

IMPACTS FOR (insert D7 or D8) (through next 5 days)

Winds – Moderate

Storm Surge – Moderate

Rainfall/Flash Flooding – Extreme

Tornadoes – Low

Waves - Moderate

TROPICAL STORM NICHOLAS BRIEFING



11:00 AM CDT
Monday, September 13, 2021

Prepared by:
Stephen Konarik

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

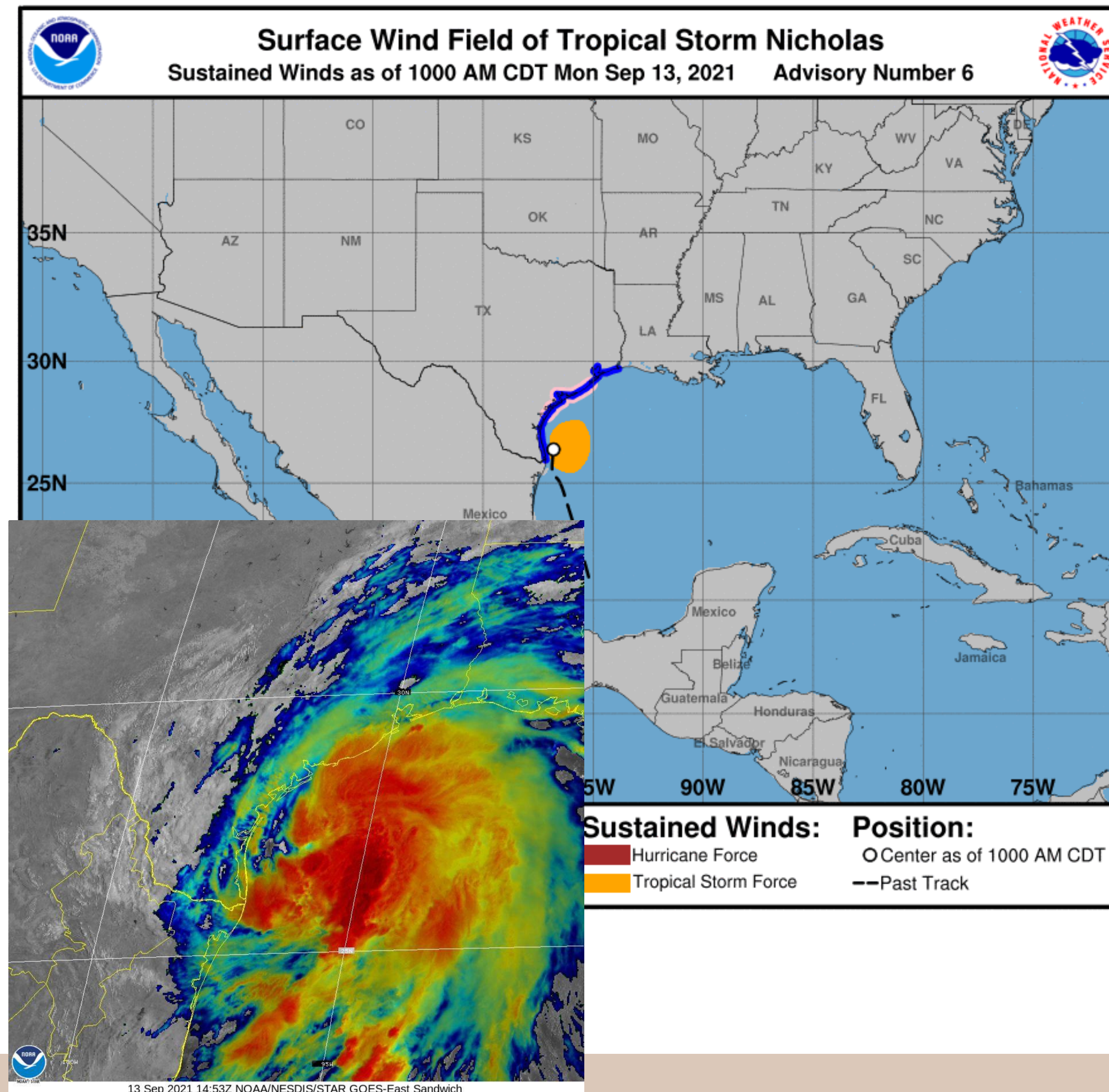
www.nhc.noaa.gov

Situation Overview

Tropical Storm Nicholas



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NWS National Hurricane Center



...NICHOLAS MOVING ERRATICALLY NORTHWARD JUST OFFSHORE THE SOUTHERN COAST OF TEXAS...

