

**IMPACTS FOR D8**

**Winds/US Coast – High**

**Winds/SRR – High**

**Waves/US Coastal – Extreme**

**Waves/SRR – Extreme**

through next 5 days

**US Storm Surge – Extreme**

**US Rainfall/Flash Flooding – High**

**US Tornadoes – Low**

# TROPICAL STORM FRANCINE BRIEFING



11 AM CDT  
Monday, September 9, 2024

Prepared by:

**Keren Rosado-Vázquez**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*

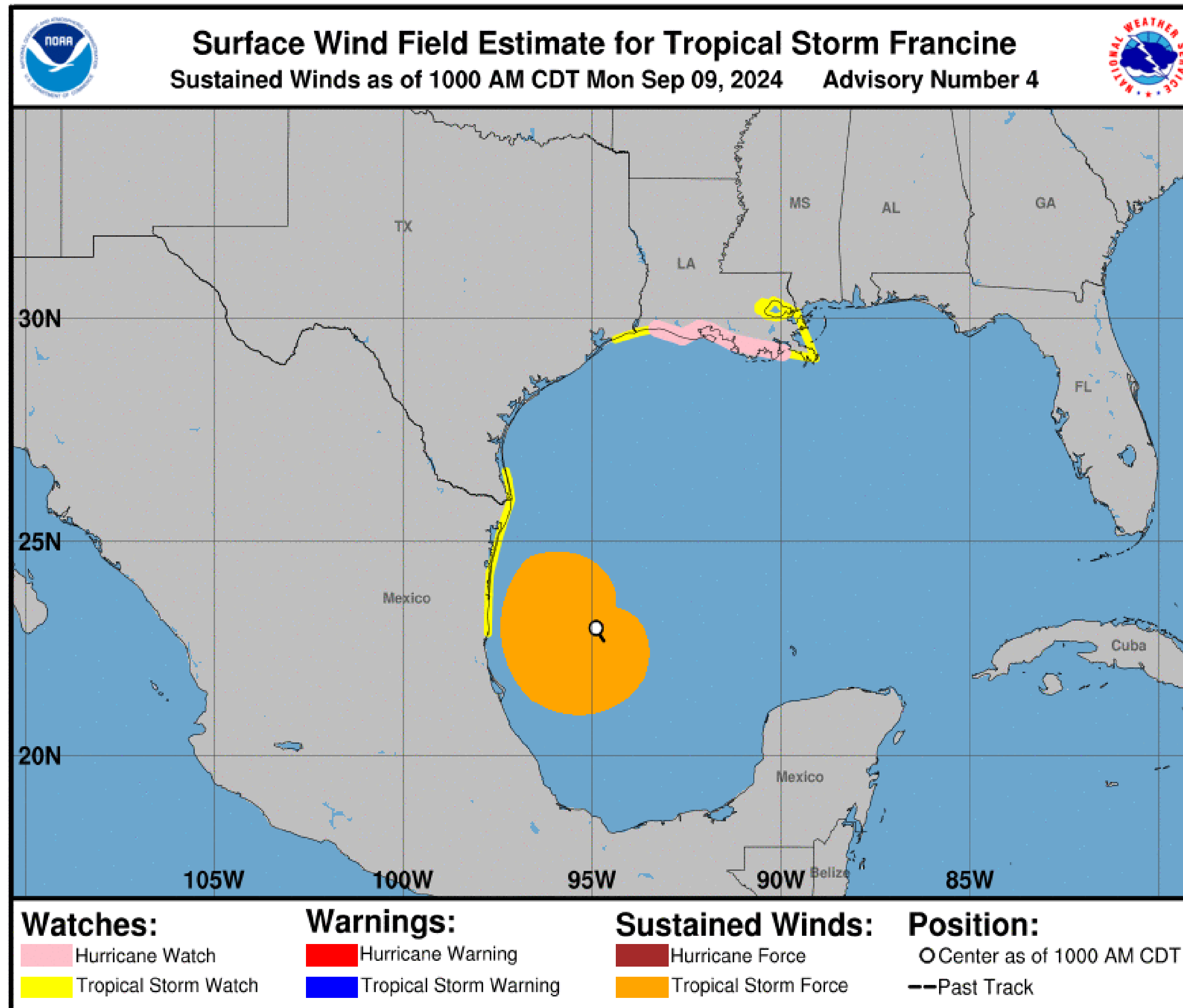


# Situation Overview

## Tropical Storm Francine



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



**...DISTURBANCE BECOMES TROPICAL  
STORM FRANCINE...  
...EXPECTED TO INTENSIFY WITH STORM  
SURGE AND HURRICANE WATCHES ISSUED  
FOR THE LOUISIANA COAST...**

**SUMMARY OF 1000 AM CDT...1500 UTC...**

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**LOCATION...23.0N 94.9W  
ABOUT 215 NM SE OF MOUTH OF THE RIO  
GRANDE  
ABOUT 420 NM SSW OF CAMERON  
LOUISIANA  
MAXIMUM SUSTAINED WINDS...45 KT  
PRESENT MOVEMENT...NNW OR 340  
DEGREES AT 4 KT  
MINIMUM CENTRAL PRESSURE...1002 MB**

