

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 – Medium

TROPICAL STORM FRANCINE BRIEFING



11:00 AM CDT
Tuesday, September 10, 2024

Prepared by:

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*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



Changes Since The Last Briefing

Tropical Storm Francine



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NWS National Hurricane Center

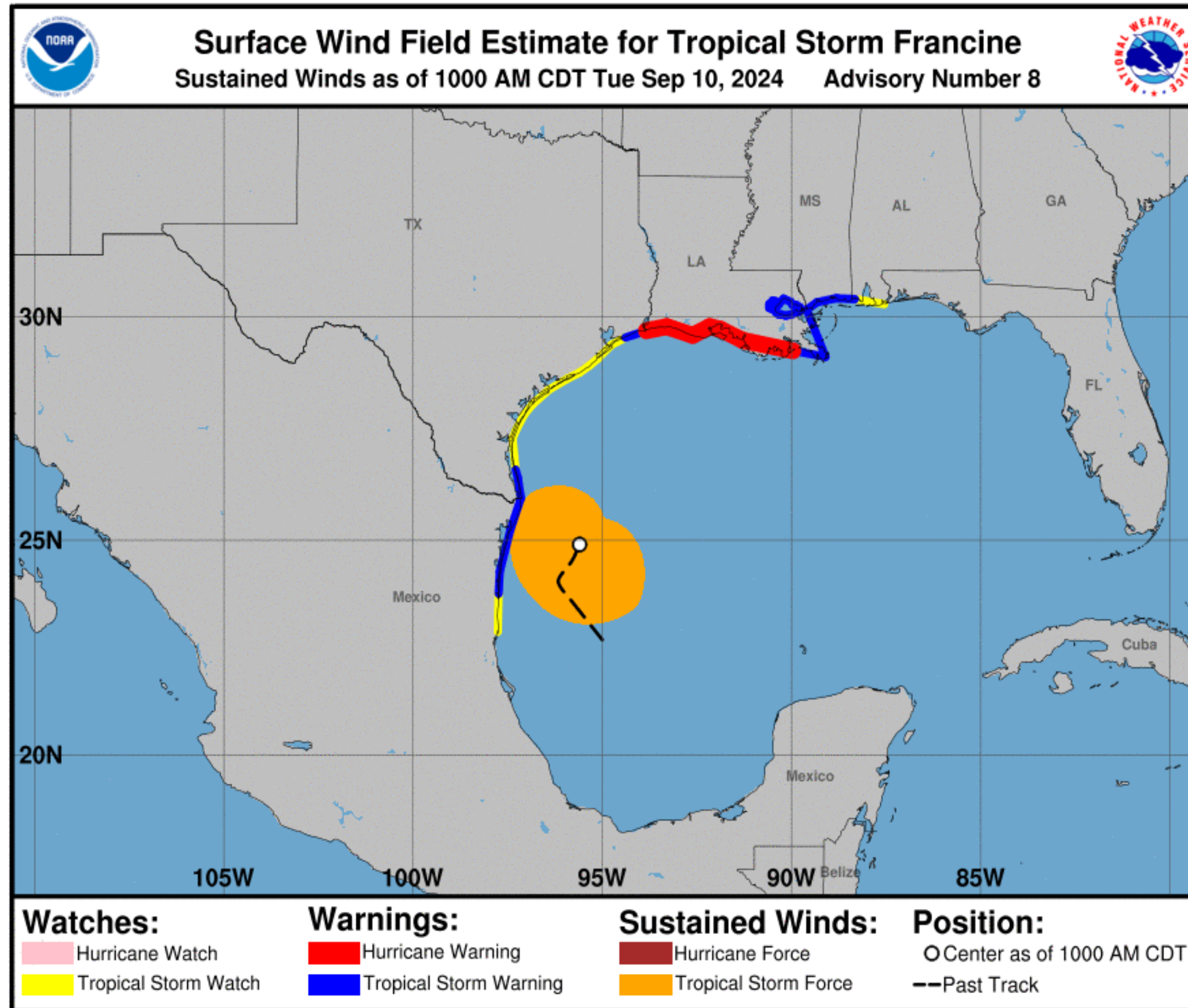
- Tropical Storm watches and warnings have been extended to cover the entire Texas coast and as far as east to the Alabama/Florida border.
- Confidence has increased that Francine is going to be a Hurricane Category 1 or 2 at the time of landfall Wednesday late afternoon or early evening over the Louisiana coast.

Situation Overview

Tropical Storm Francine



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**...FRANCINE NOW MOVING NORTH-
NORTHEASTWARD ACROSS THE
WESTERN GULF OF MEXICO...
...NEW TROPICAL STORM WARNINGS
AND STORM SURGE WARNINGS ISSUED...**

SUMMARY OF 1000 AM CDT

LOCATION...24.9N 95.6W
ABOUT 105 NM... SE OF MOUTH OF THE RIO
GRANDE
ABOUT 370 NM... SW OF MORGAN CITY
LOUISIANA
MAXIMUM SUSTAINED WINDS...55 KT
PRESENT MOVEMENT...NNE AT 7 KT
MINIMUM CENTRAL PRESSURE...988 MB

SIZE

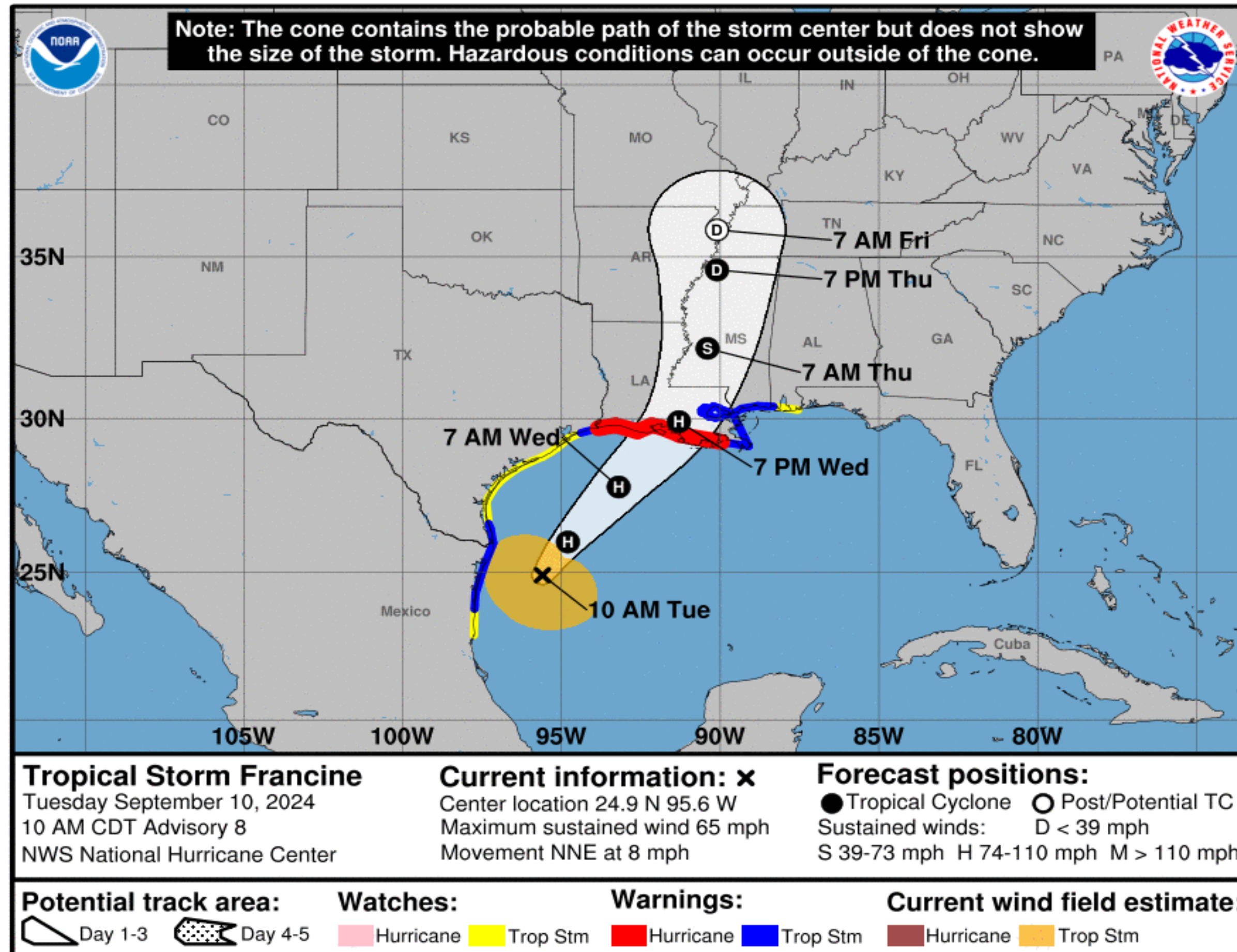
34 KT..... 50NE 120SE 100SW 100NW.
12 FT SEAS..120NE 120SE 180SW 150NW.
PEAK SEAS 20 FT