...FLASH FLOODING, DANGEROUS STORM SURGE, AND GUSTY WINDS EXPECTED ALONG PORTIONS OF THE SOUTHERN AND MIDDLE TEXAS COASTS TODAY...

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

LOCATION...26.4N 96.8W

ABOUT 40 NM NE OF MOUTH OF THE RIO GRANDE
ABOUT 120 NM S OF PORT OCONNOR TEXAS

MAXIMUM SUSTAINED WINDS...50 KT

PRESENT MOVEMENT...N AT 10 KT

PEAK SEAS 20 FT

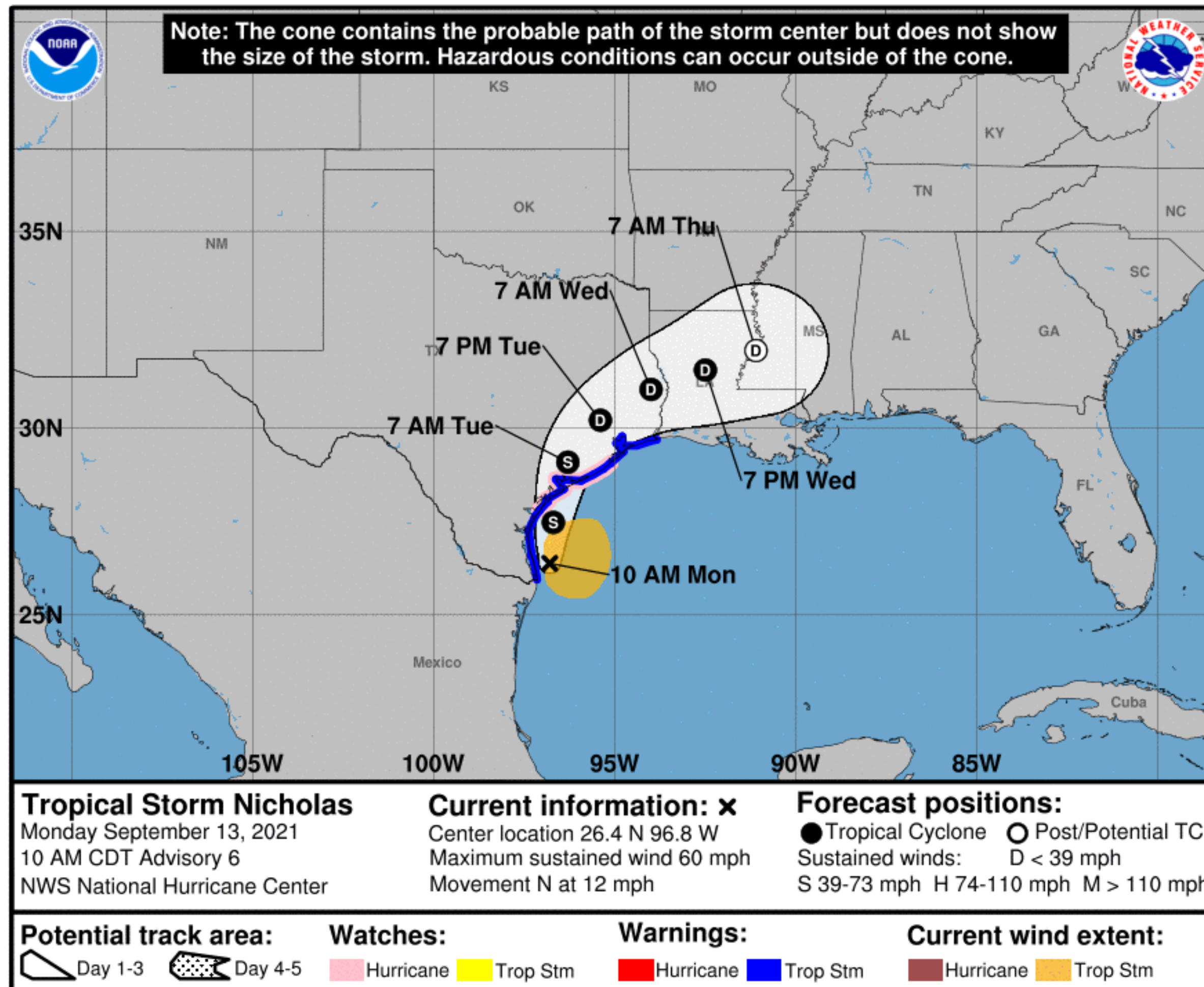
TS winds: 100 NM from center (Mainly NE)
12'+ seas: 60 NM from center (Mainly NE)