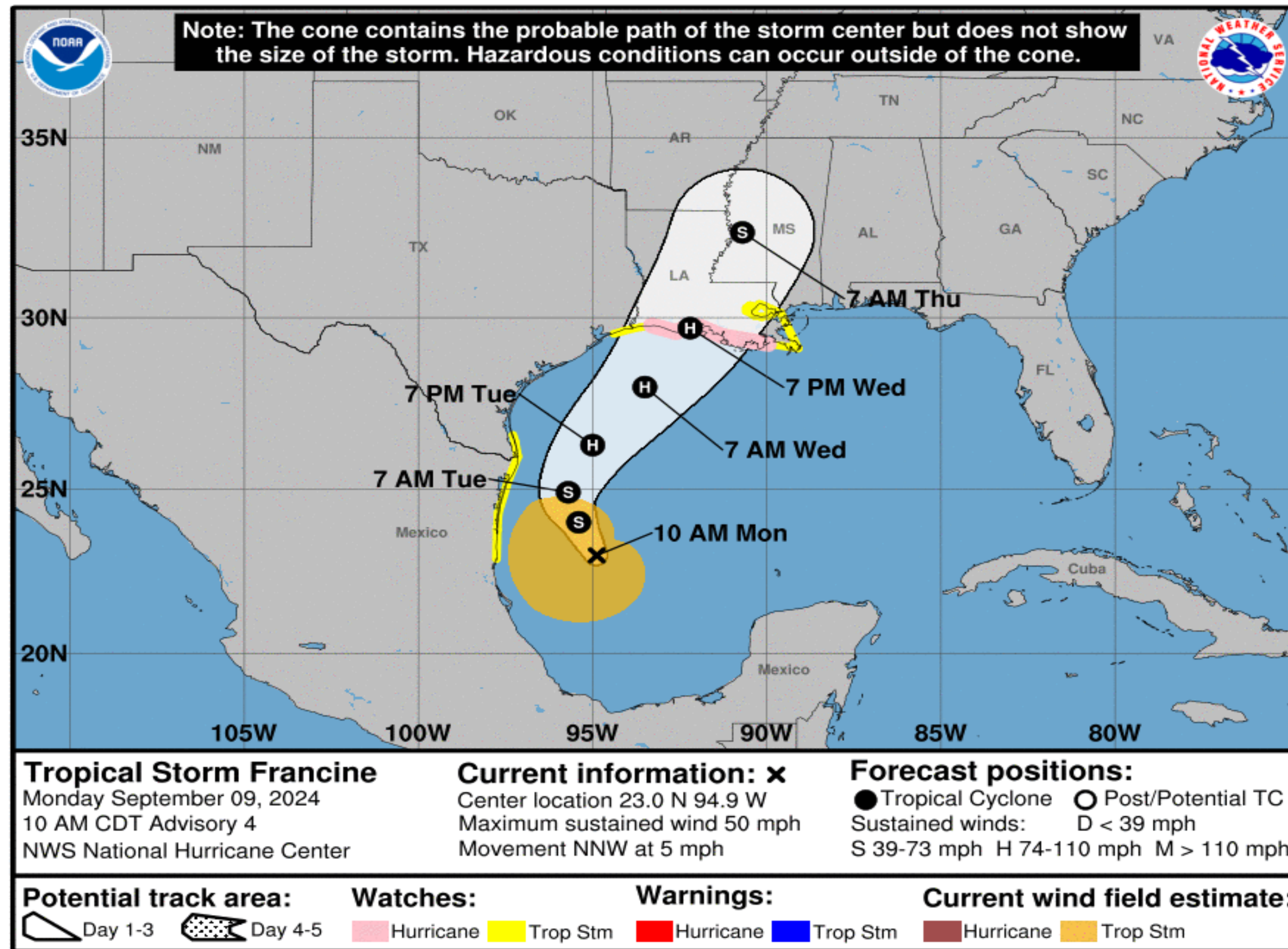


# Forecast Information

## Tropical Storm Francine



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- A slow north-northwestward motion is expected for the remainder of the day, followed by a faster motion to the northeast beginning on Tuesday.
- Francine is expected to made landfall somewhere along the Louisiana or the Upper Texas coastline on Wednesday or Wednesday night.
- Gradual intensification is expected over the next day and Francine is expected to become a hurricane before it reaches the northwestern U.S. Gulf Coast on Wednesday.

- 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.

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

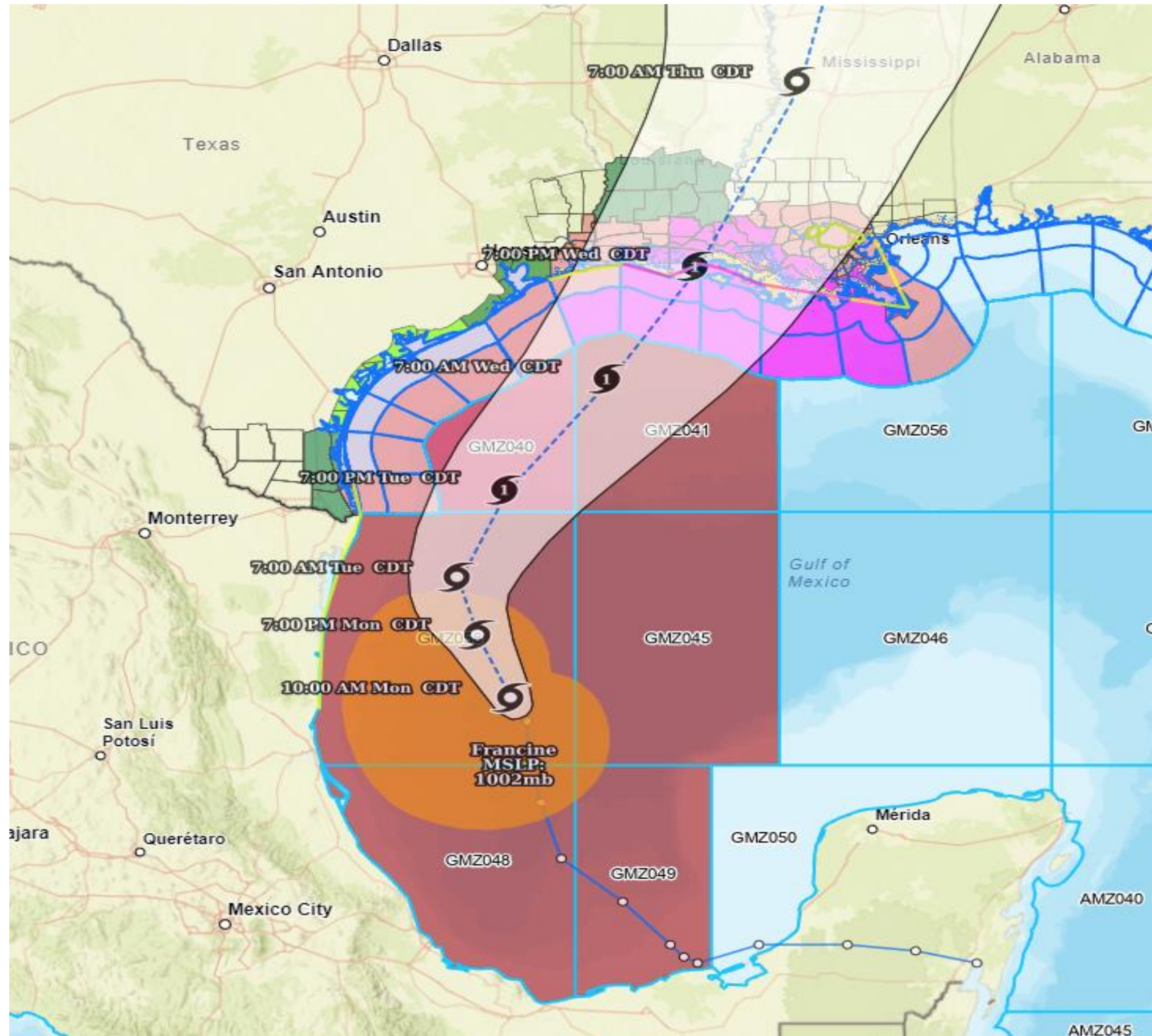


# Hazards Map

## Tropical Storm Francine



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# T.S. Wind Speed Probabilities

## Tropical Storm Francine



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- **BROWNSVILLE TX 51%**
- **CORPUS CHRISTI 14%**
- **PORT O CONNOR 41%**
- **MATAGORDA TX 45%**
- **HIGH ISLAND TX 46%**
- **FREEPORT TX 37%**
- **HOUSTON TX 23%**
- **GALVESTON TX 56%**
- **PORT ARTHUR TX 45%**
- **CAMERON LA 74%**
- **MORGAN CITY LA 57%**
- **BATON ROUGE LA 53%**
- **NEW ORLEANS LA 42 %**

-**Green** indicates probabilities have gone down since last briefing  
-**Red** indicates probabilities have gone up since last briefing  
-**Black** indicates probabilities remain the same

