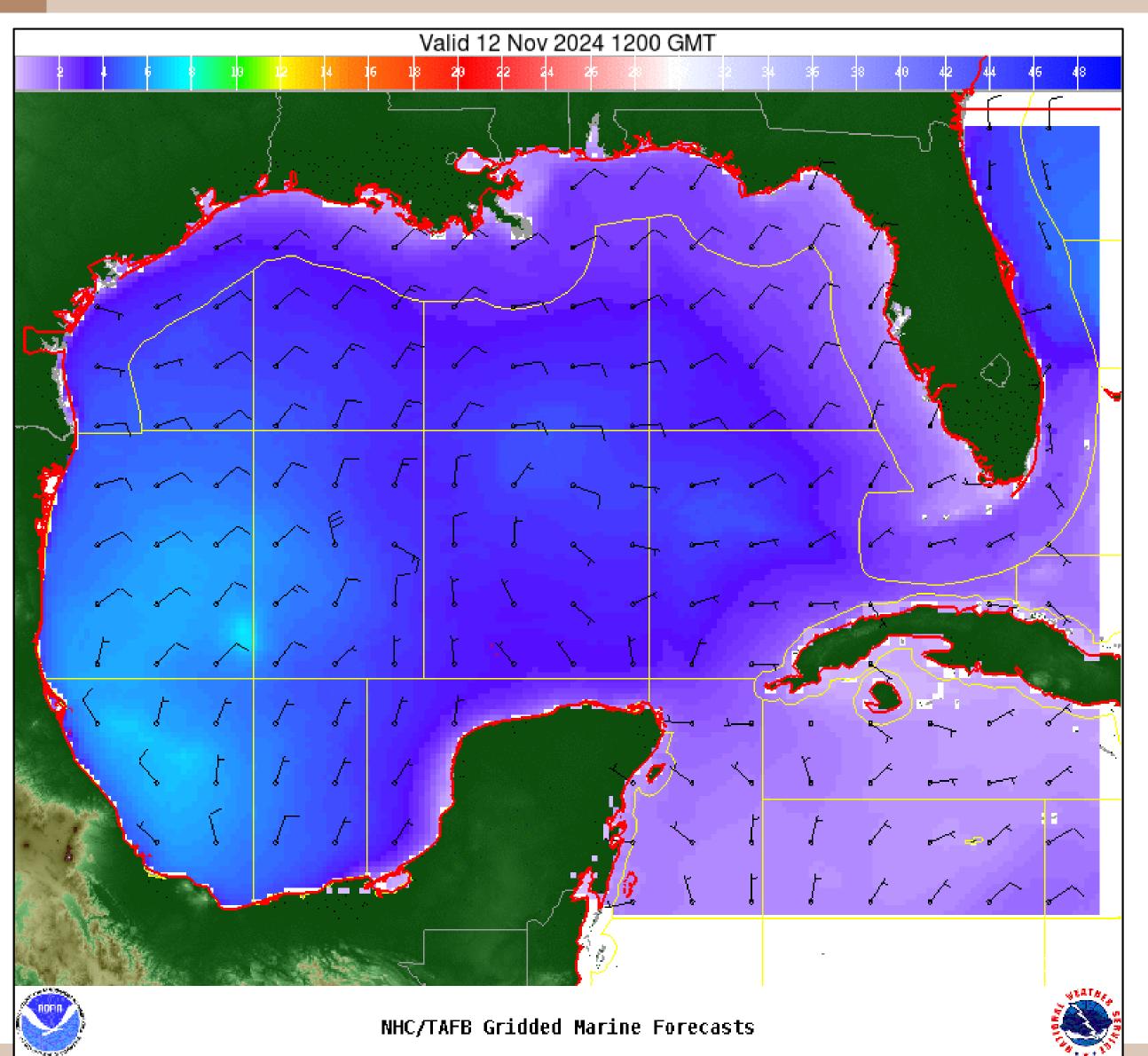
Peak Seas: 12 FT

#### Wave heights are in feet



#### Hurricane Rafael





Tuesday (6AM CST)

Peak Winds: 30 KT

Peak Seas: 9 FT

#### Wave heights are in feet



#### Hurricane Rafael

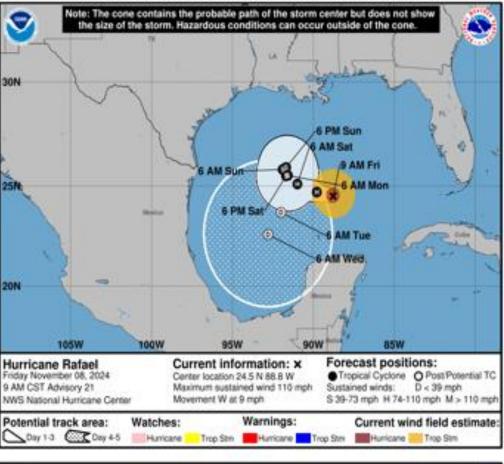


## Tropical Analysis and Forecast Branch NWS National Hurricane Center



#### Key Messages for Hurricane Rafael Advisory 21: 9:00 AM CST Fri Nov 08, 2024

- 1. Swells generated by Rafael are likely to cause life-threatening surf and rip current conditions along the Gulf Coast for the next few days.
- Rafael is forecast to move slowly over the 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 seas to 30 ft central Gulf into Saturday
- Near the coast: very dangerous rip currents, rough/high surf, some coastal/tidal flooding through the weekend
- Near the coast: strong NE winds and seas 8 12 ft through Saturday
- Quickly improving conditions Sun into Mon

**IMPACTS FOR District 8** 

Winds/US Coast – Low

Winds/SRR - High

Waves/US Coastal – Low

Waves/SRR - High

**US Rainfall/Flash Flooding – Low** 



#### 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

This briefing was prepared by:
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You can always find get the latest graphics and information for this storm at www.hurricanes.gov

