

**IMPACTS FOR USCG District 8 (through next 5 days)**

**Winds – Moderate**

**Storm Surge – Moderate**

**Rainfall/Flash Flooding – High**

**Tornadoes – Low**

**Waves - Moderate**

# TROPICAL STORM NICOLAS BRIEFING



11:00 AM CDT  
Sunday, September 12, 2021

Prepared by:

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*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*



NHC\_TAFB

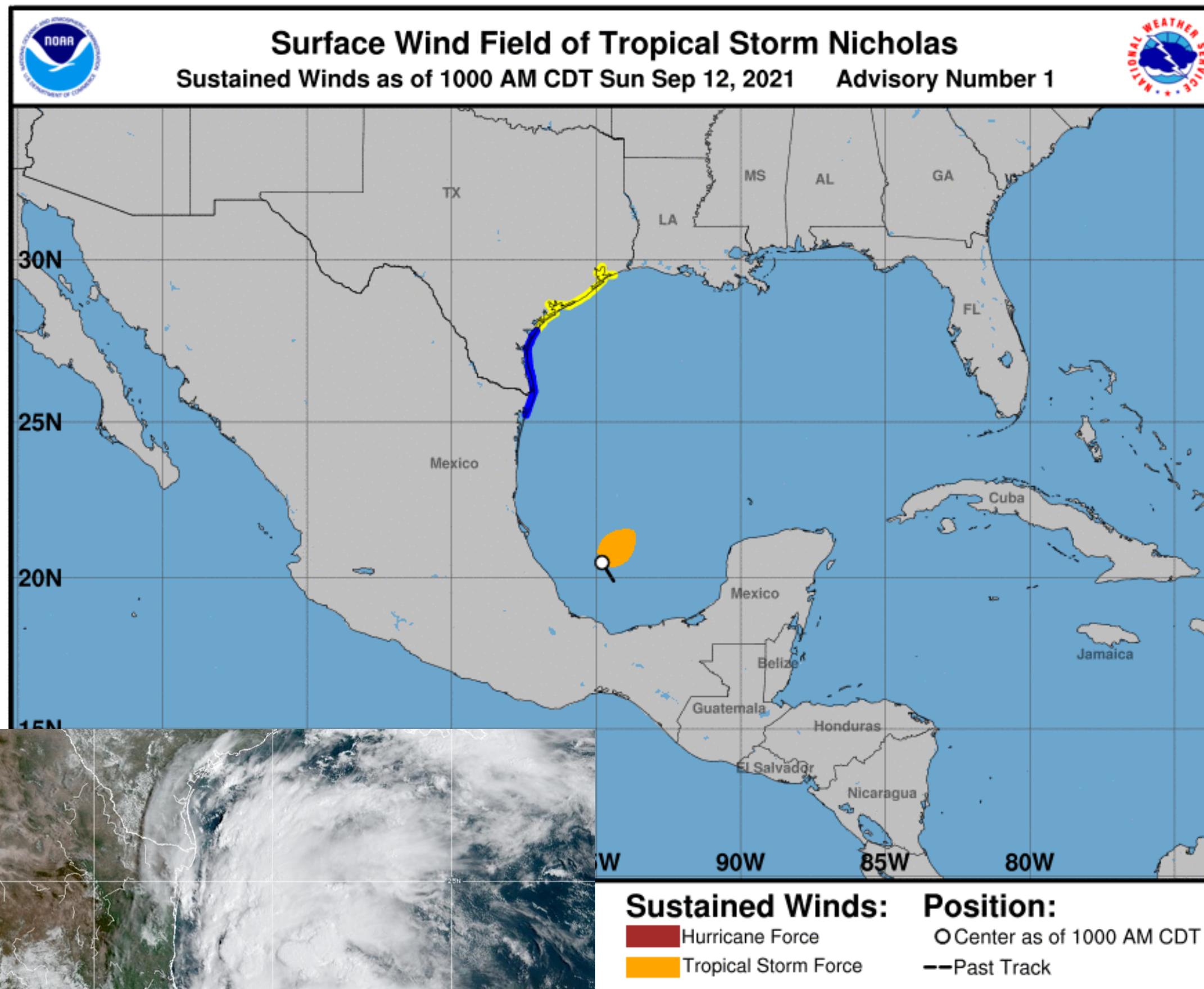
[www.nhc.noaa.gov](http://www.nhc.noaa.gov)