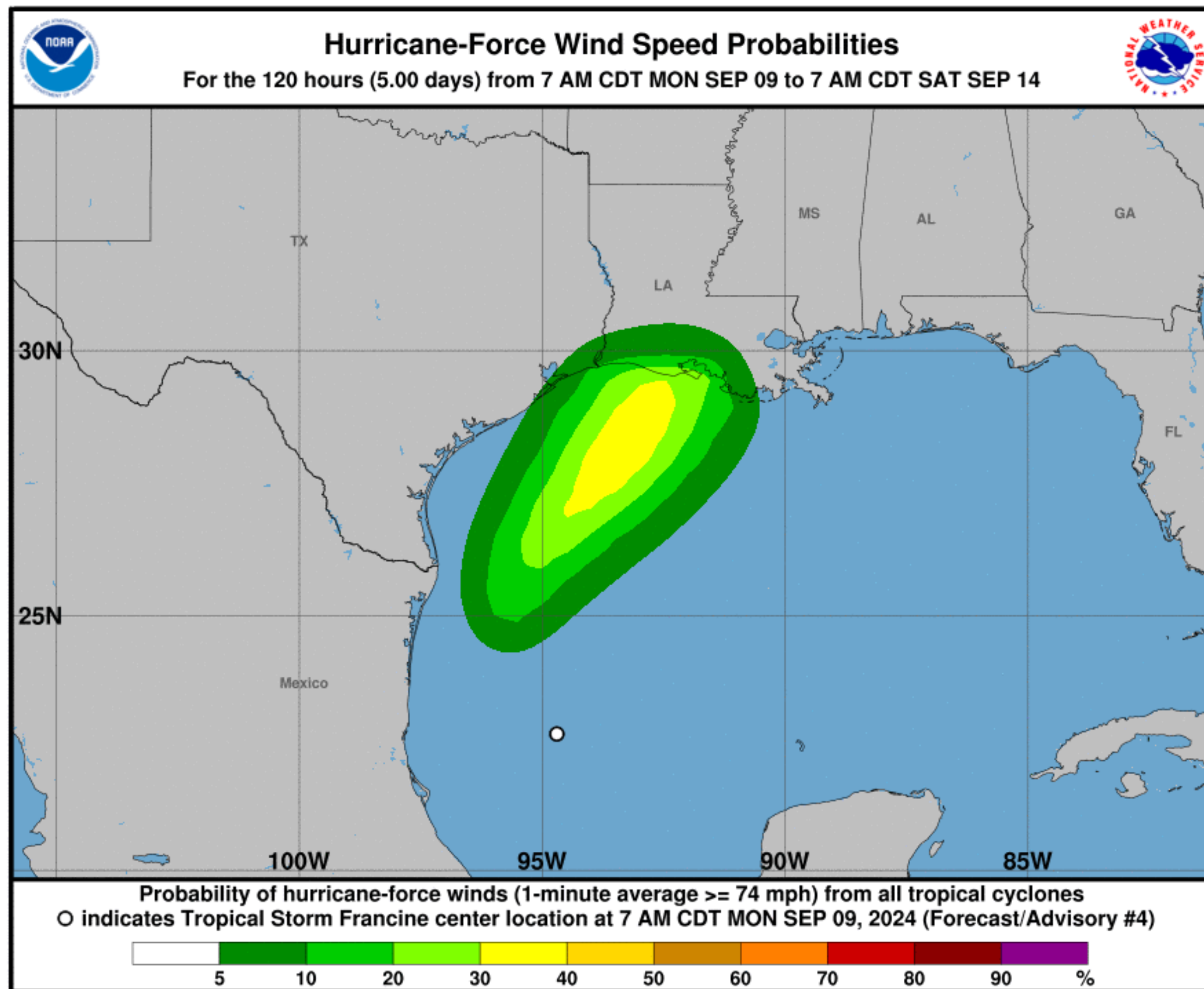
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color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

# Hurricane Wind Speed Probabilities

Tropical Storm Francine



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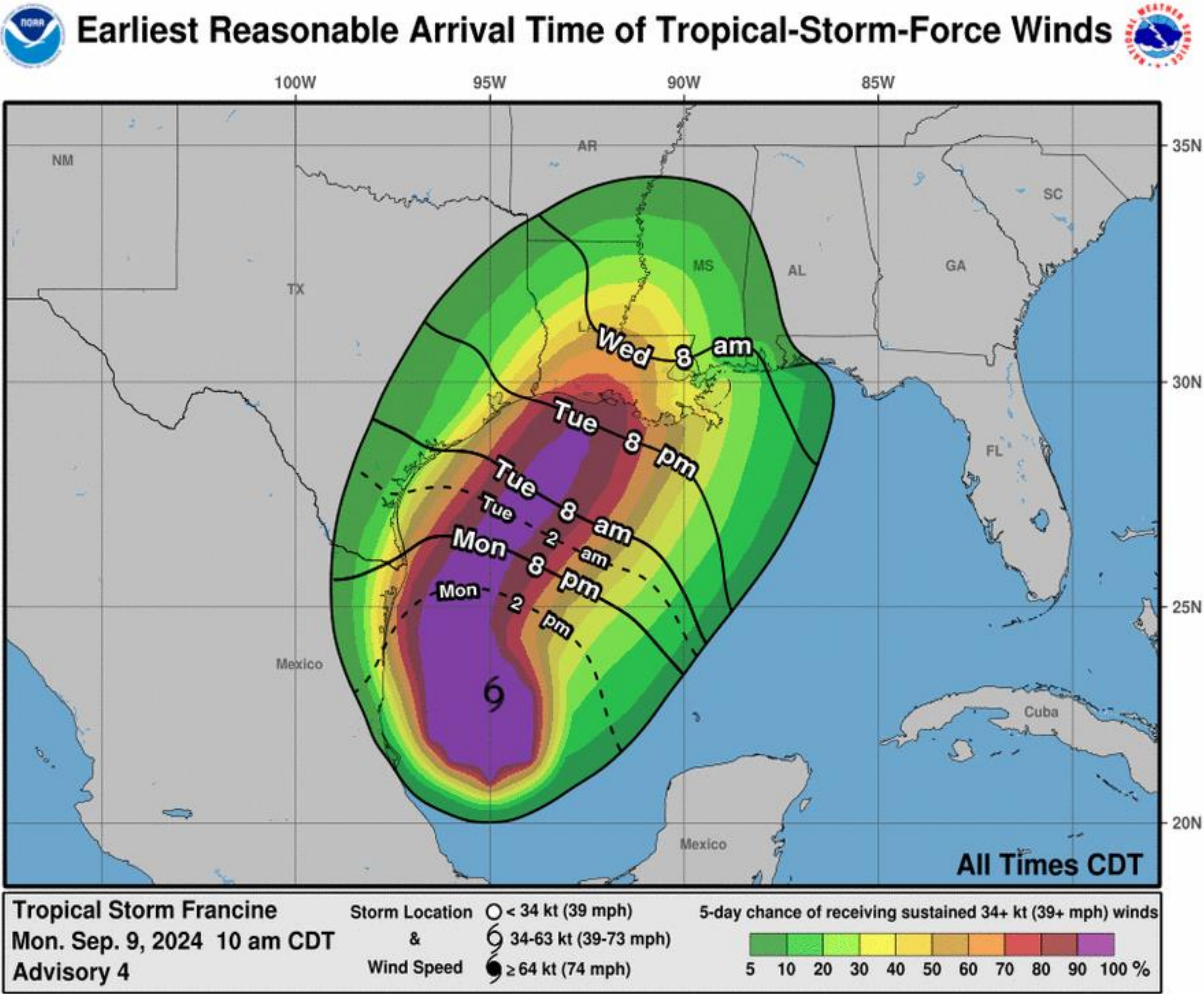
- PORT O CONNOR 1%
- MATAGORDA TX 2%
- HIGH ISLAND TX 3%
- GALVESTON TX 7%
- CAMERON LA 17%
- MORGAN CITY LA 4%
- BATON ROUGE LA 3%
- NEW ORLEANS LA 12 %

- 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.





Tropical Storm Francine



- Lower Texas Coast - Monday night.
- Middle Texas Coast - Tuesday Morning.
- Upper Texas Coast and Louisiana Coast - Tuesday 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.