Forecast Information

Tropical Storm Francine



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

- A turn to the northeast with an increase in forward speed is expected later today or tonight.
- Francine is anticipated to be just offshore of the coasts of northeastern Mexico and southern Texas through this afternoon, and then move across the northwestern Gulf of Mexico, making landfall in Louisiana late afternoon or early evening Wednesday.
- Strengthening is expected through Wednesday morning, and Francine will likely become a hurricane later today or tonight and make landfall as a Category 1 or 2 system.
- 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

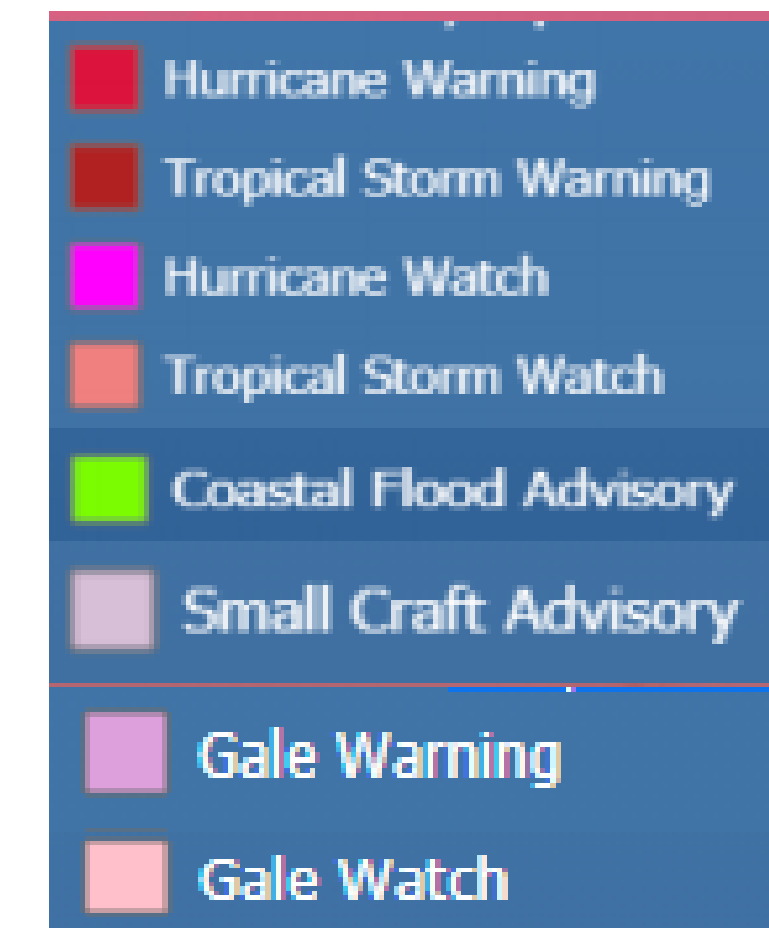
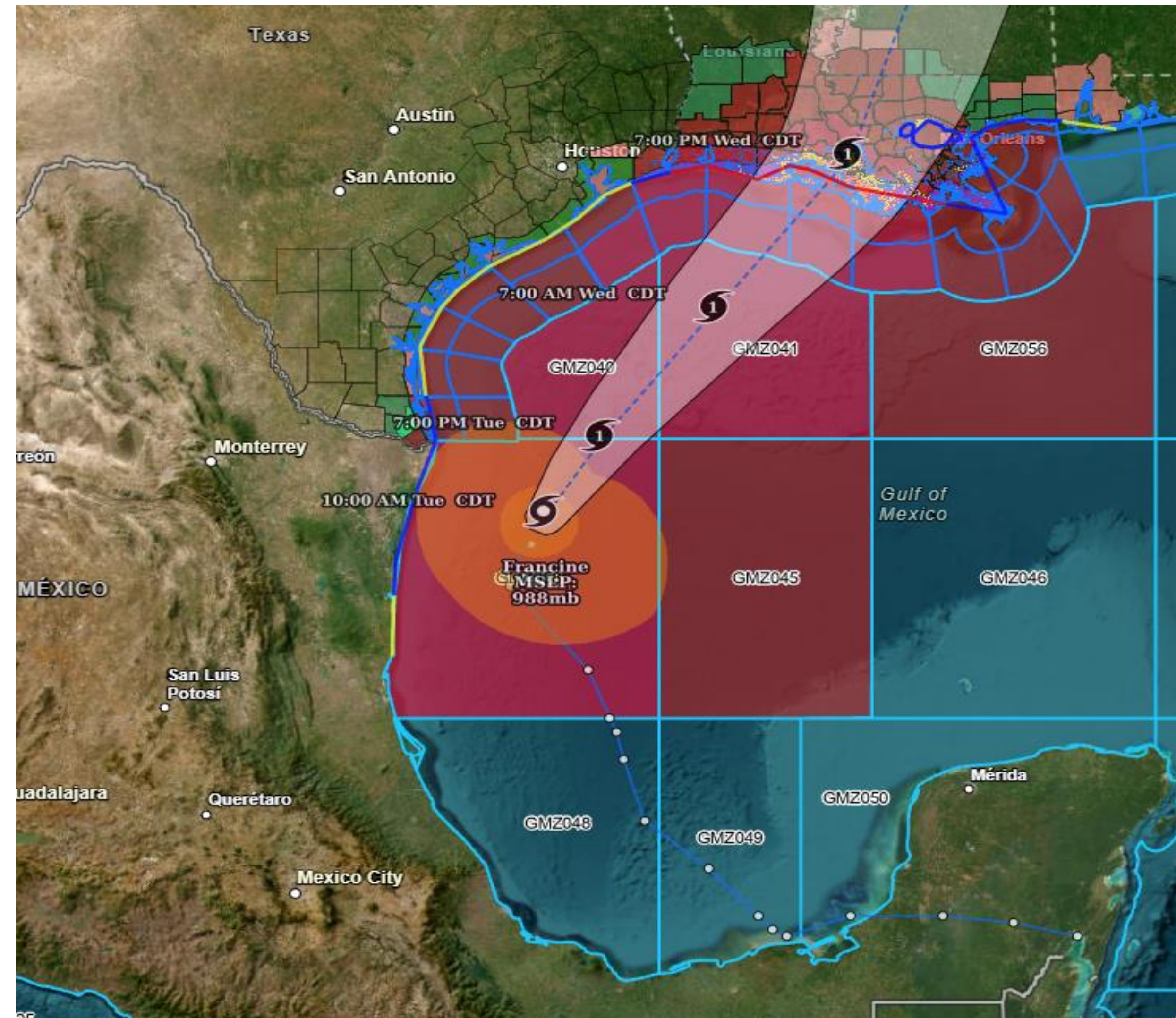
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Francine



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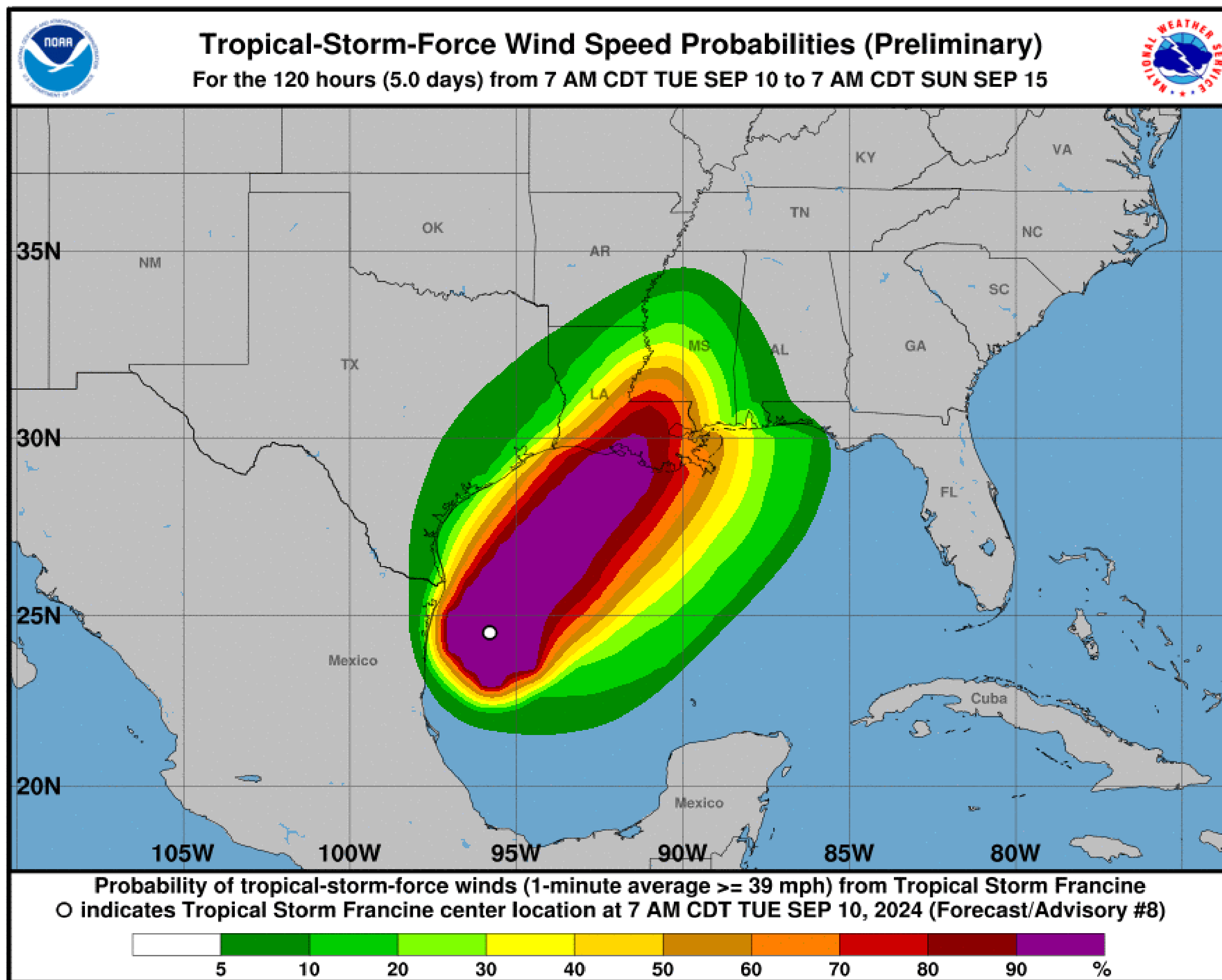