# Situation Overview

## Tropical Storm Nicolas



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



**...TROPICAL STORM NICHOLAS FORMS IN THE SOUTHWESTERN GULF OF MEXICO...**

**...TROPICAL STORM WARNINGS AND WATCHES ISSUED FOR THE COASTS OF NORTHEASTERN MEXICO AND TEXAS...**

Summary of 1000 AM CDT...1500 UTC...Information

LOCATION...20.5N 94.8W

ABOUT 130 NM NE OF VERACRUZ MEXICO  
ABOUT 405 NM SSE OF MOUTH OF THE RIO GRANDE

MAXIMUM SUSTAINED WINDS...35 KT

PRESENT MOVEMENT...NNW at 14 KT

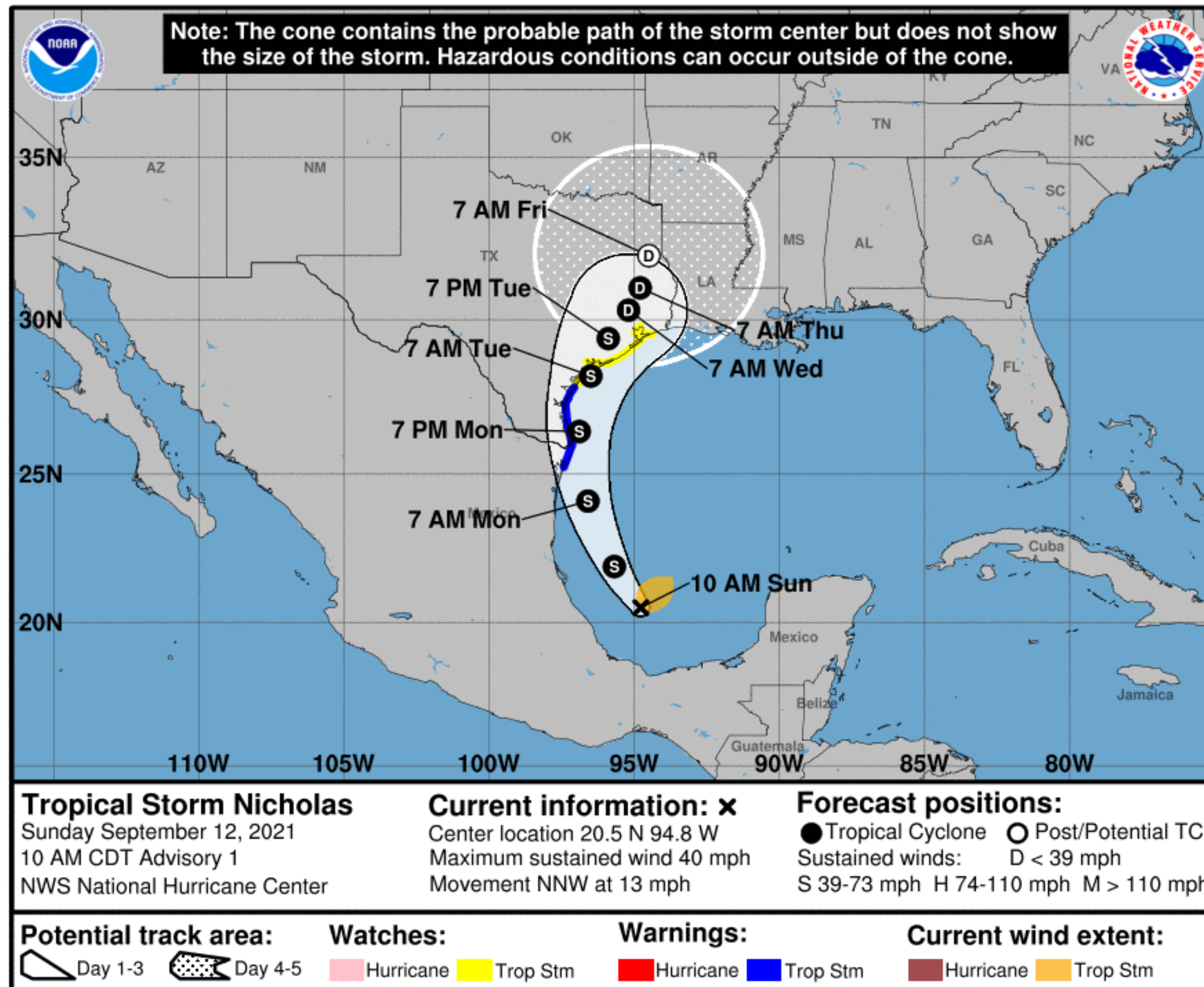
PEAK SEAS 10 FT

# Forecast Information

## Tropical Storm Nicolas



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NWS National Hurricane Center



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

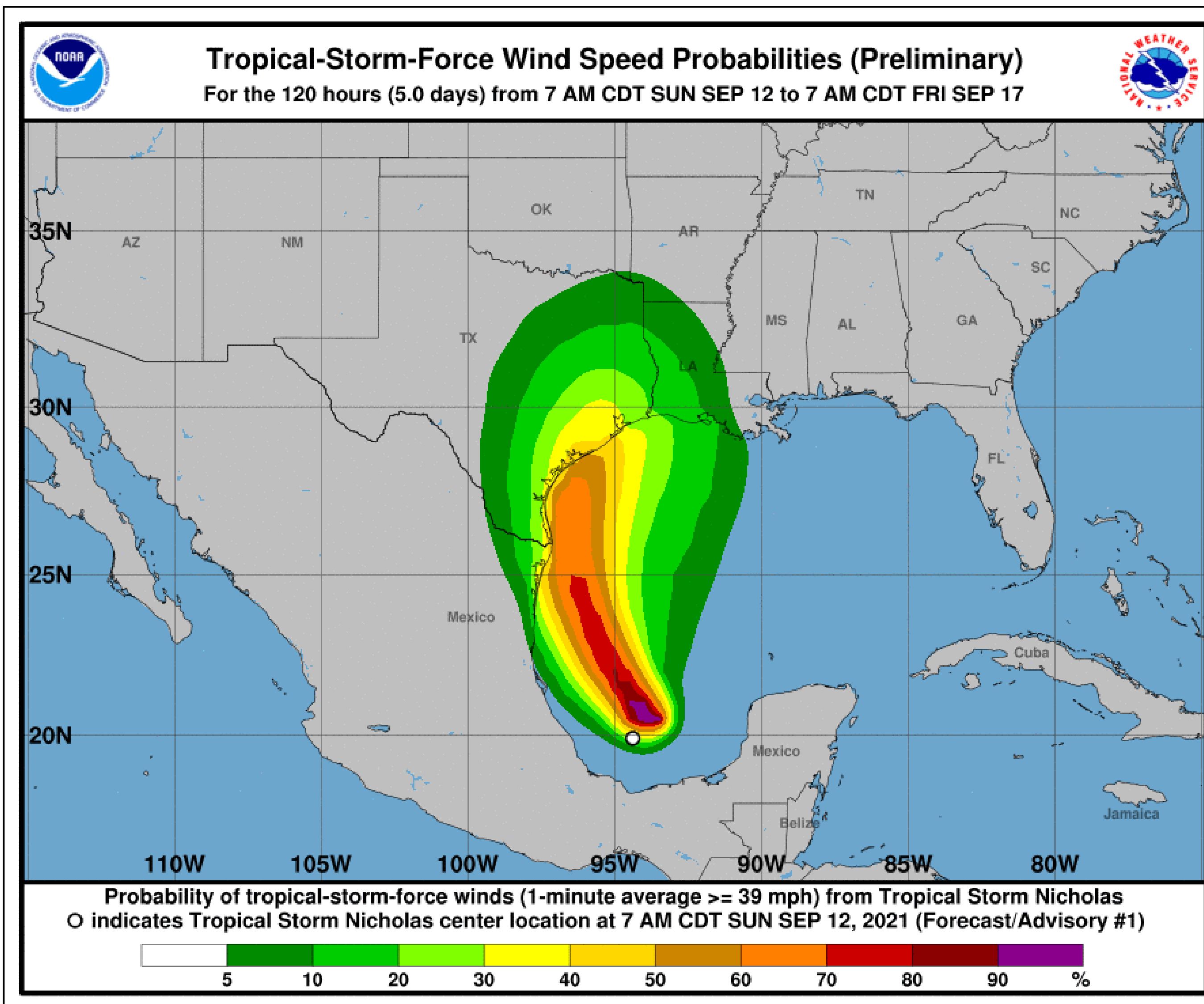
- Nicholas should gradually turn more N, then eventually NE
  - Forward speed should slow over the next few days
  - Gradual strengthening likely, but Nicolas expected to remain below hurricane strength through landfall.
  - Current center forecast positions through the next 5 days (if applicable) illustrated 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.