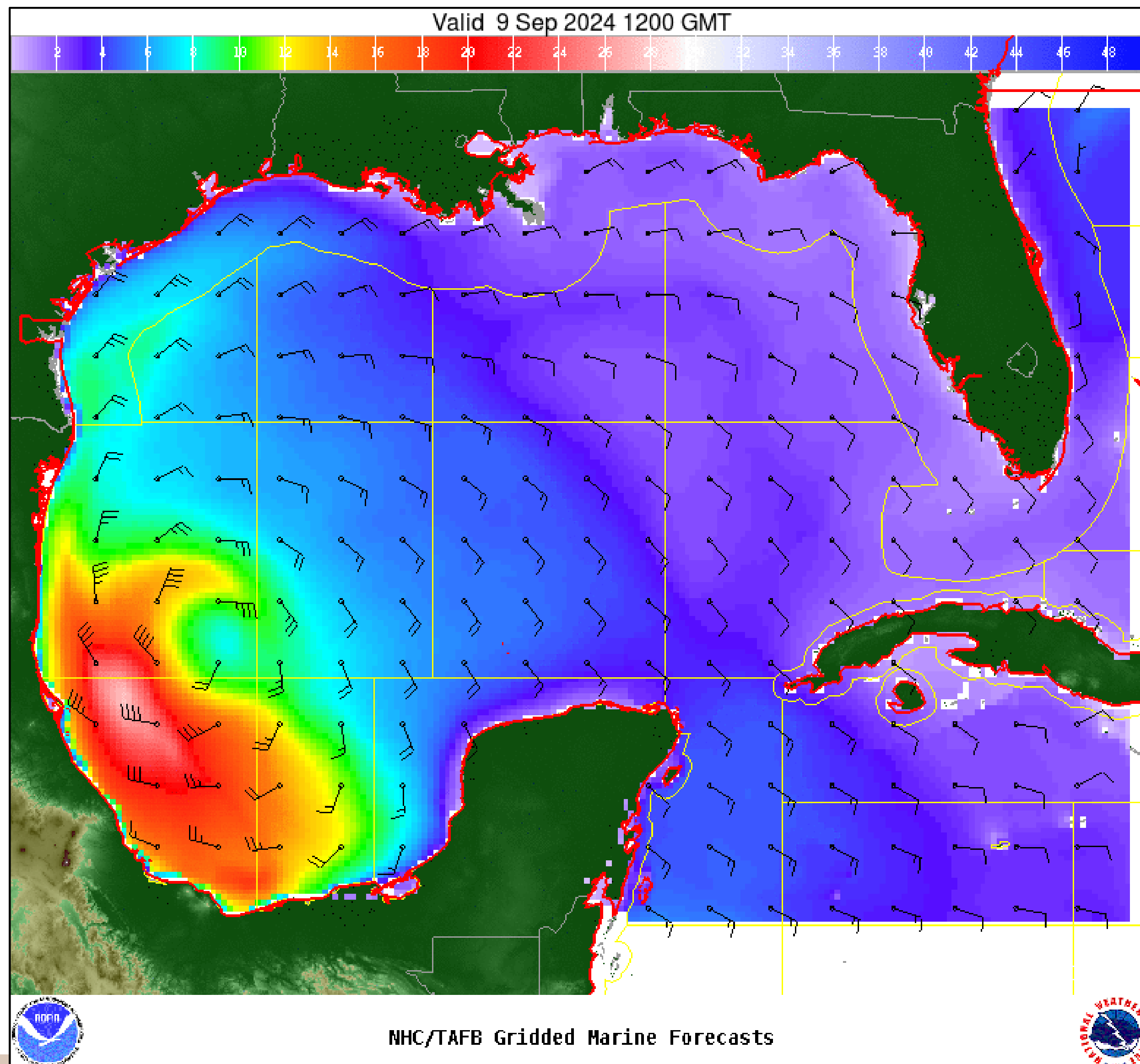


# Wind And Waves

## Tropical Storm Francine



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NWS National Hurricane Center



### Current Conditions

Monday morning, September 9

Peak Winds: 45 kt

Peak Seas: 18 ft

- Wave heights are in feet



Significant Wave Height (ft)

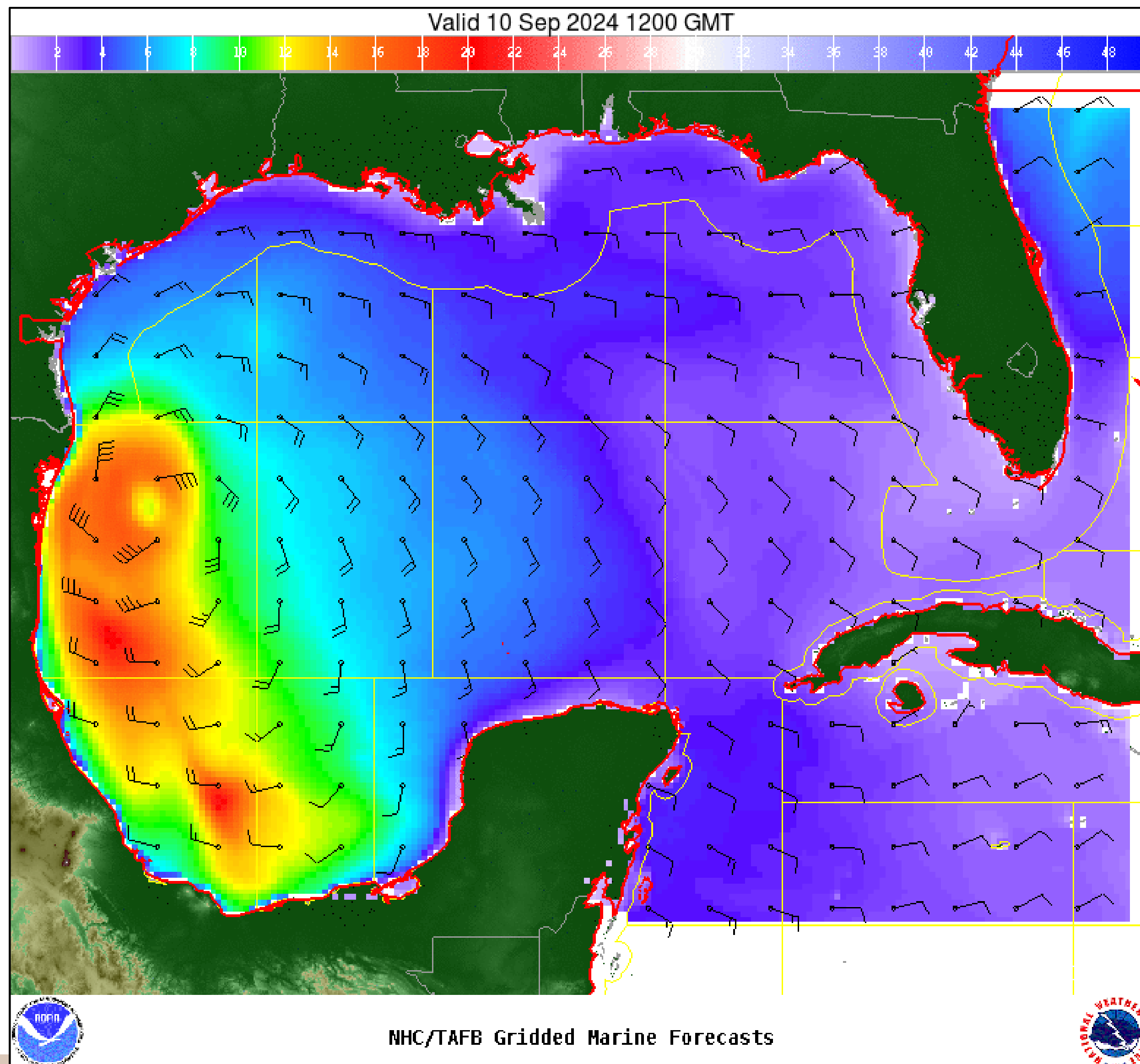


# Wind And Waves

Tropical Storm Francine



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24 Hour Forecast

Tuesday 7 AM CDT, September 10

Peak Winds: 55 kt

Peak Seas: 20 ft

■ Wave heights are in feet



Significant Wave Height (ft)