T.S. Wind Speed Probabilities

Tropical Storm Francine



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- BROWNSVILLE TX 7%
- CORPUS CHRISTI 6%
- PORT O CONNOR 20%
- MATAGORDA TX 24%
- HIGH ISLAND TX 28%
- FREEPORT TX 16%
- HOUSTON TX 10%
- GALVESTON TX 43%
- PORT ARTHUR TX 27%
- CAMERON LA 75%
- LAKE CHARLES 46%
- LAFAYETTE LA 81%
- MORGAN CITY LA 90%
- BATON ROUGE LA 85%
- NEW ORLEANS LA 76%
- GULFPORT MS 38%
- MOBILE AL 17%

-**Green** indicates probabilities have gone down since last briefing

-**Red** indicates probabilities have gone up since last briefing

-**Black** indicates probabilities remain the same

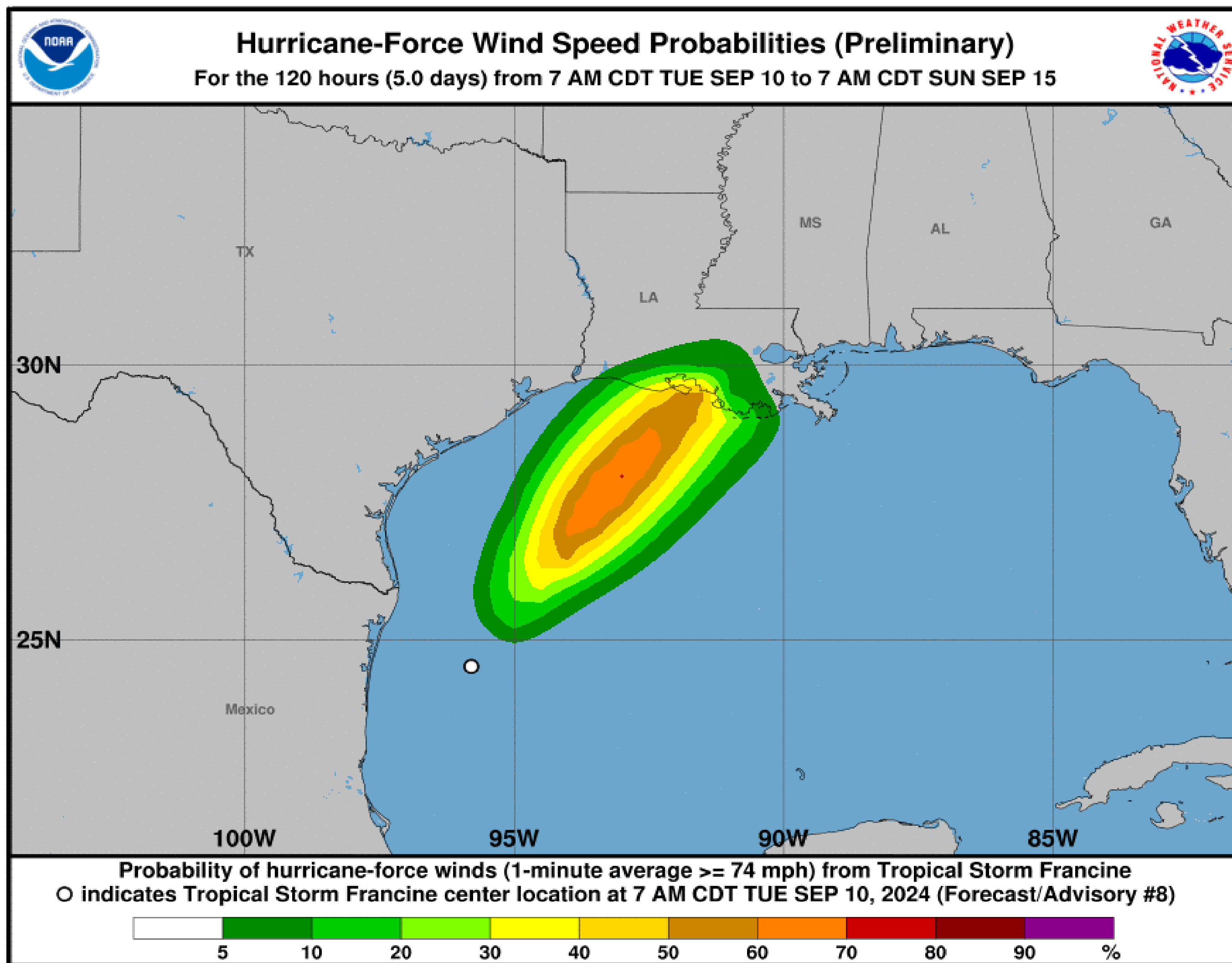
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color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

Hurricane Wind Speed Probabilities

Tropical Storm Francine



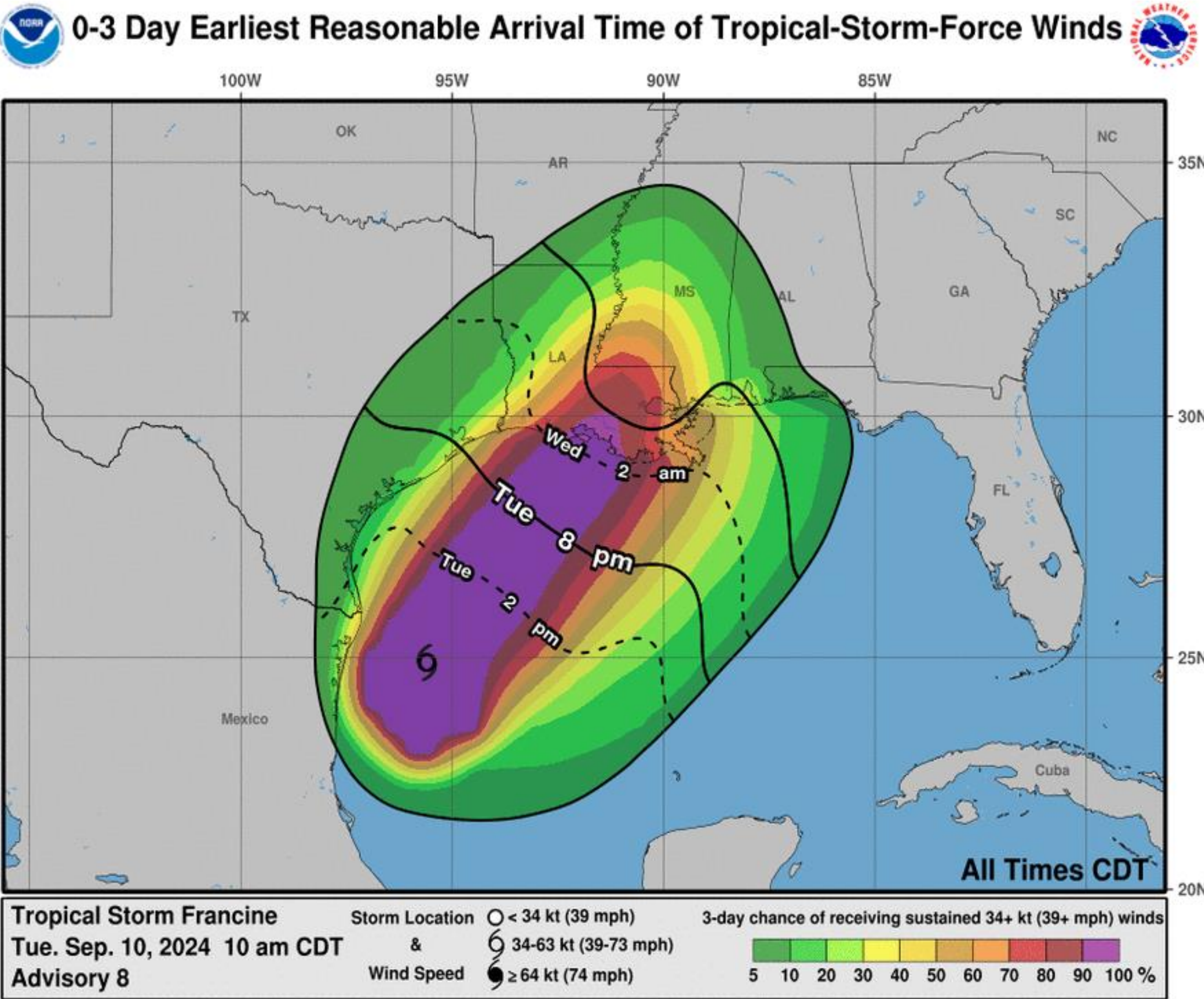
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- CAMERON LA 8%
 - LAFAYETTE LA 4%
 - MORGAN CITY LA 10%
 - BATON ROUGE LA 5%
 - NEW ORLEANS LA 4%
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
 - Clear or dark green 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