# T.S. Wind Speed Probabilities

## Tropical Storm Nicolas



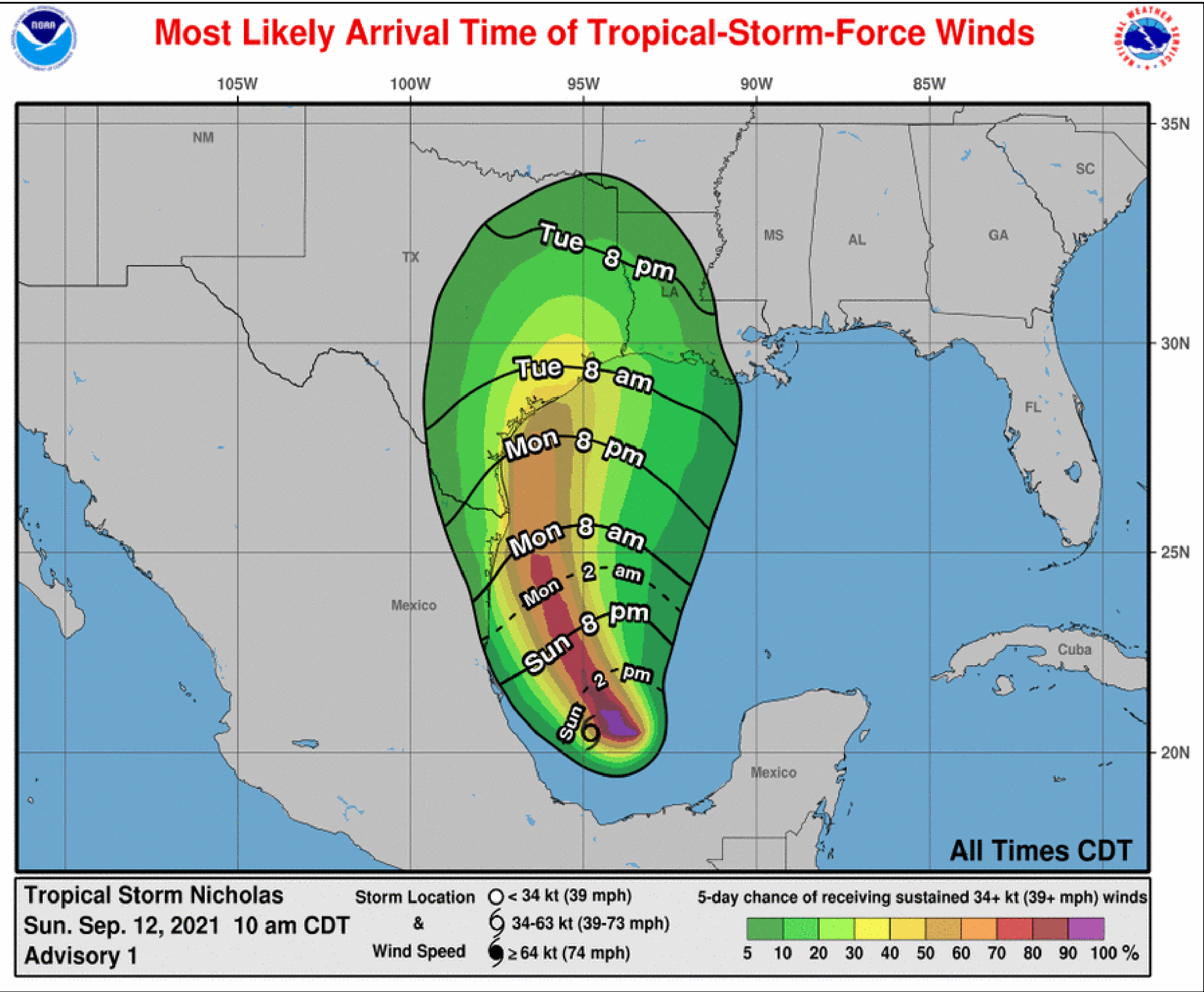
Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



- Brownsville/Port Isabel: 30%
  - Corpus Christi/Port Aransas: 30%
  - Port O'Connor: 40%
  - Galveston: 35%
  - Houston: 30%
  - Port Arthur: 20%
  - Lake Charles/Cameron: 15%
- 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.



Tropical Storm Nicolas



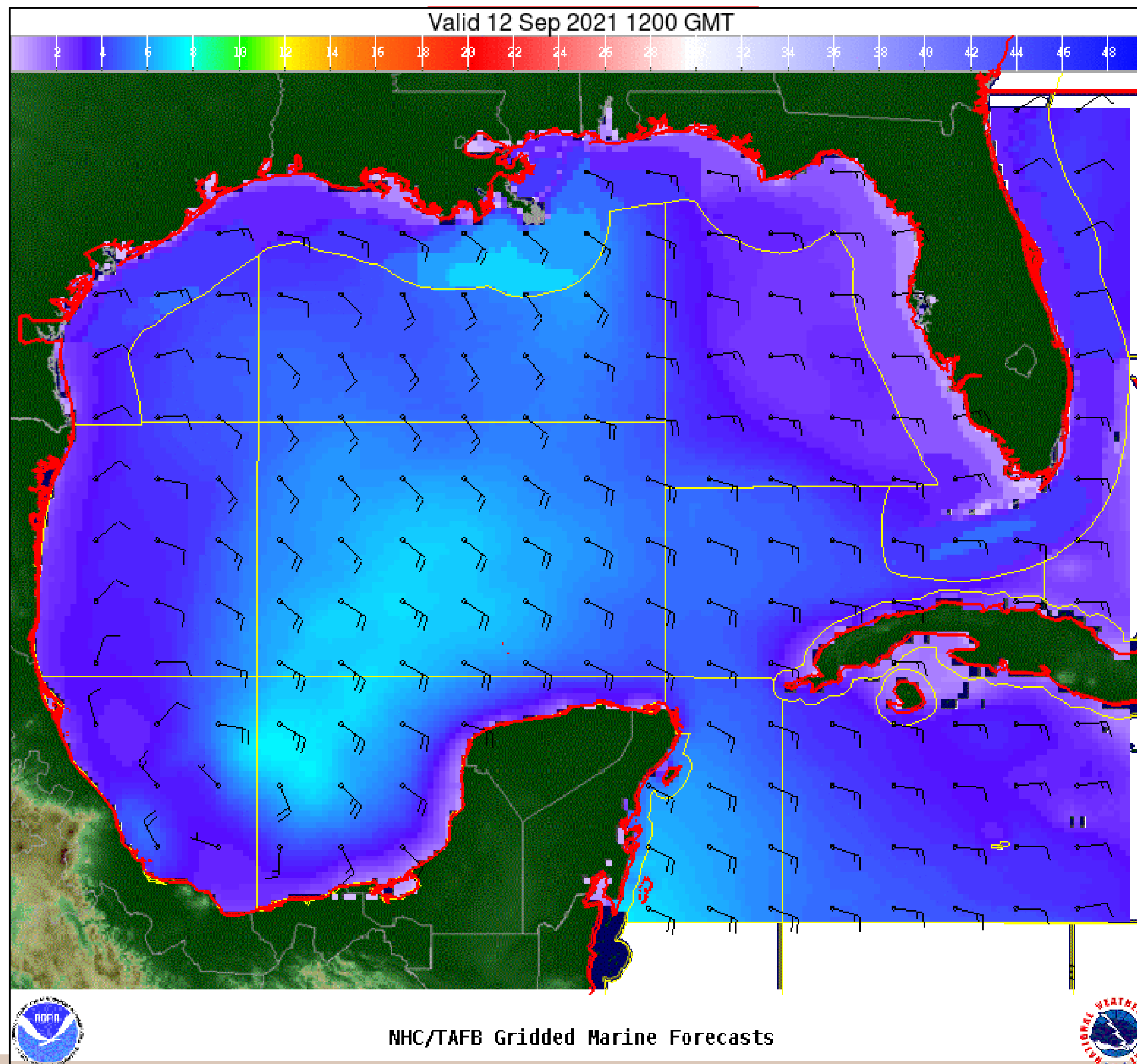
- Lower Texas coast: Monday
- Middle Texas coast: Monday night
- Upper Texas coast: Tuesday morning
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow 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 Nicolas