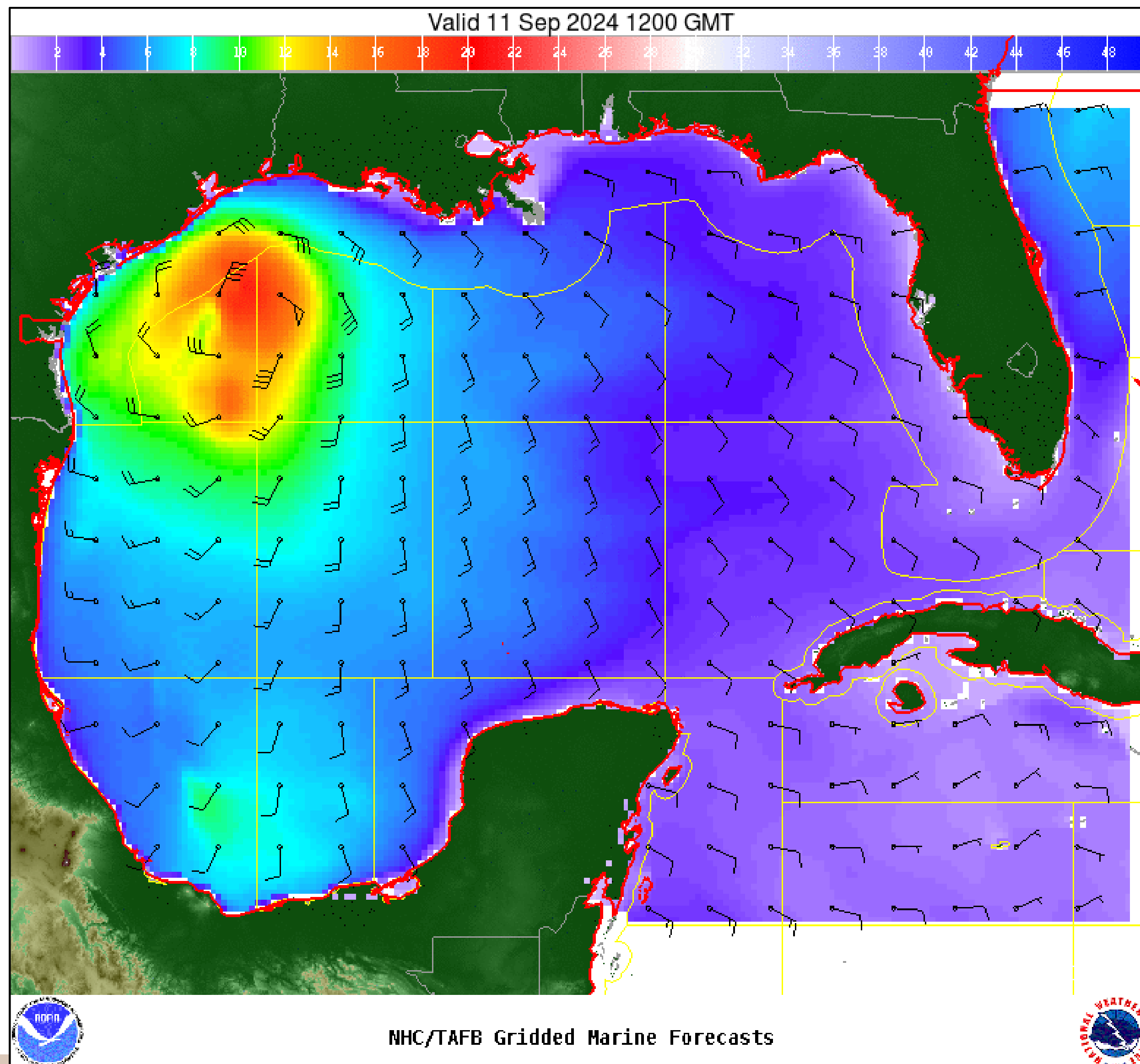


# Wind And Waves

## Tropical Storm Francine



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### 48 Hour Forecast

Wednesday 7 AM CDT, September 11

Peak Winds: 75 kt

Peak Seas: 28 ft

- Wave heights are in feet



Significant Wave Height (ft)

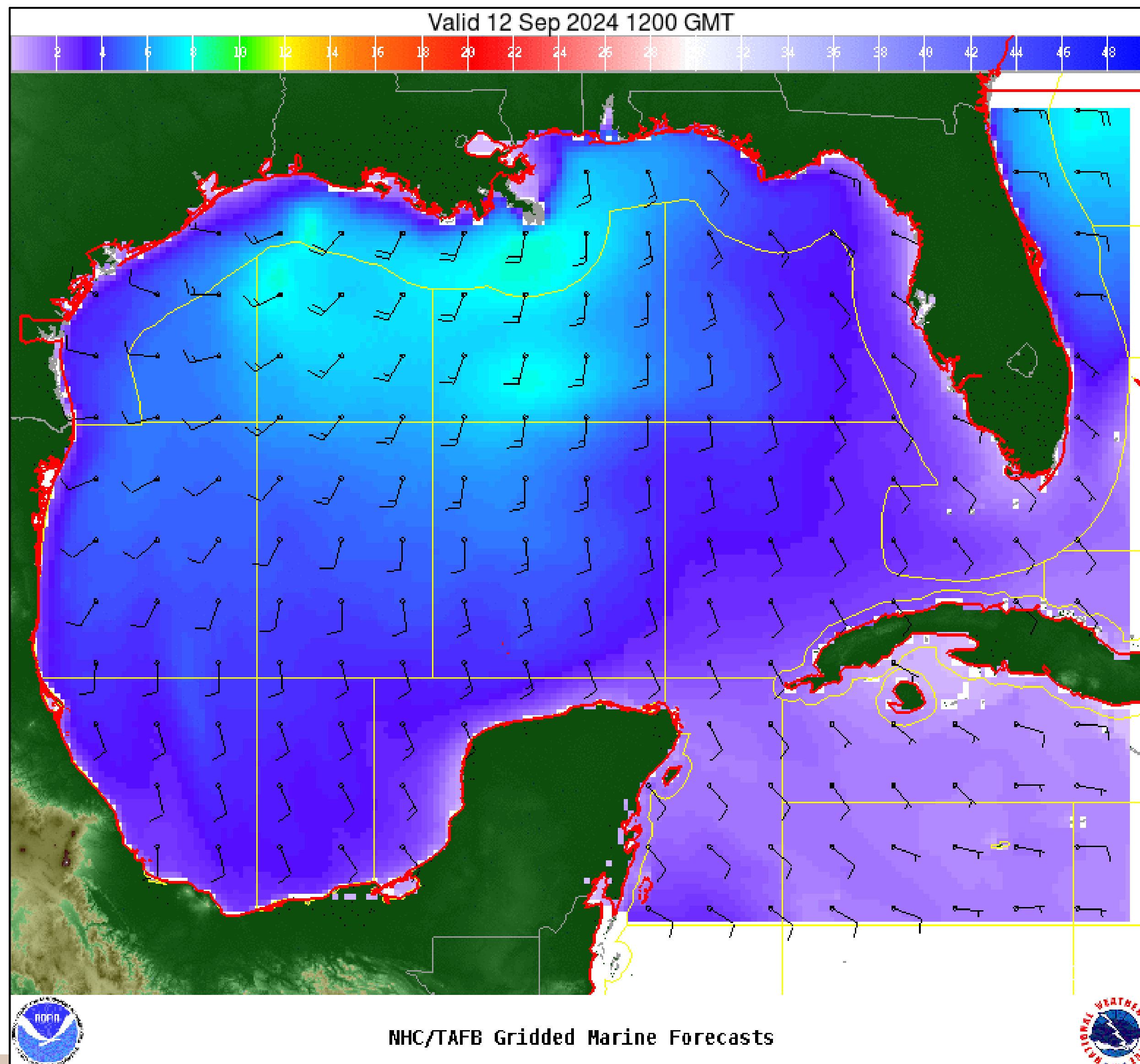


# Wind And Waves

## Tropical Storm Francine



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## 72 Hour Forecast

Thursday 7 AM CDT, September 12

Peak Winds: 20 kt

Peak Seas: 8 ft

- Wave heights are in feet



Significant Wave Height (ft)