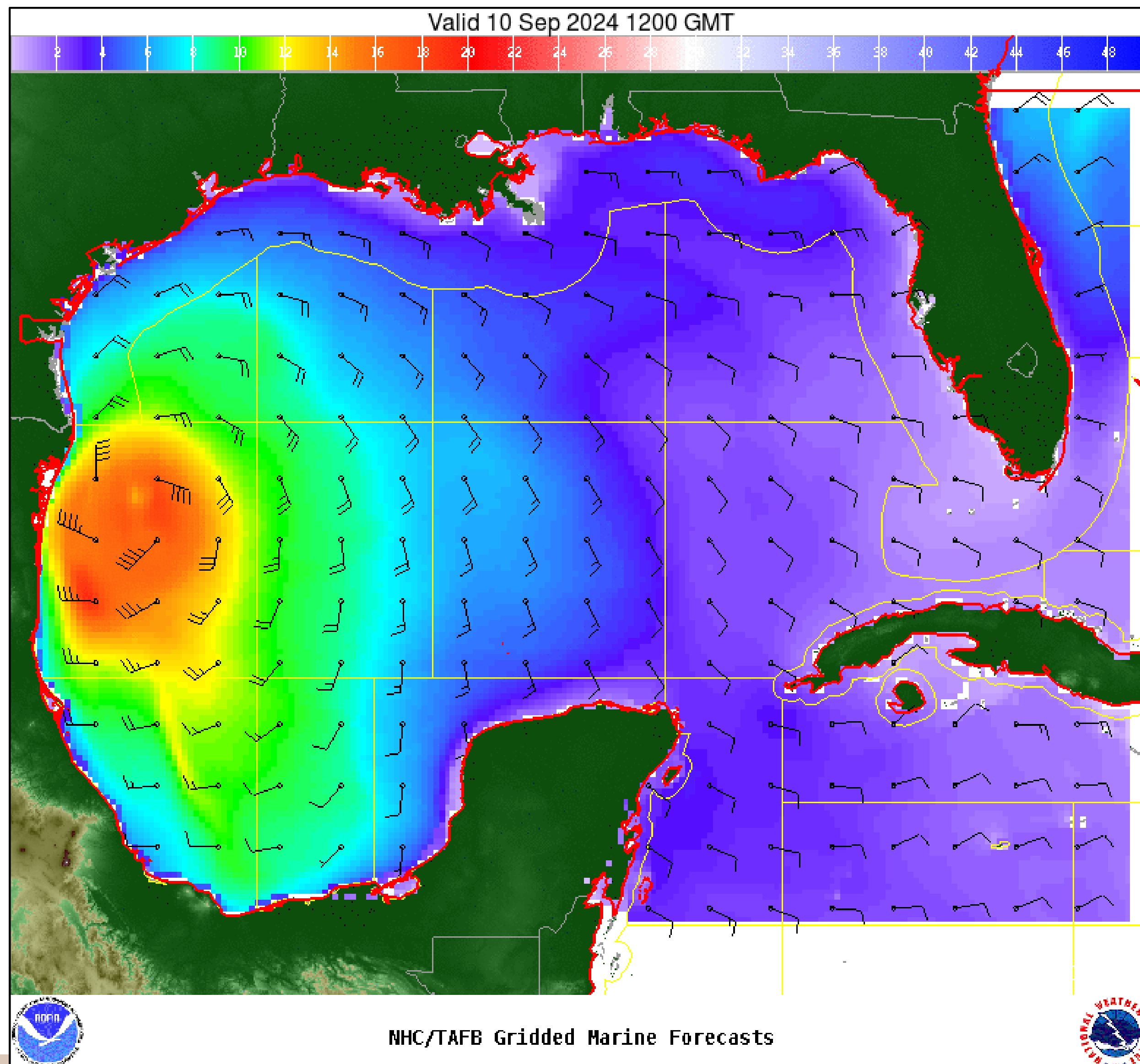
- Lower Texas Coast - Current
- Middle Texas Coast - Tuesday afternoon.
- Upper Texas Coast and Louisiana Coast - Tuesday late night/early Wednesday.
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or 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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Current Conditions

Tuesday, September 10 at 7:00 AM CDT

Peak Winds: 55 kt

Peak Seas: 20 ft

- Wave heights are in feet



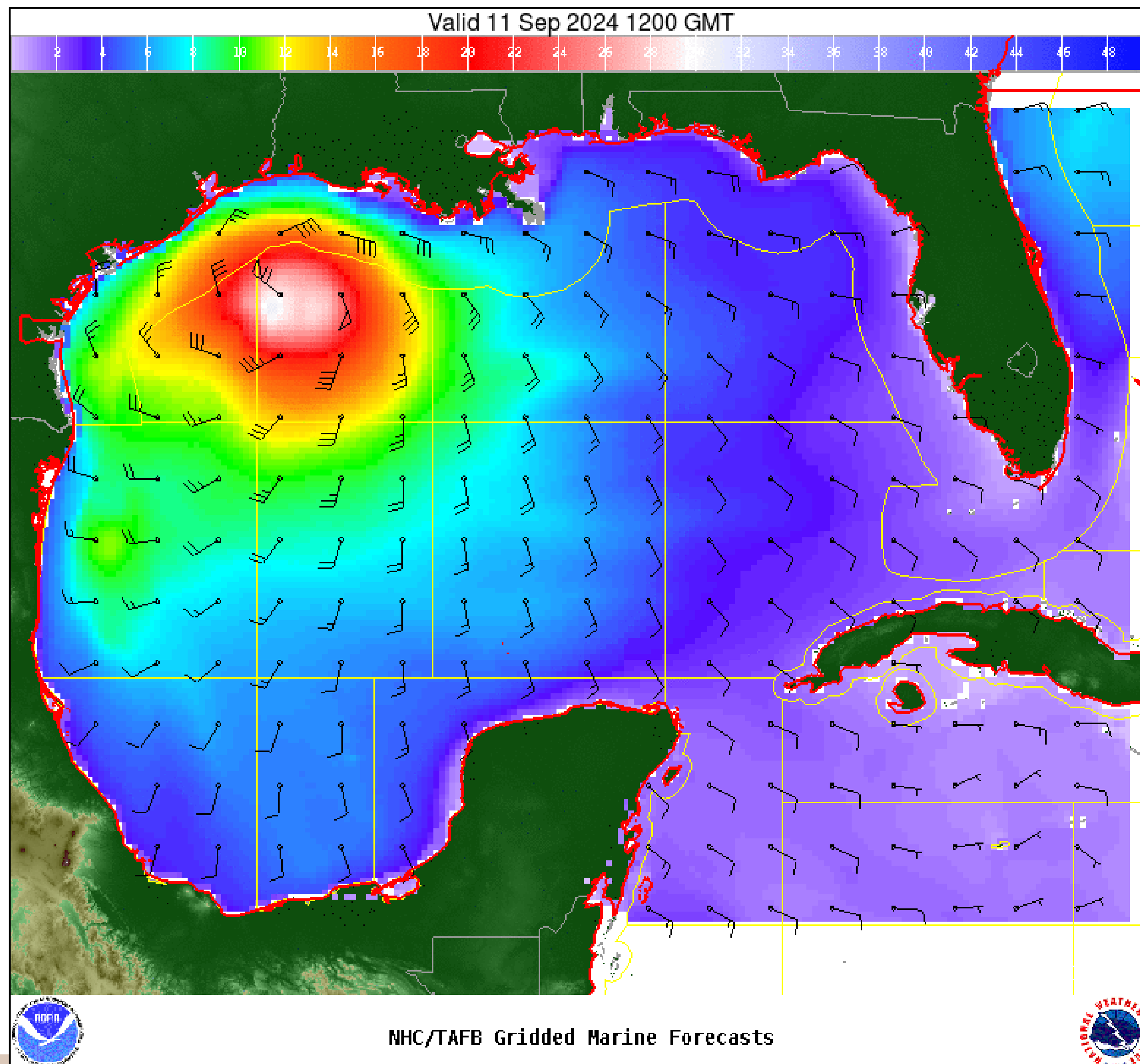
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Francine