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NWS National Hurricane Center



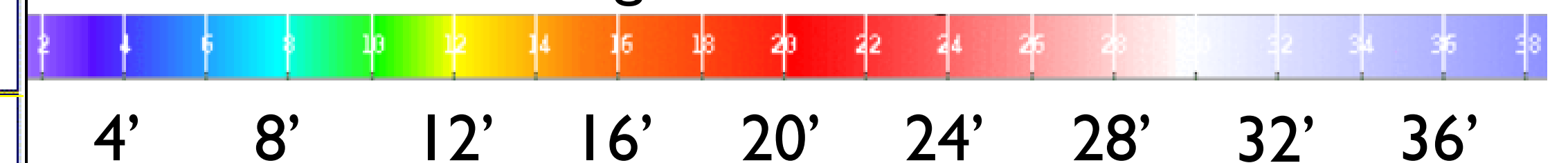
### Current Conditions

**10 AM CDT**

Peak Winds: 35 KT

Peak Seas: 10 FT

■ Wave heights are in feet

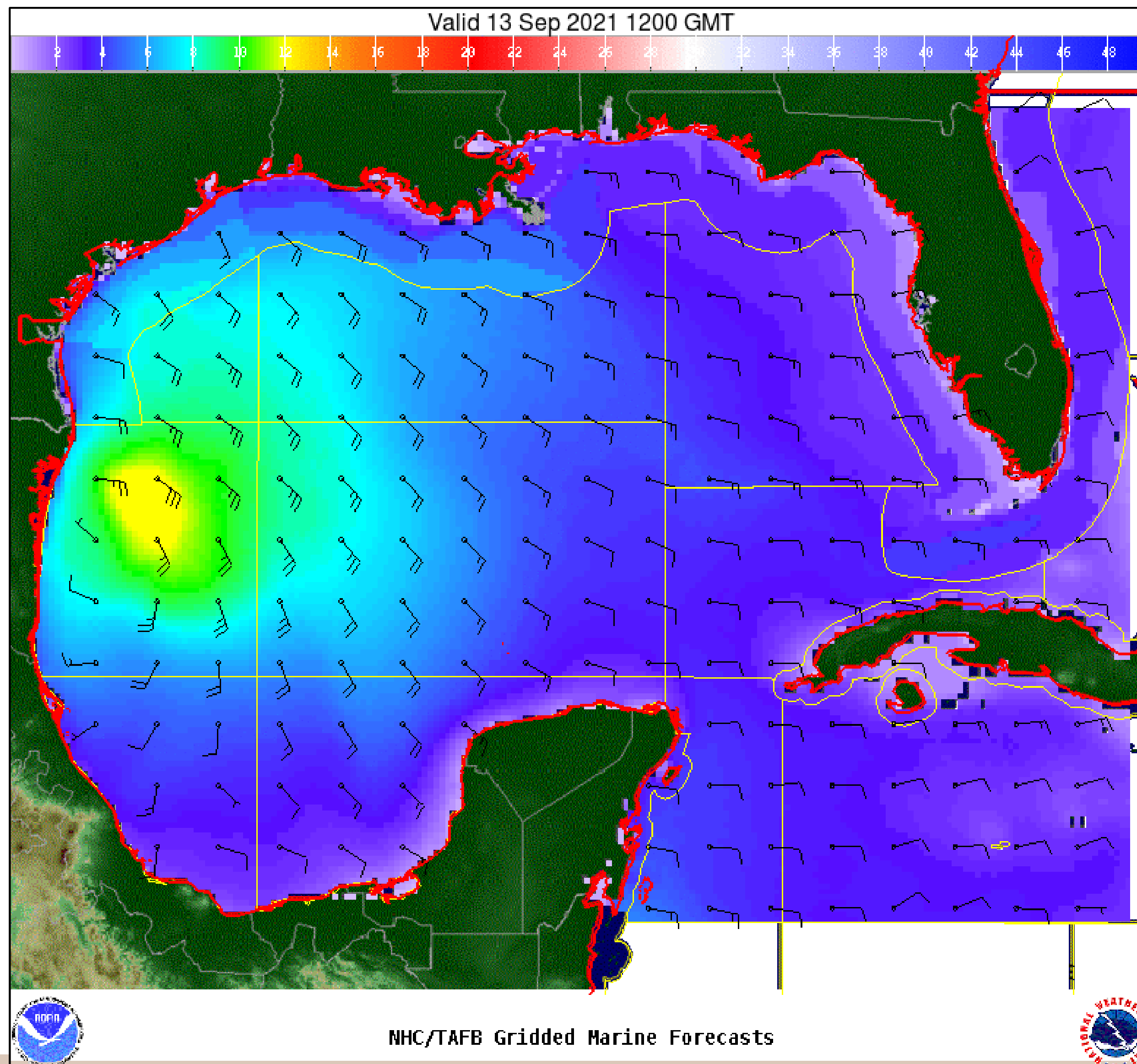


# Wind And Waves

Tropical Storm Nicolas

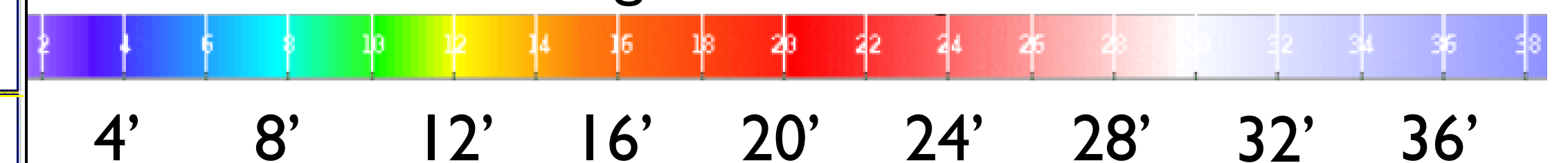


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24 Hour Forecast  
7 AM CDT Monday  
Peak Winds: 45 KT  
Seas: 14 FT