Forecast Information

Tropical Storm Nicholas



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

- TS Nicholas gradually curving NE and slowing down over the next day or so
- Expected to reach middle TX coast overnight just below hurricane strength (Hurricane Watch middle TX coast)
- TS Warning entire TX coast
- 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

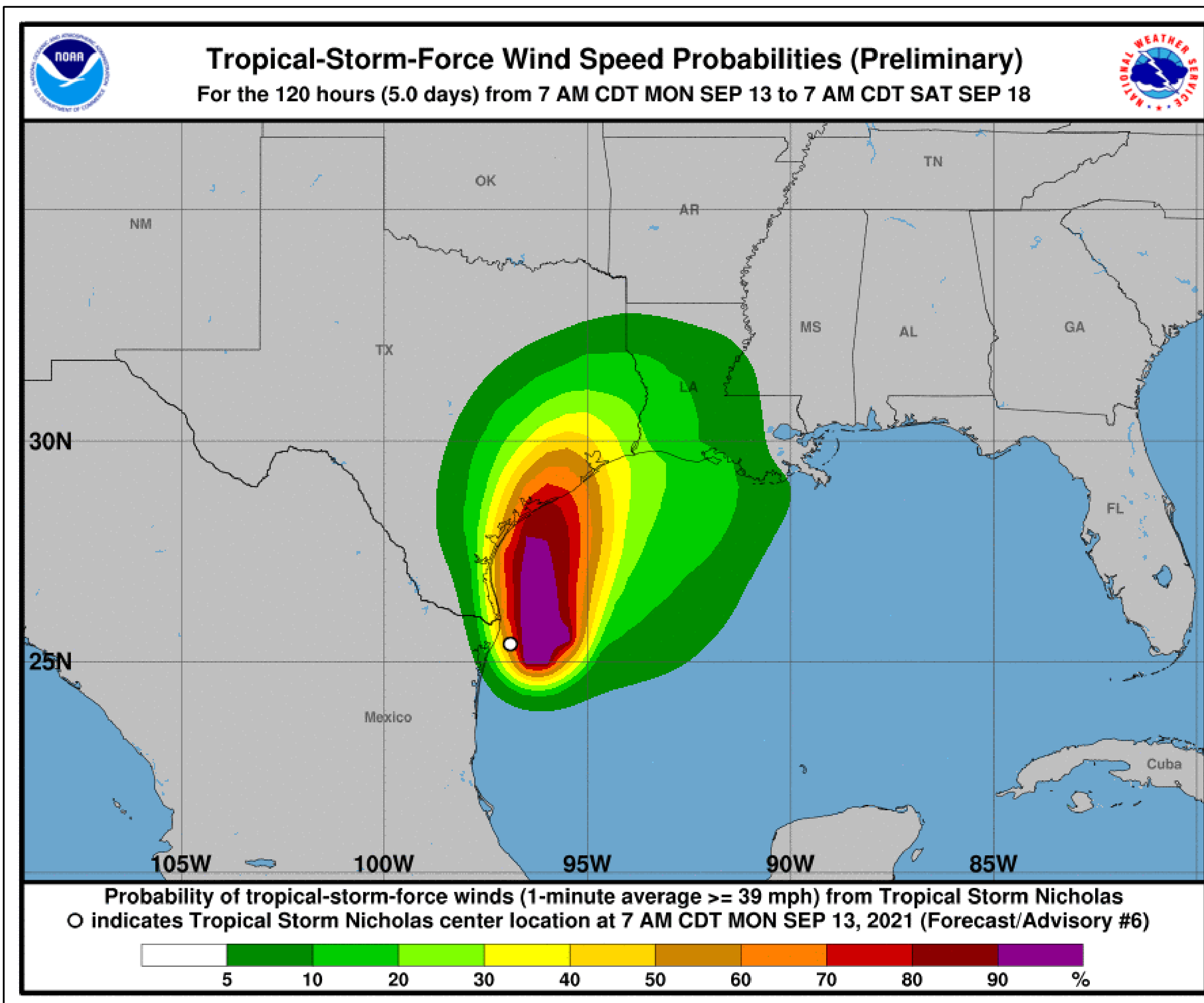
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