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24 Hour Forecast

Wednesday, September 11 at 7:00 AM CDT

Peak Winds: 80 kt

Peak Seas: 31 ft

- Wave heights are in feet



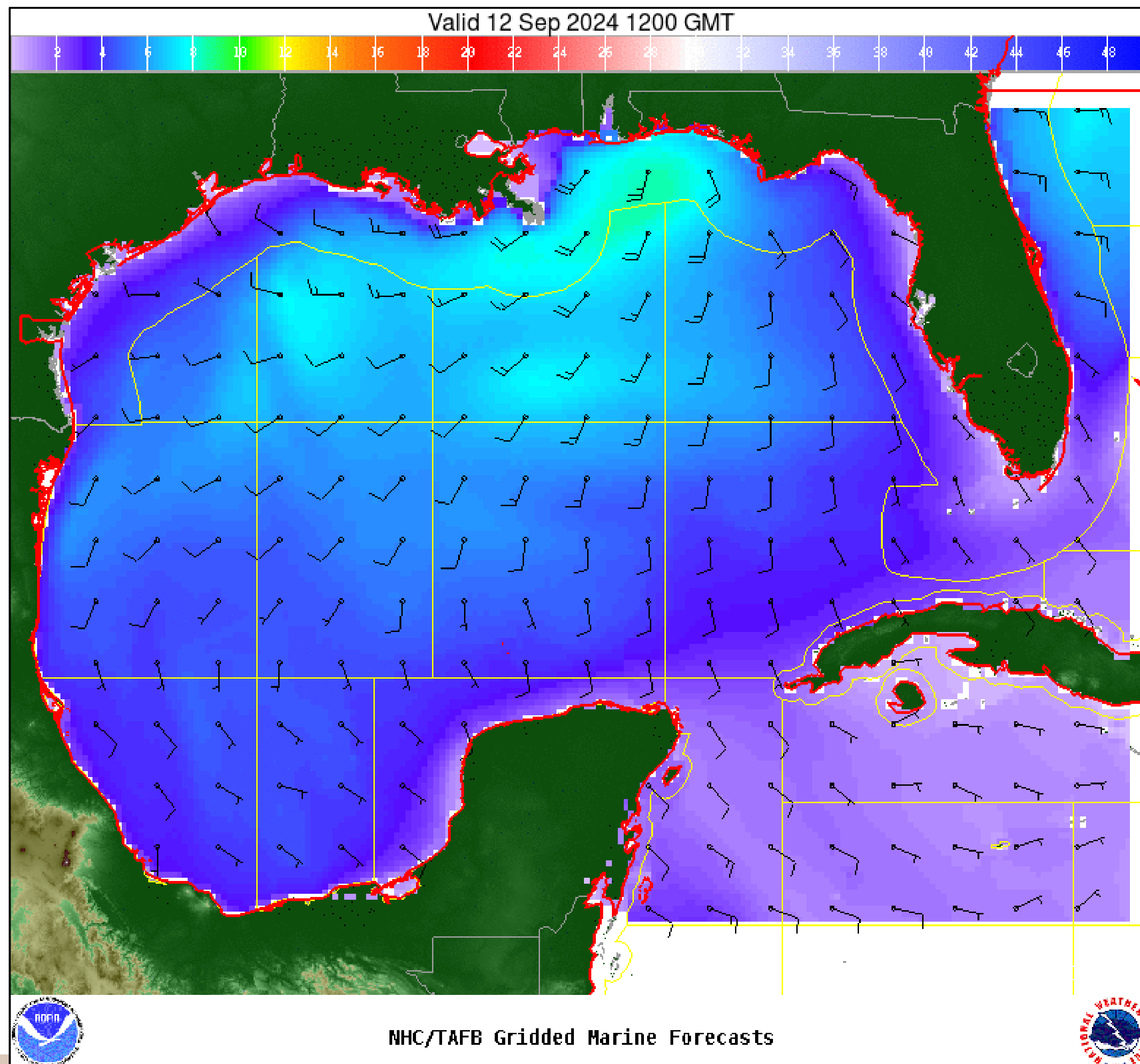
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Francine



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48 Hour Forecast

Thursday, September 12 at 7:00 AM CDT

Peak Winds: 25 kt

Peak Seas: 9 ft

- Wave heights are in feet



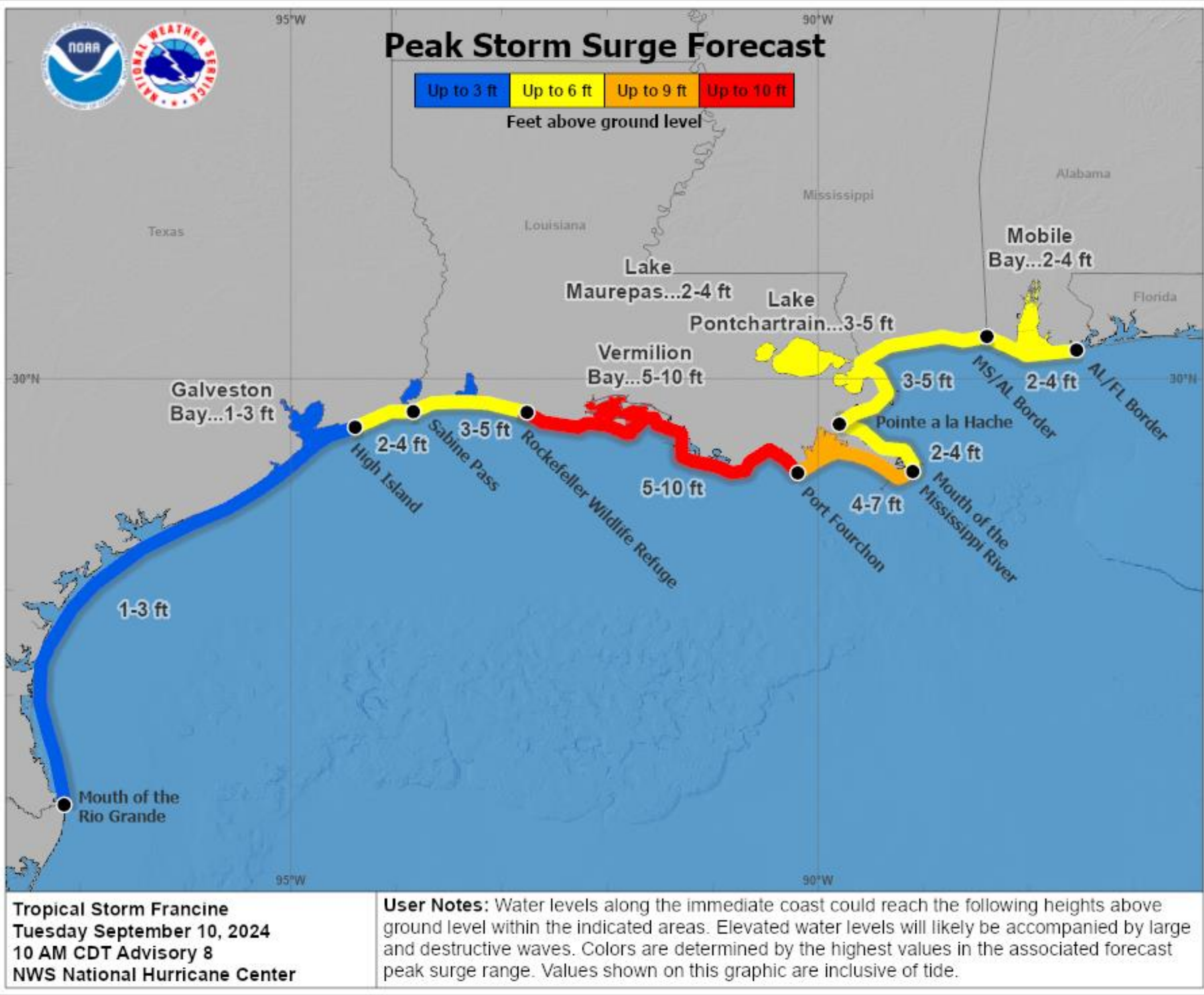
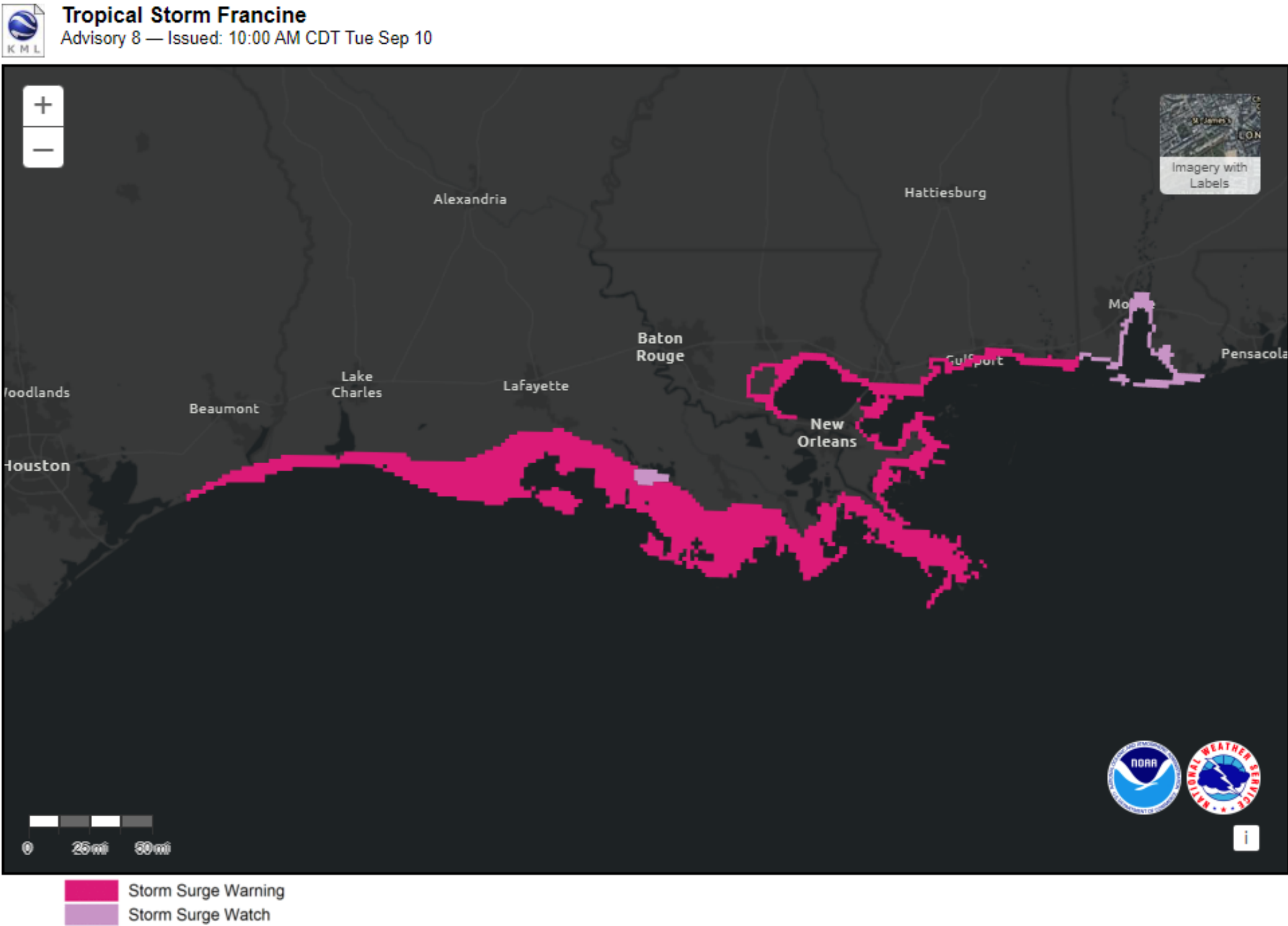
Significant Wave Height (ft)