■ Wave heights are in feet

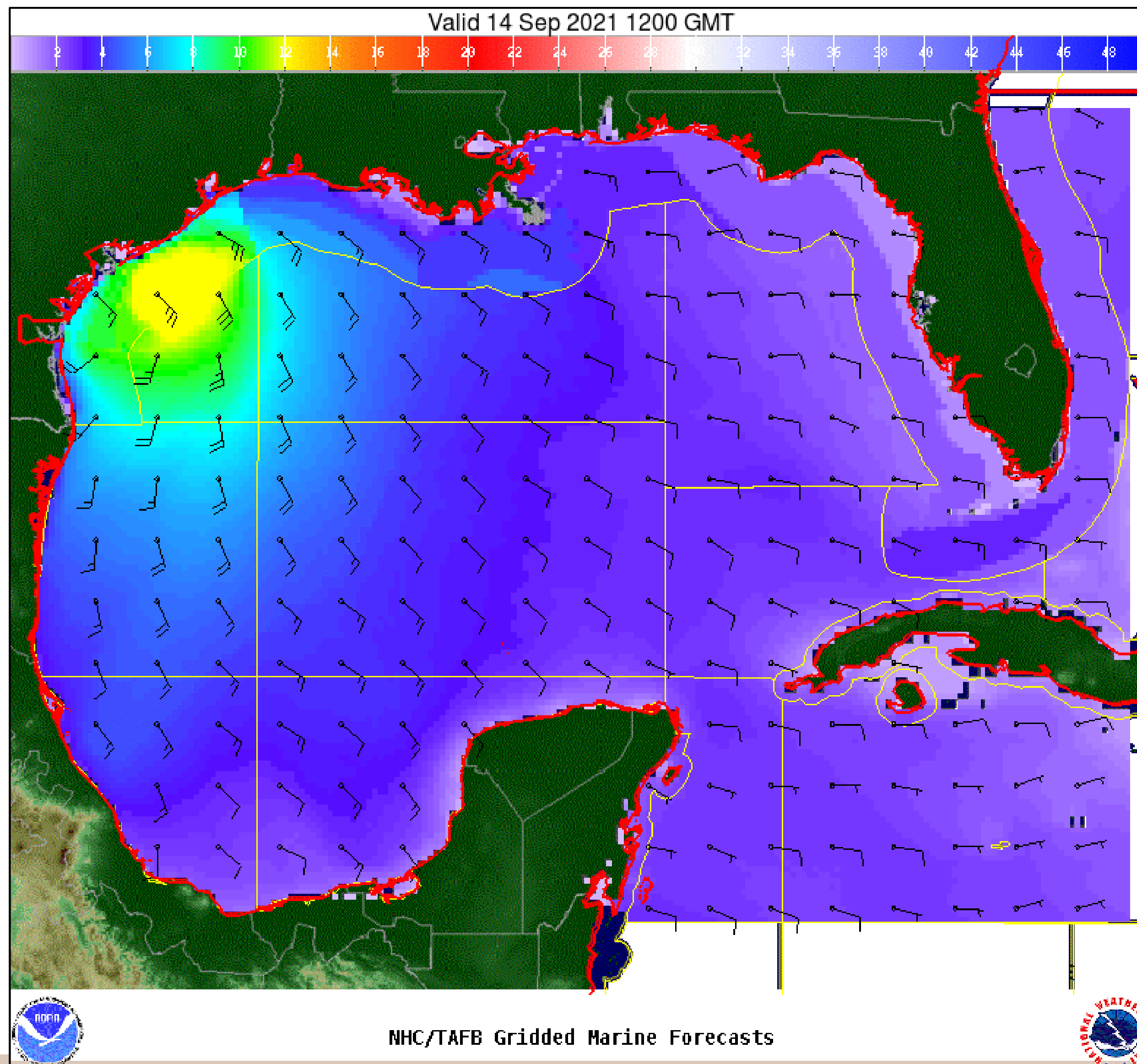


# Wind And Waves

Tropical Storm Nicolas

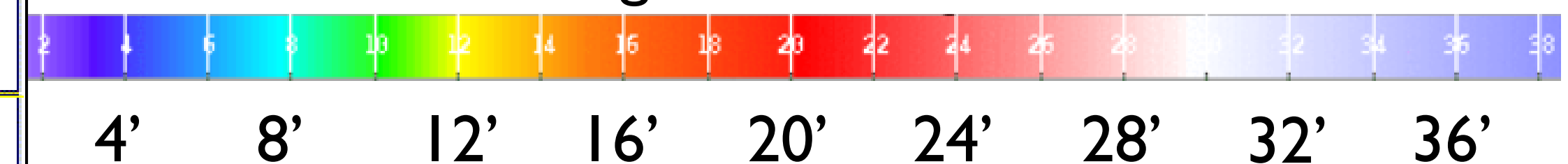


Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



48 Hour Forecast  
7 AM CDT Tuesday  
Peak Winds: 55 KT  
Peak Seas: 14 FT

■ Wave heights are in feet

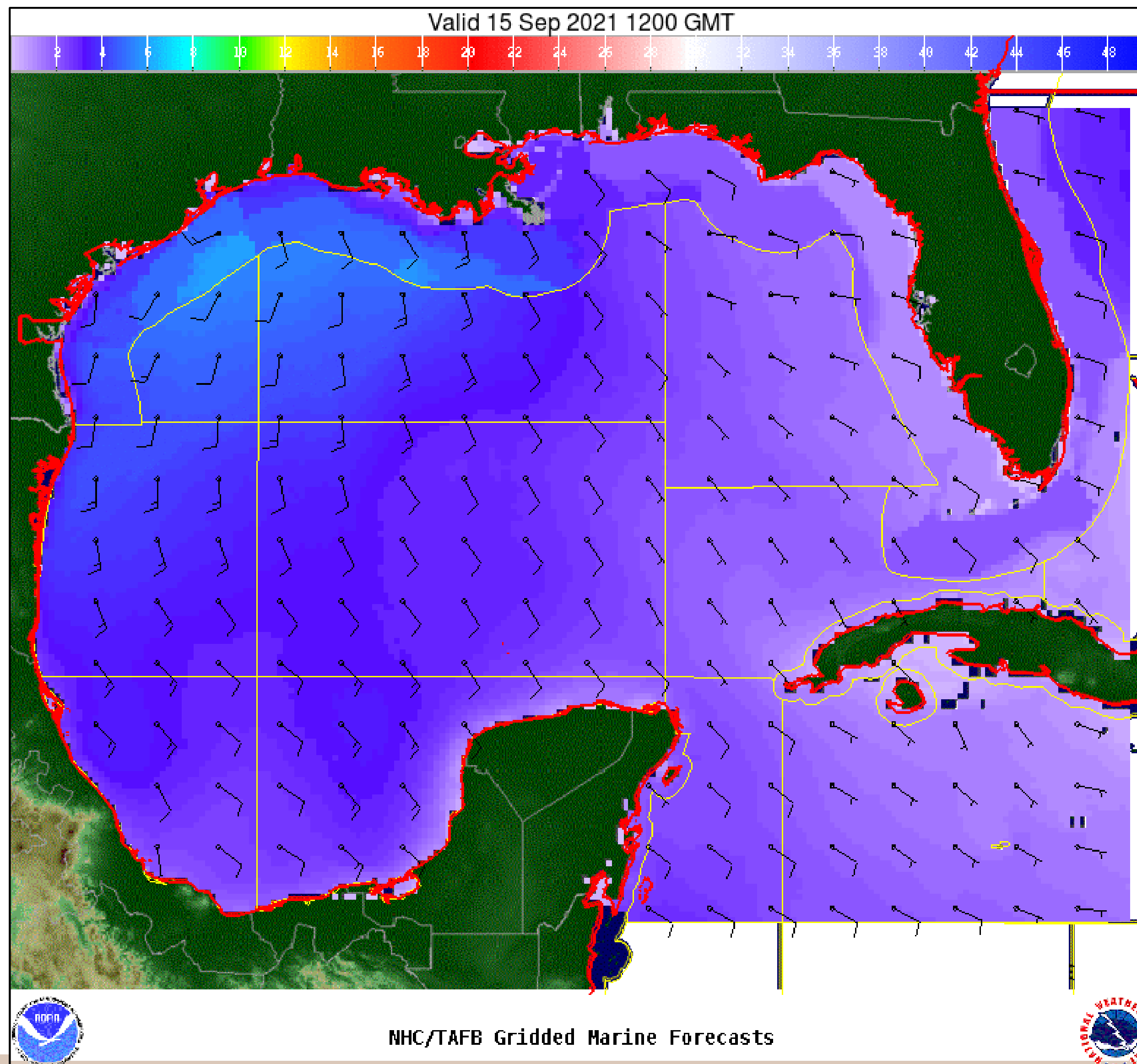


# Wind And Waves

## Tropical Storm Nicolas



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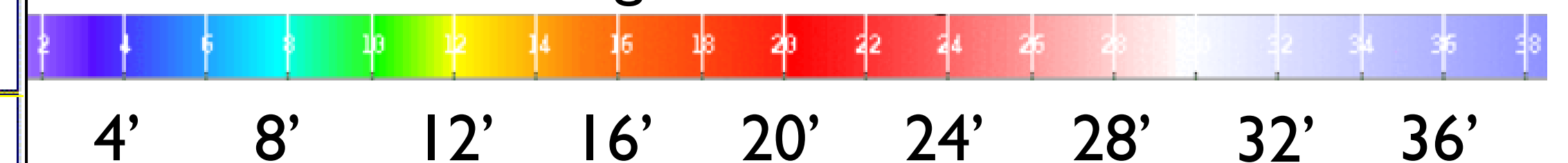