# Potential Peak Storm Surge / Watches and Warnings



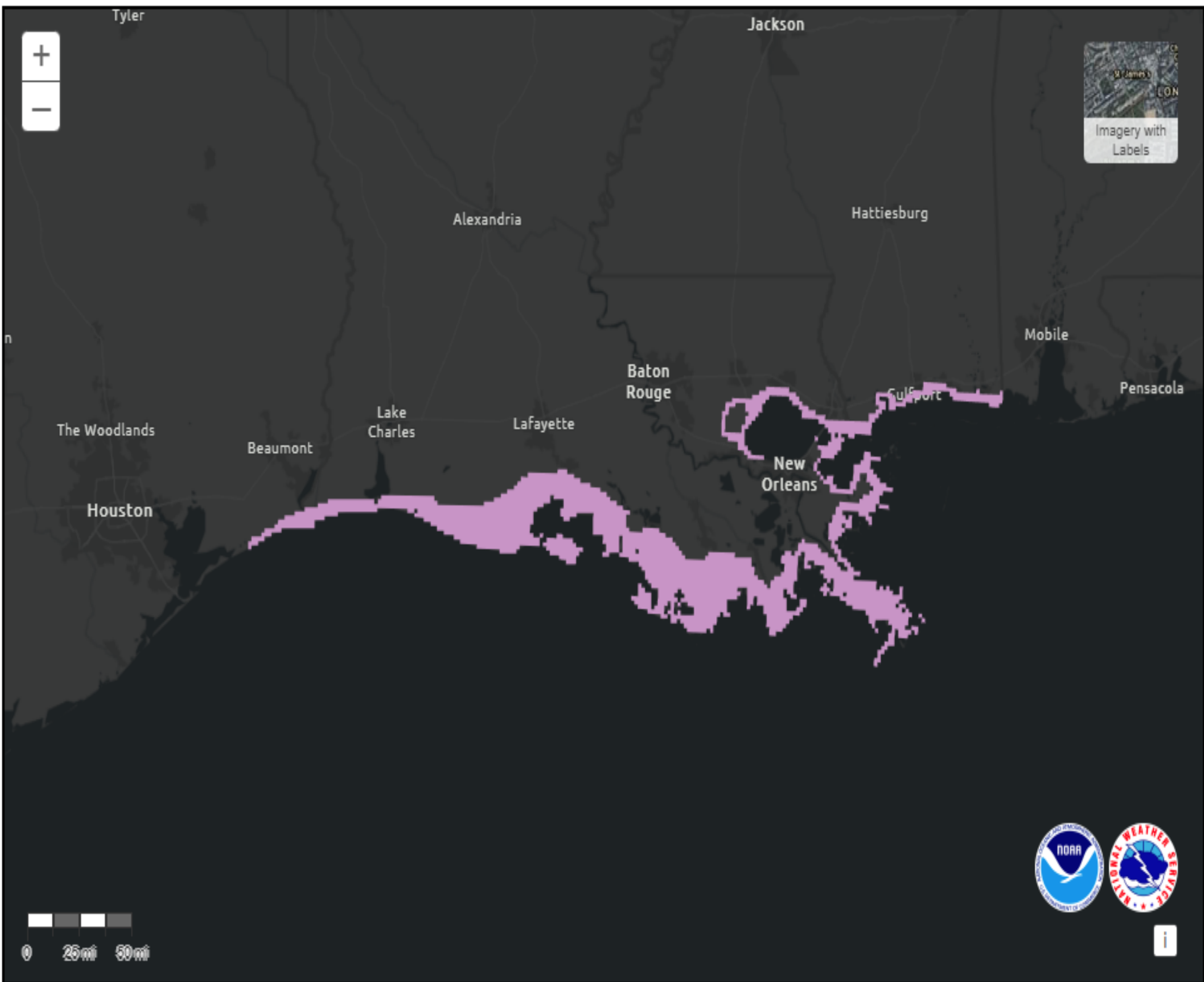
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NWS National Hurricane Center