Potential Peak Storm Surge / Watches and Warnings



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Tropical Storm Francine



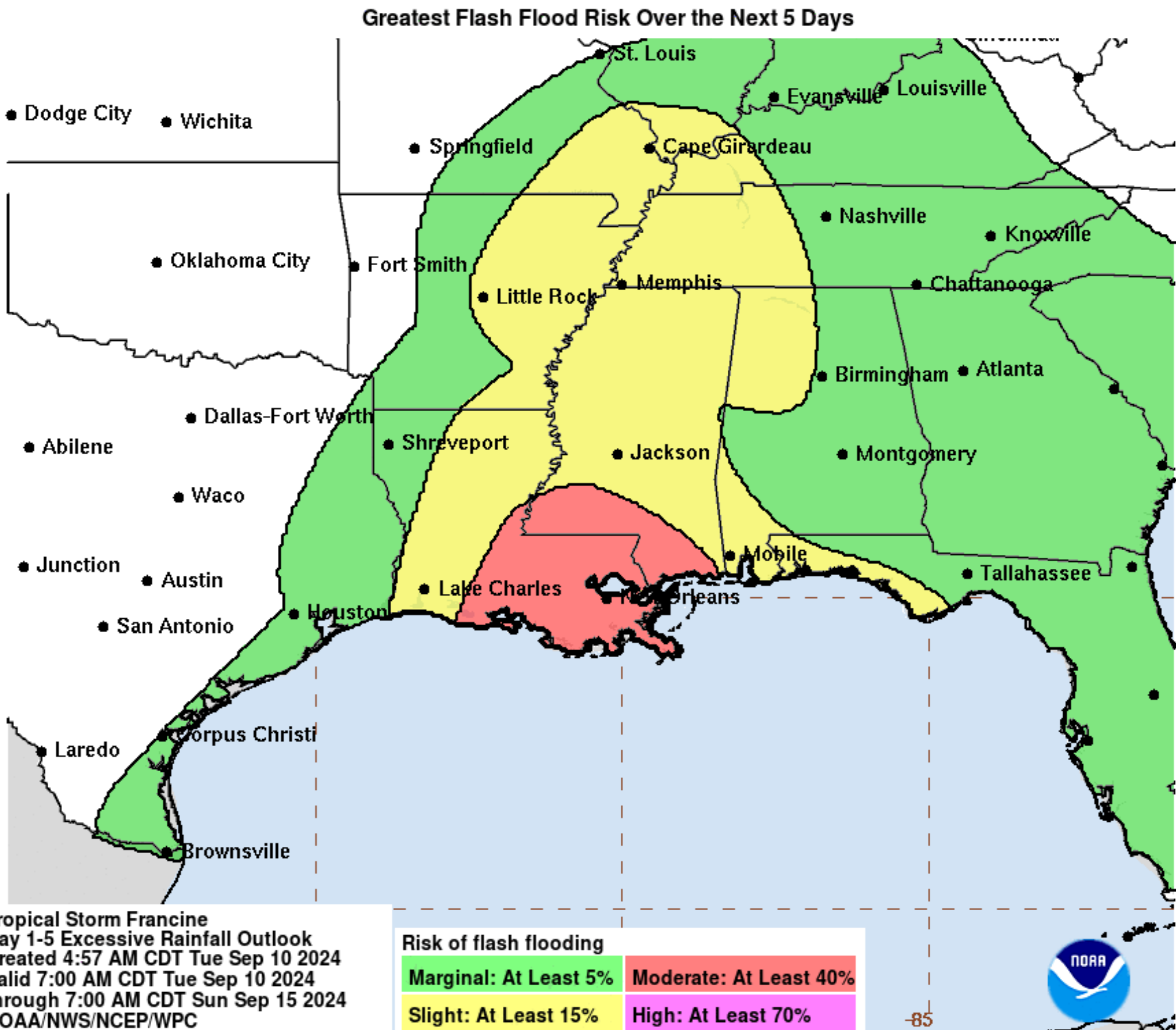
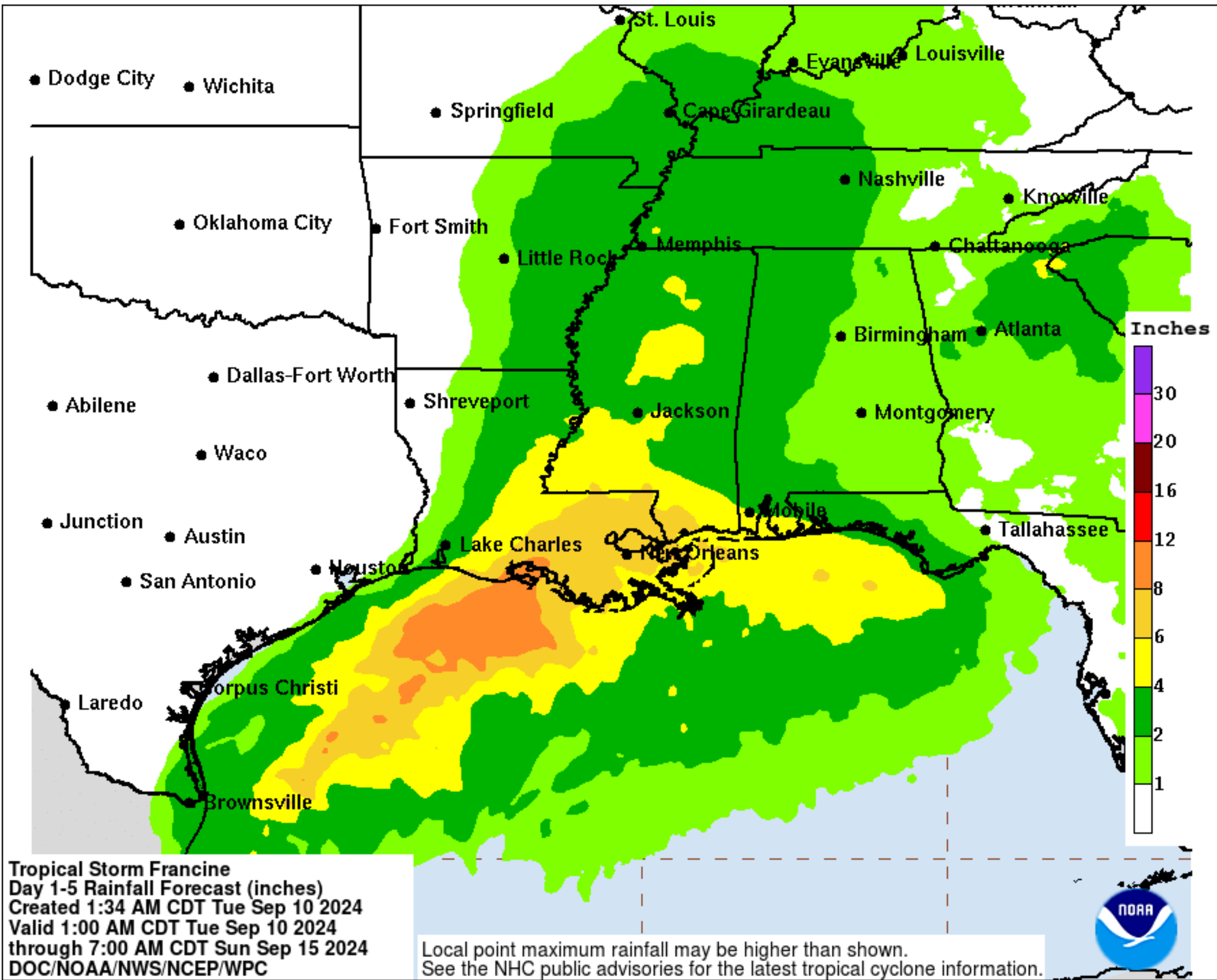
Expected Storm Total Rainfall and Chance of Rainfall Flooding