72 Hour Forecast

7 AM CDT Wed

Peak Winds: 25 KT (over water)

Peak Seas: 11 FT

■ Wave heights are in feet

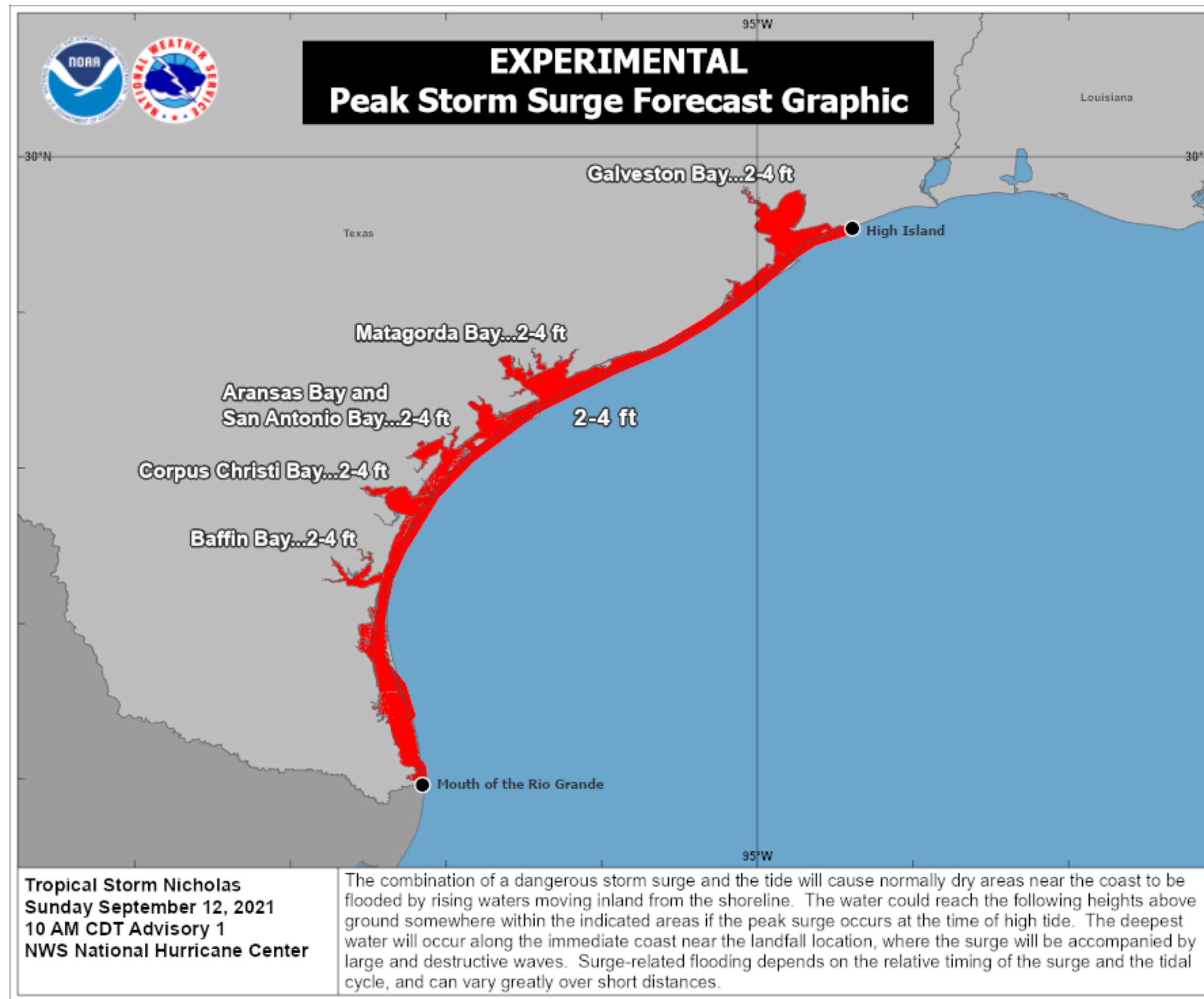


# Potential Peak Storm Surge / Watches and Warnings



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NWS National Hurricane Center

## Tropical Storm Nicolas



- Storm Surge for most of Texas coast (red shaded areas)
- Potential storm surge is represented in feet above the ground at any given point.