T.S. Wind Speed Probabilities

Tropical Storm Nicholas



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- Corpus Christi: 20%
- Rockport: 50%
- Port O'Connor: 90%
- Matagorda Bay: 90%
- Freeport: 70%
- Houston: 60%
- Galveston: 50%
- High Island: 30%
- Port Arthur: 20%
- Cameron, LA: 20%

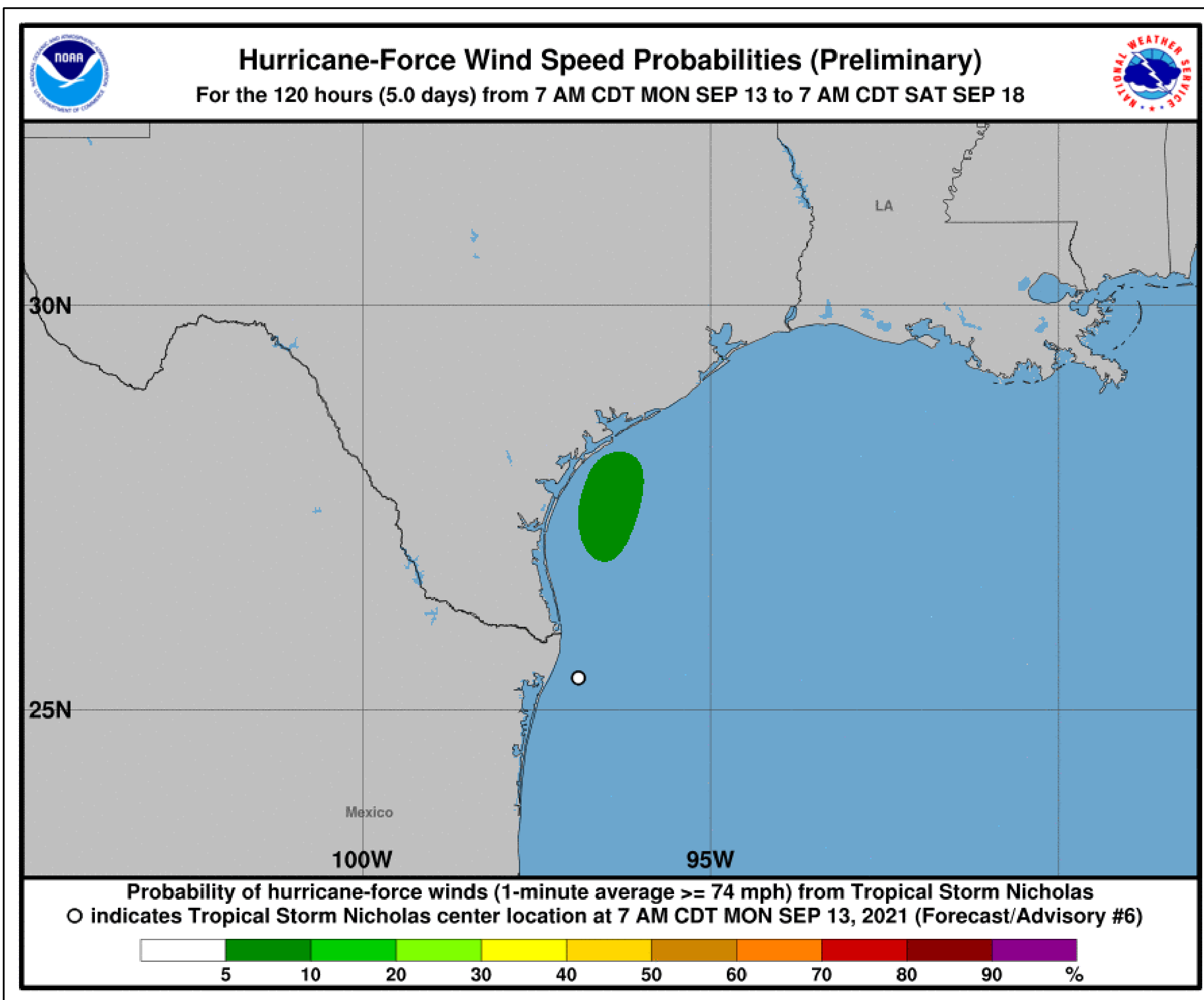
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color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