Tropical Storm Francine

Images from NWS Weather Prediction Center



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

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

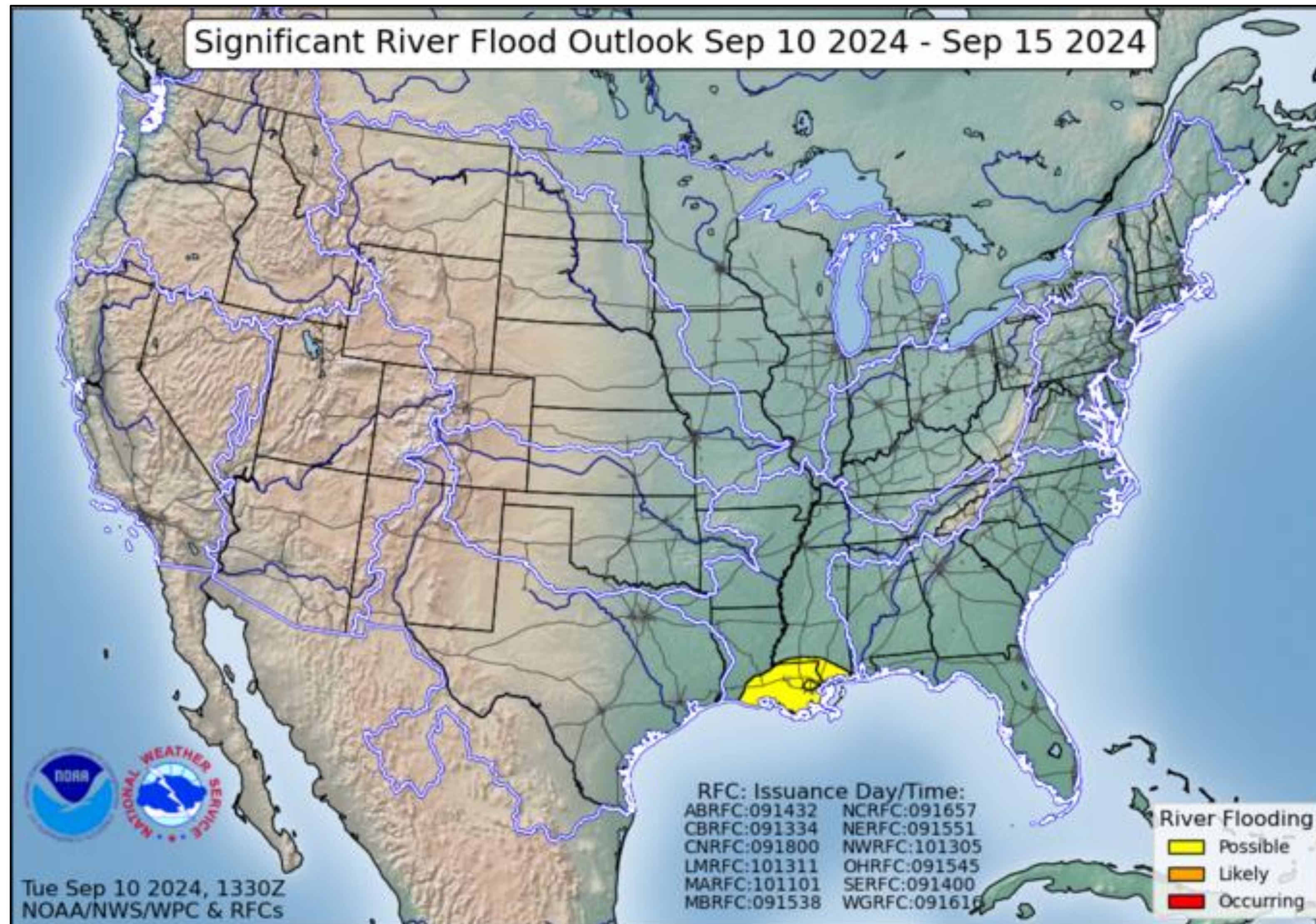
Refer to map legend for Valid Time

Flood Outlook

Tropical Storm Francine



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- Possible river flooding for Louisiana and S Mississippi

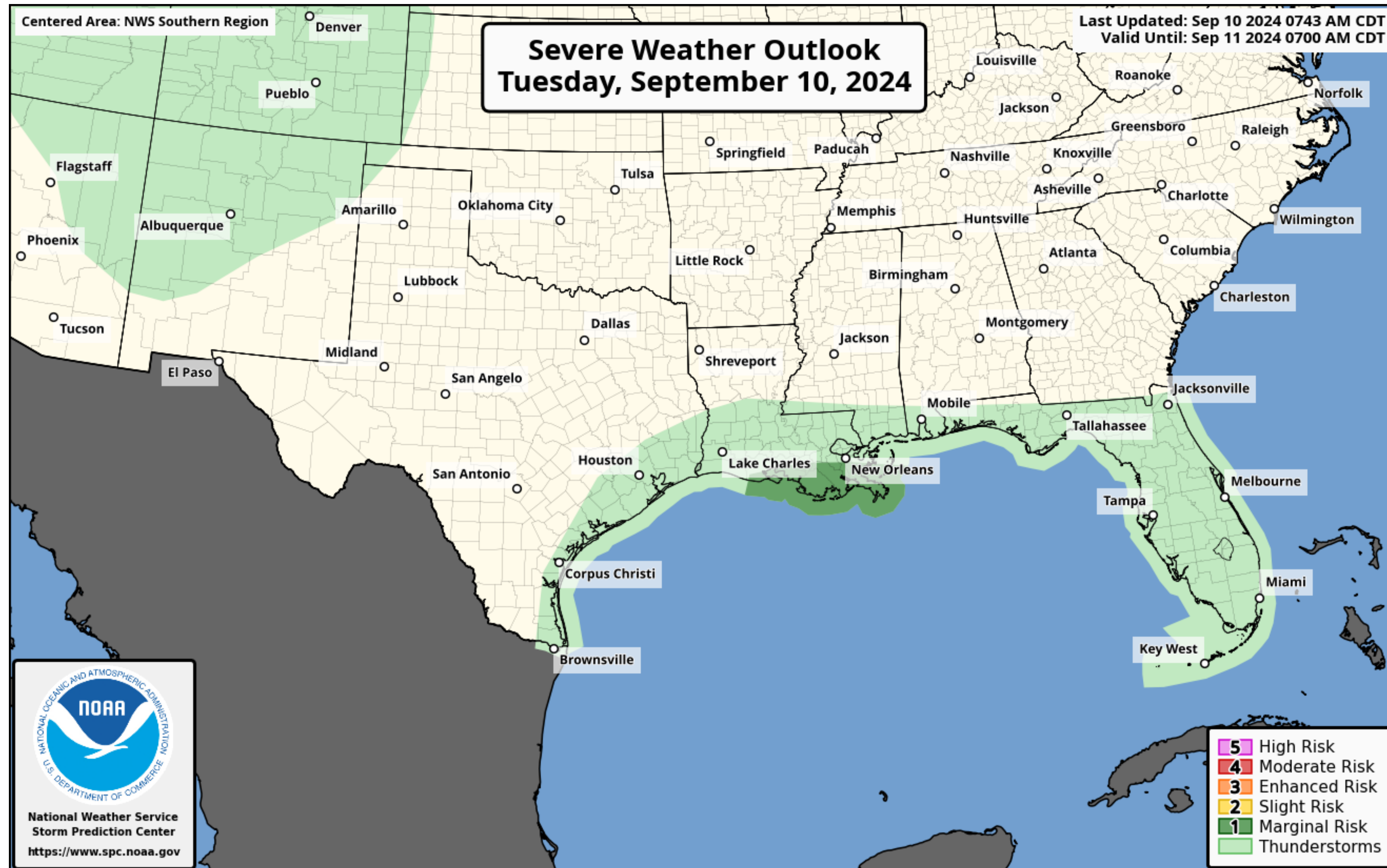
Tornado Outlook – Day 1

Tropical Storm Francine

Image from NWS Storm Prediction Center



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NWS National Hurricane Center