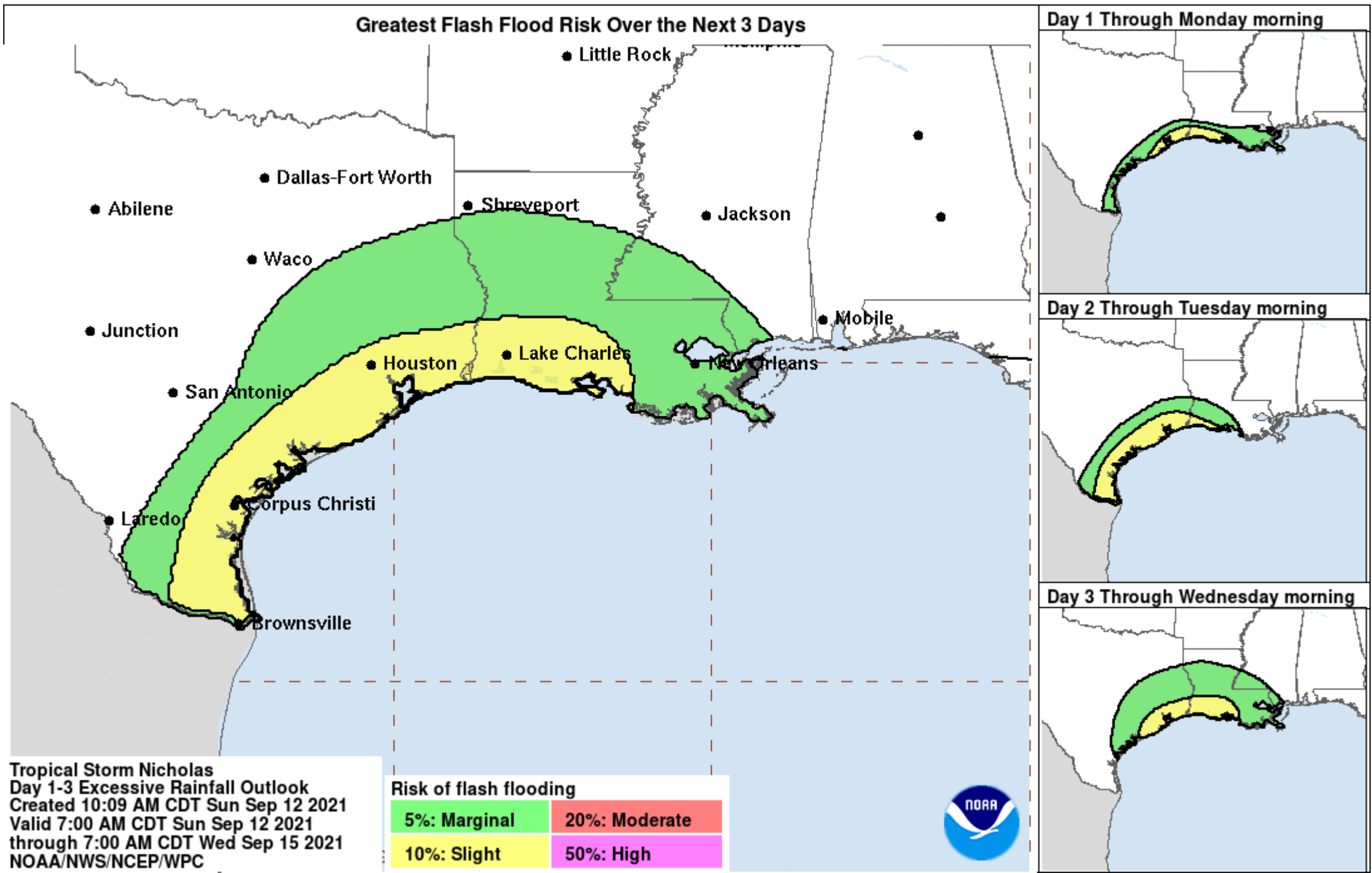
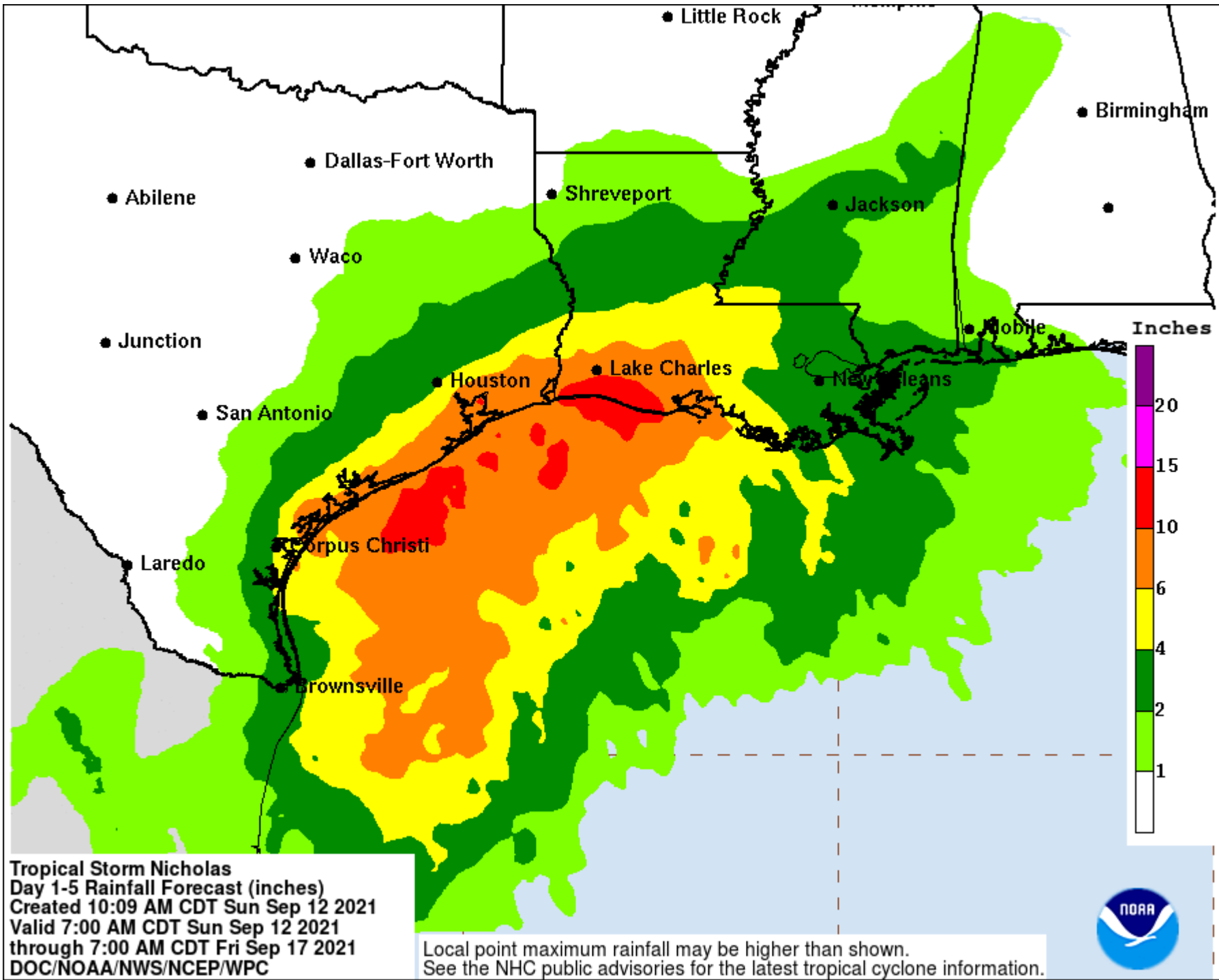
# Expected Storm Total Rainfall and Chance of Rainfall Flooding