## Tropical Storm Francine

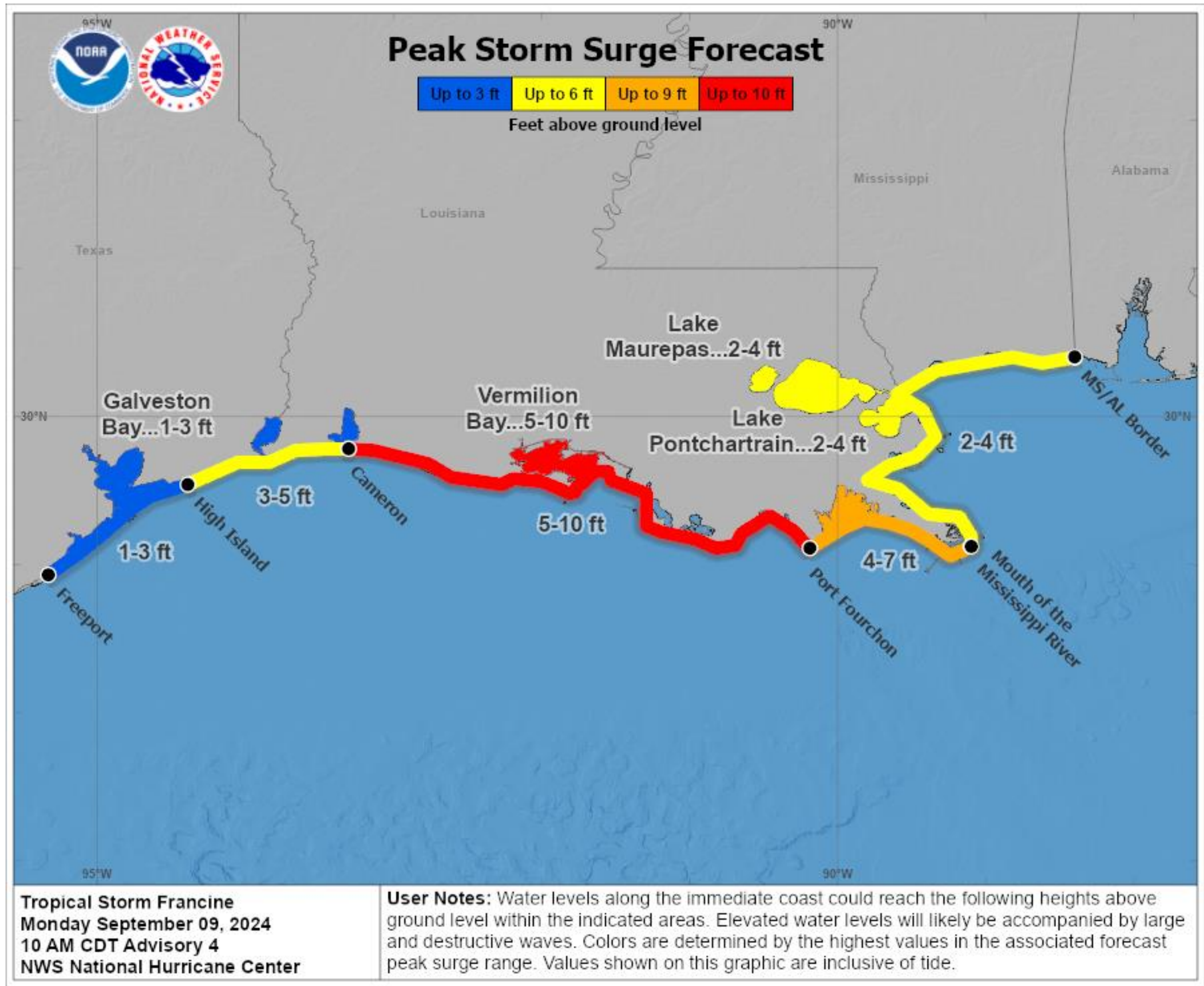


### Tropical Storm Francine

Advisory 4 — Issued: 10:00 AM CDT Mon Sep 9



Storm Surge Warning  
Storm Surge Watch



Tropical Storm Francine  
Monday September 09, 2024  
10 AM CDT Advisory 4  
NWS National Hurricane Center

**User Notes:** Water levels along the immediate coast could reach the following heights above ground level within the indicated areas. Elevated water levels will likely be accompanied by large and destructive waves. Colors are determined by the highest values in the associated forecast peak surge range. Values shown on this graphic are inclusive of tide.



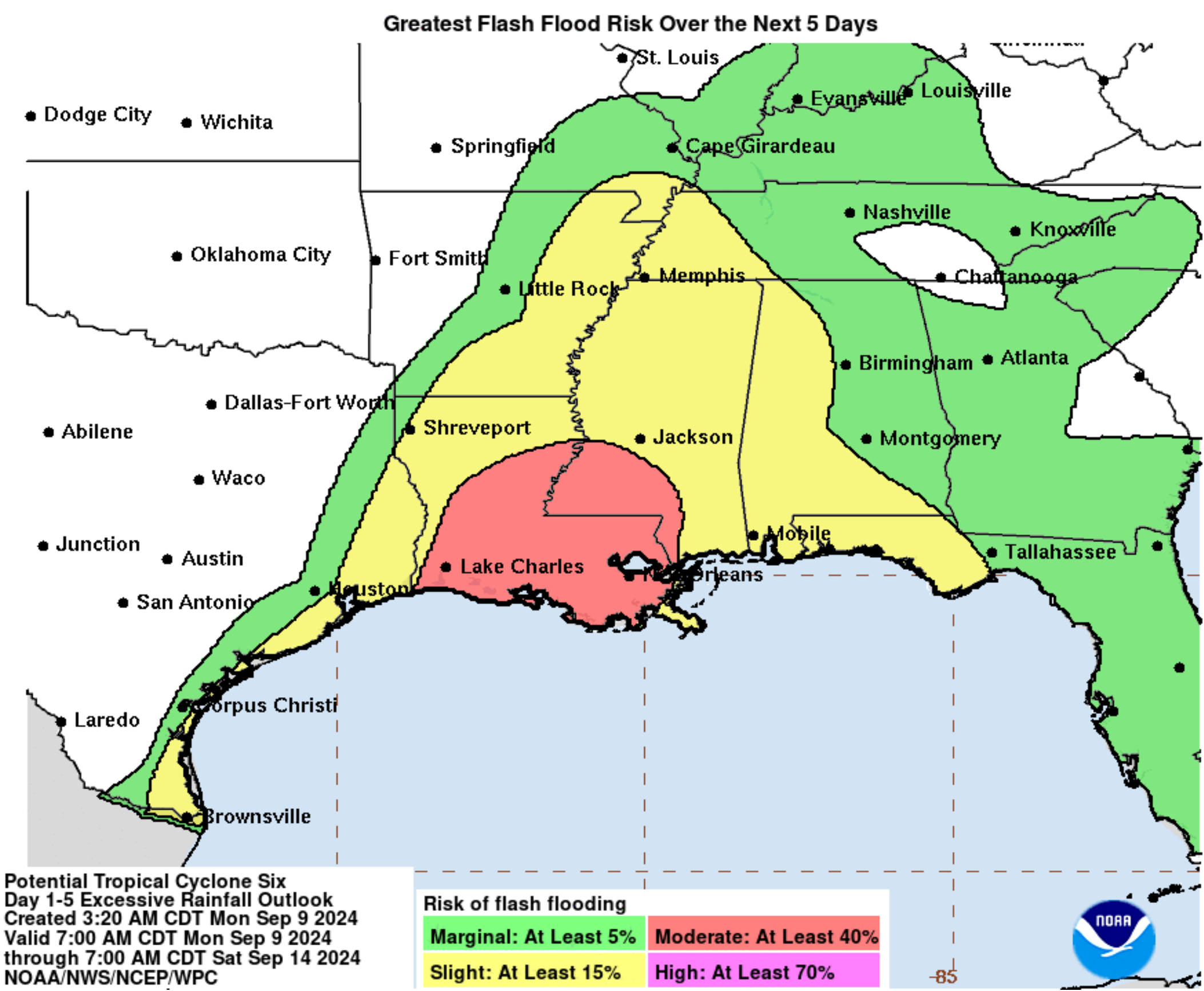
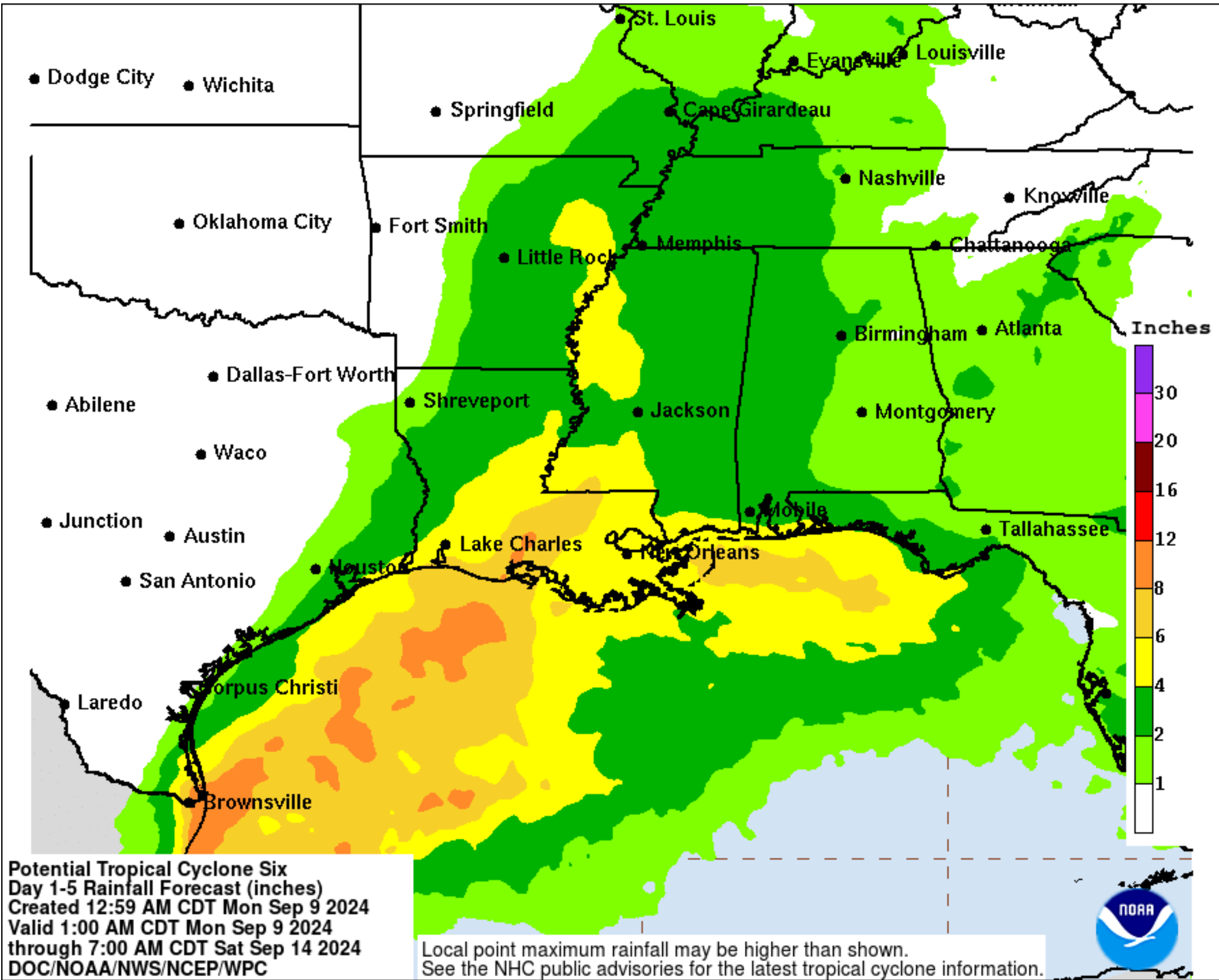
# Expected Storm Total Rainfall and Chance of Rainfall Flooding