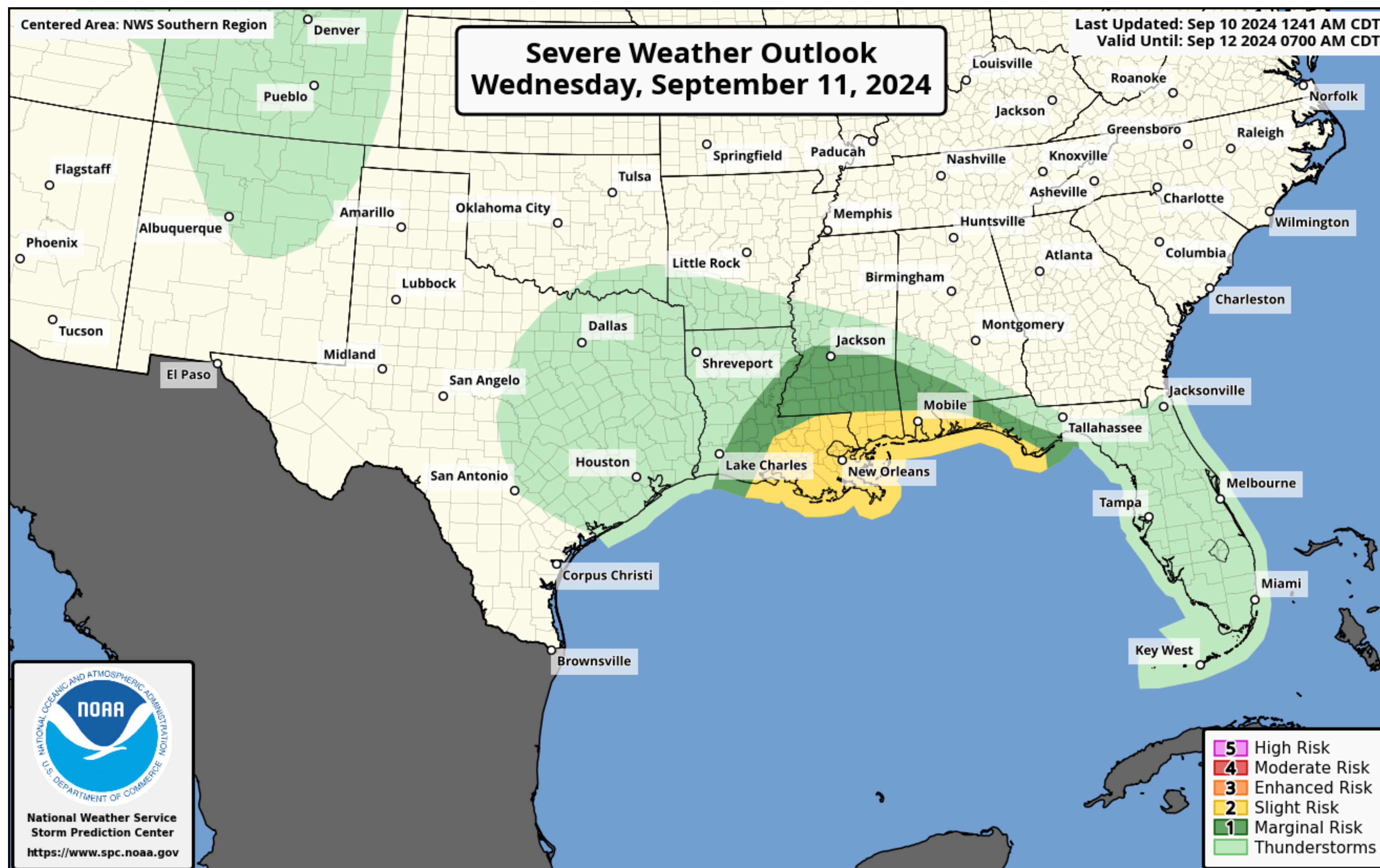
Tornado Outlook – Day 2

Tropical Storm Francine

Image from NWS Storm Prediction Center



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Key Messages

Tropical Storm Francine



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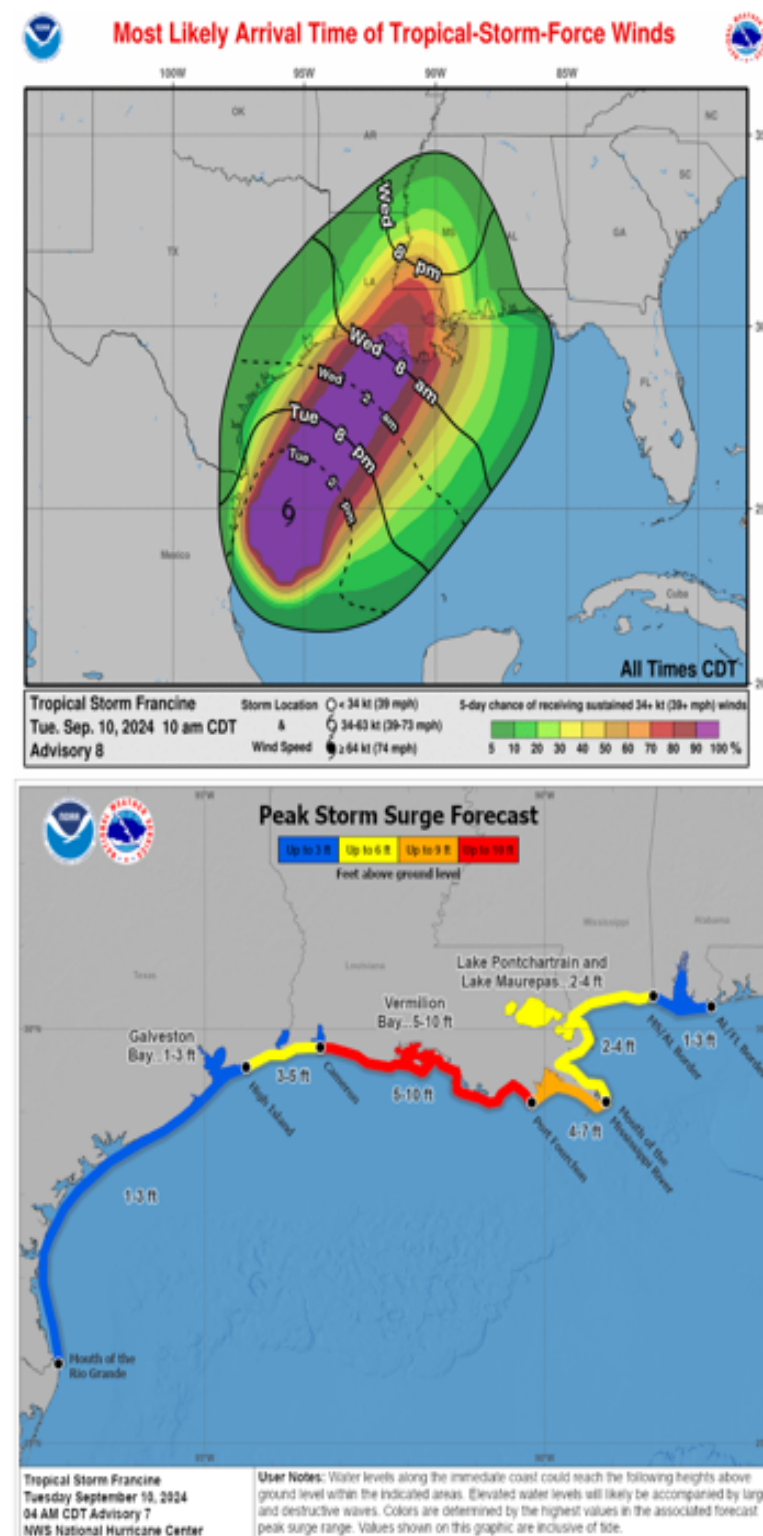


Key Messages for Tropical Storm Francine

Advisory 8: 10:00 AM CDT Tue Sep 10, 2024



1. There is a danger of life-threatening storm surge for portions of the Upper Texas, Louisiana, and Mississippi coastlines where a Storm Surge Warning is in effect. Residents in the warning area should follow advice, including evacuation orders, given by local officials.
2. Damaging and life-threatening hurricane-force winds are expected in portions of southern Louisiana Wednesday, where a Hurricane Warning is in effect. Preparations to protect life and property should be complete by tonight, since tropical storm conditions are expected to begin within this area early Wednesday.
3. Francine is expected to bring heavy rainfall and the risk of considerable flash and urban flooding for far northeast Mexico into the far southern coast of Texas today and across much of Louisiana and Mississippi through Thursday. Flash and urban flooding is probable across the Mid-South Wednesday night into Friday morning.



For more information go to hurricanes.gov

IMPACTS FOR **D8** through next days

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Winds/SRR – High

Waves/US Coastal – Extreme

Waves/SRR – Extreme

US Storm Surge – Extreme

US Rainfall/Flash Flooding – High

US Tornadoes – Medium

Marine Key Messages:

- Confidence has increased that Francine will likely be a Category 1 or 2 at the time of landfall on Wednesday late afternoon/early evening over the Louisiana coast.
- Seas will likely peak to 27 ft Wednesday morning.
- Conditions will quickly improve after landfall Wednesday late 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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TIME of NEXT NHC Advisory:

21 UTC: / 4 PM CDT

*The Next Briefing Will Be:
Wednesday / 1:00 AM CDT*

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



NHC_TAFB

www.nhc.noaa.gov