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NWS National Hurricane Center

## Tropical Storm Nicolas

Images from NWS Weather Prediction Center



- Rainfall amounts of 5 to 10” along the Texas coast through mid-week
- Locally much higher amounts possible

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

# Key Messages

## Tropical Storm Nicolas



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NWS National Hurricane Center



### Key Messages for Tropical Storm Nicholas

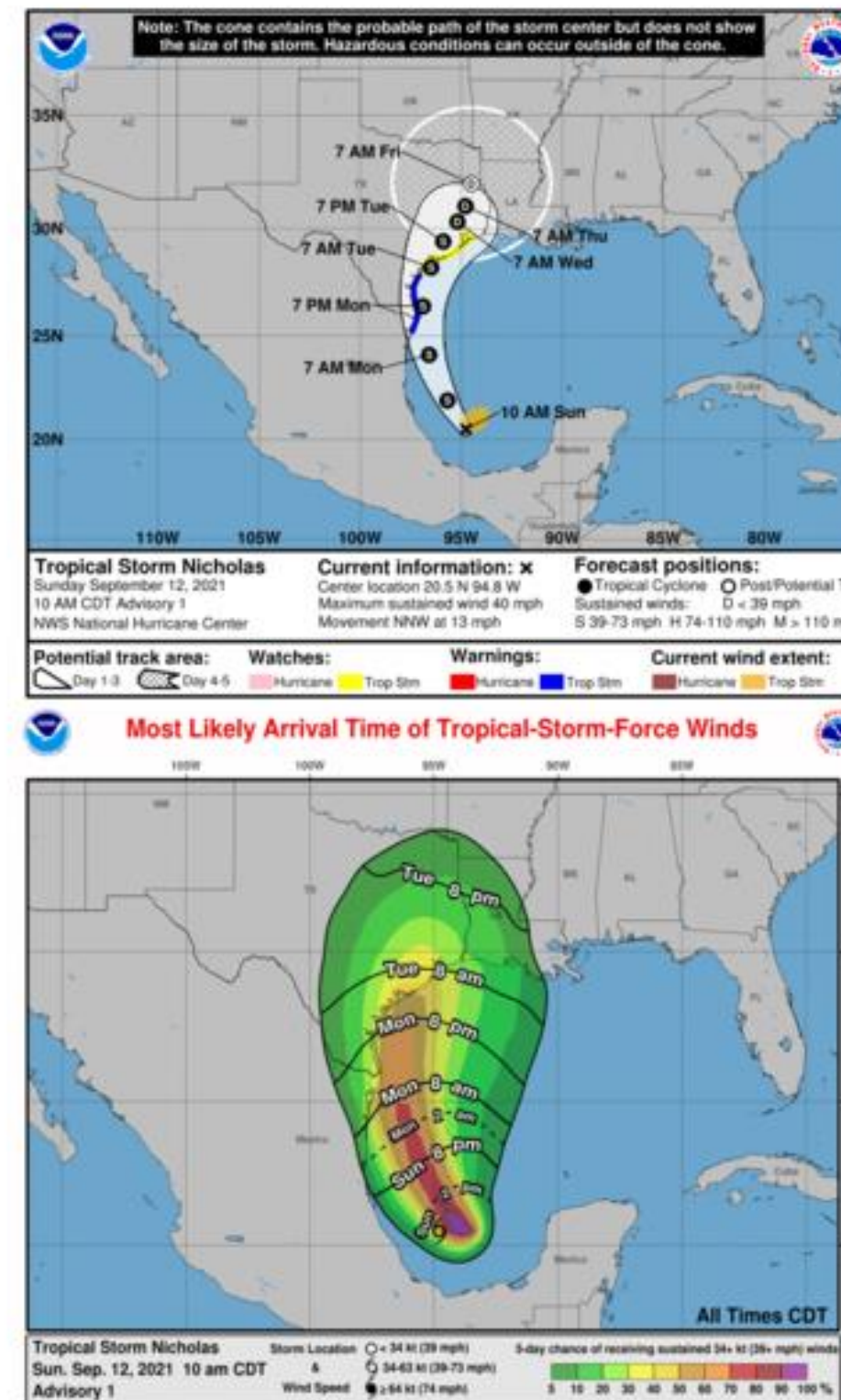
Advisory 1: 10:00 AM CDT Sun Sep 12, 2021



1. Tropical storm conditions are expected along portions of the northeastern coast of Mexico and the coast of south Texas beginning on Monday. Nicholas is forecast to approach the middle Texas coast as a strong tropical storm on Tuesday, and tropical storm conditions are possible along portions of the middle and upper Texas coasts late Monday night and Tuesday.

2. There is the possibility of life-threatening storm surge along the coast of Texas from the Mouth of the Rio Grande to High Island. Residents in these areas should follow any advice given by local officials.

3. Periods of heavy rainfall are expected to impact portions of the Texas and Louisiana coasts today through the middle of the week. Significant rainfall amounts are possible, potentially resulting in areas of flash, urban, and isolated river flooding.



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

### • Marine Key Messages:

# Impacts

Tropical Storm Nicolas



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

- Wind
- Waves
- Storm Surge
- Rainfall Flooding
- Tornadoes



# TROPICAL STORM NICOLAS BRIEFING

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

*You can always find get the latest graphics and information for this storm at [www.hurricanes.gov](http://www.hurricanes.gov)*



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