Tropical Storm Francine

Images from NWS Weather Prediction Center



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



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

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

Refer to map legend for Valid Time



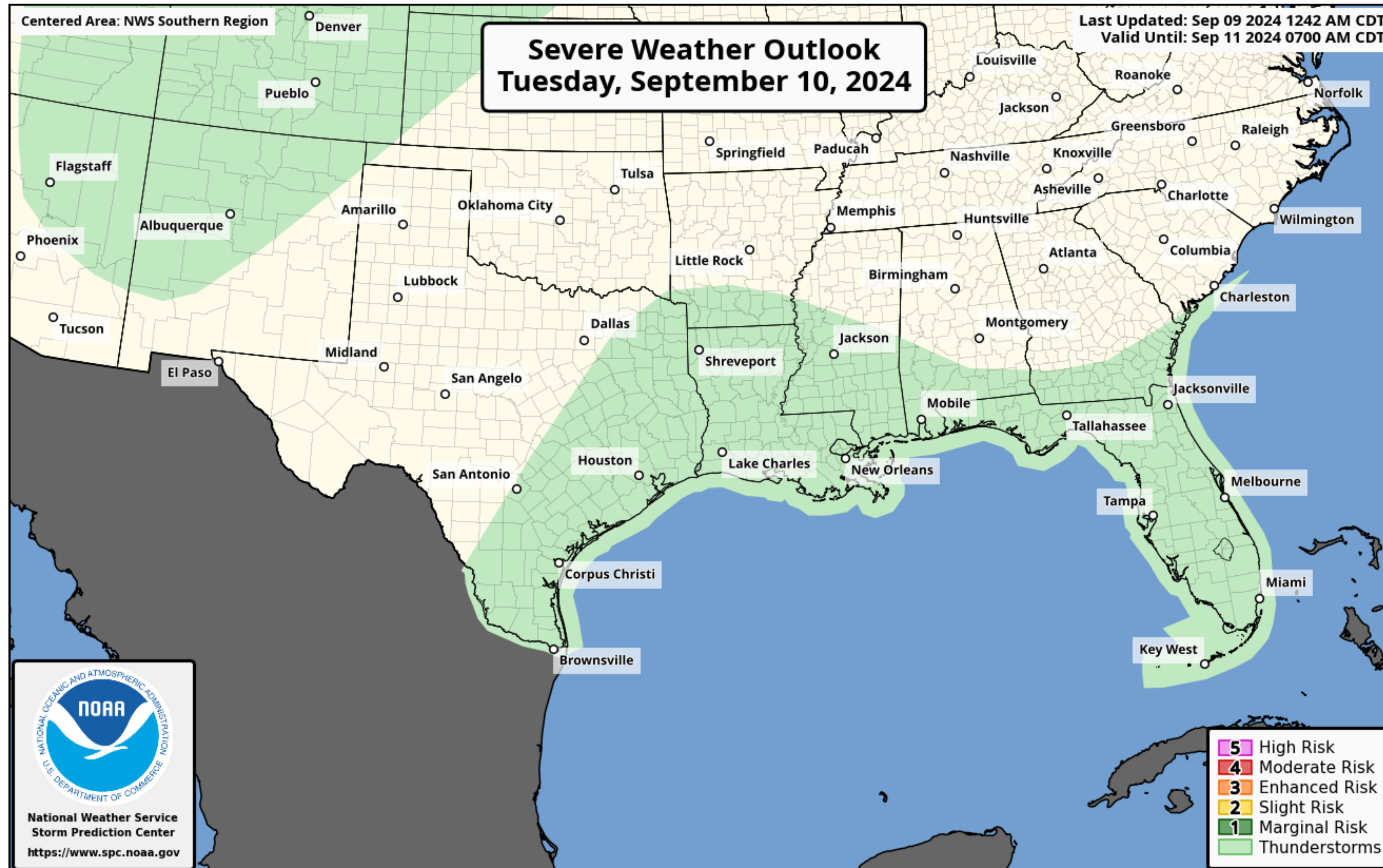
# Tornado Outlook – Day 2

Tropical Storm Francine

Image from NWS Storm Prediction Center



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NWS National Hurricane Center





# Key Messages

## Tropical Storm Francine



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NWS National Hurricane Center



### Key Messages for Tropical Storm Francine

Advisory 4: 10:00 AM CDT Mon Sep 09, 2024



1. Francine is forecast to be a hurricane when it reaches the northwestern Gulf coast on Wednesday or Wednesday night and there is an increasing likelihood of life-threatening storm surge inundation for portions of the Upper Texas and Louisiana coastlines where a Storm Surge Watch is in effect. Residents in the watch area should follow advice given by local officials.

2. There is an increasing risk of damaging hurricane-force winds in portions of southern Louisiana beginning Wednesday, where a Hurricane Watch is now in effect.

3. Francine is expected to bring heavy rainfall and the risk of considerable flash flooding along the coast of far northeast Mexico, portions of the southernmost Texas coast, the Upper Texas Coast, southern Louisiana, and southern Mississippi into Thursday morning. A risk of flash and urban flooding exists across portions of the Mid-South from Wednesday into Friday morning.



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

### IMPACTS FOR **D8**

**Winds/US Coast – High**

**Winds/SRR – High**

**Waves/US Coastal – Extreme**

**Waves/SRR – Extreme**

through next 5 days

**US Storm Surge – Extreme**

**US Rainfall/Flash Flooding – High**

**US Tornadoes – Low**

### Marine Key Messages:

- Francine is expected to become a hurricane before landfall on Wednesday.
- Seas will likely peak to 28 ft Wednesday.
- Conditions will quickly improve after landfall Wednesday night.



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



# TROPICAL STORM FRANCINE BRIEFING

This briefing was prepared by:

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*The Next Briefing Will Be:*

*Tuesday at 11 AM CDT*

**TIME of NEXT NHC Advisory:**

**21 UTC: 4 PM CDT**

*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)