Hurricane Wind Speed Probabilities

Tropical Storm Nicholas



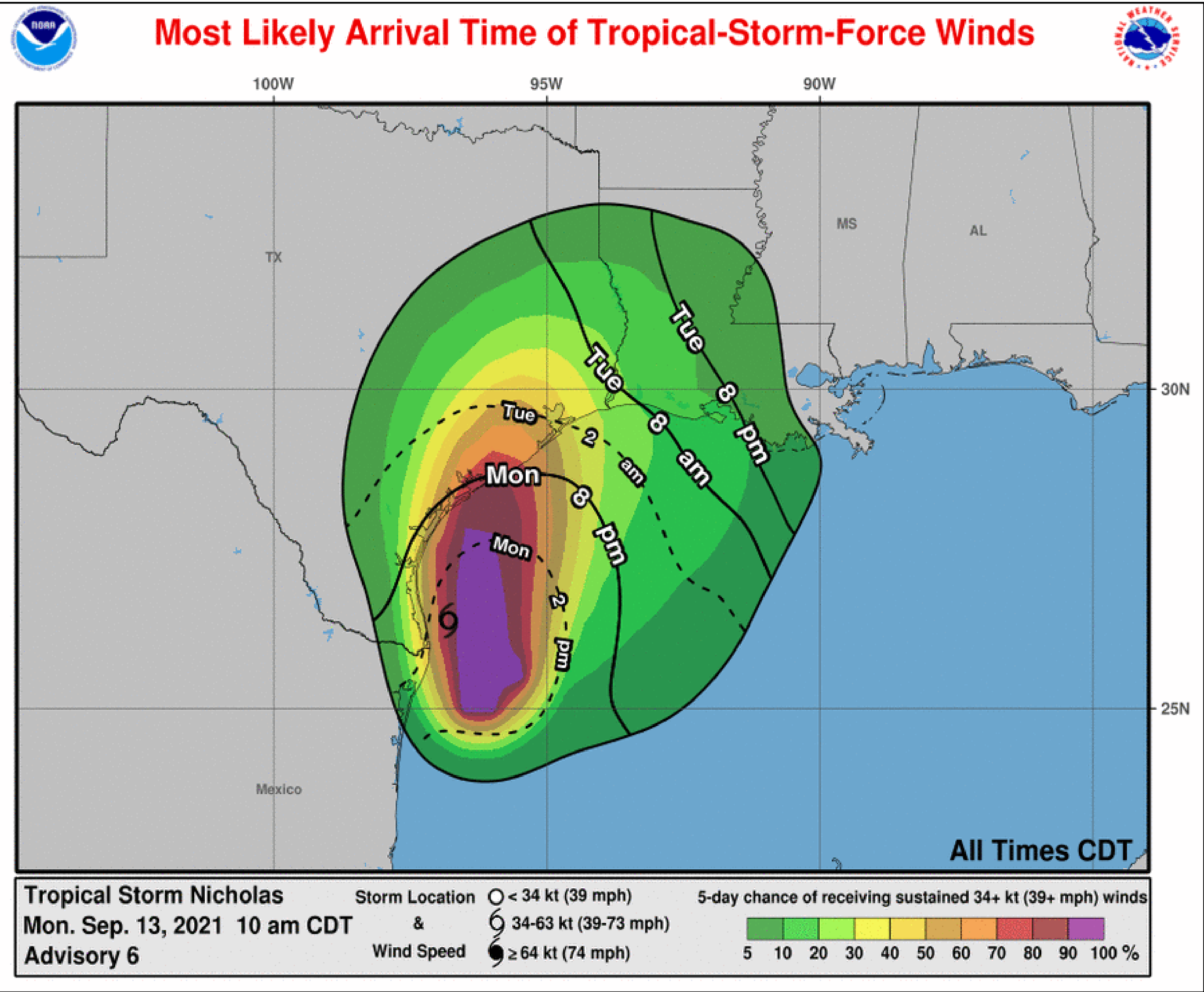
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- Port O'Connor: 5%
- Matagorda Bay: 5%
- Freeport: 5%
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow 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 Nicholas



- Lower Texas Coast: Now
 - Corpus Christi/Rockport: This afternoon
 - Port O'Connor/Matagorda Bay: This evening
 - Houston/Galveston: before dawn Tue
 - Port Arthur/Cameron, LA: 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.

Time of Departure

Tropical Storm Nicholas



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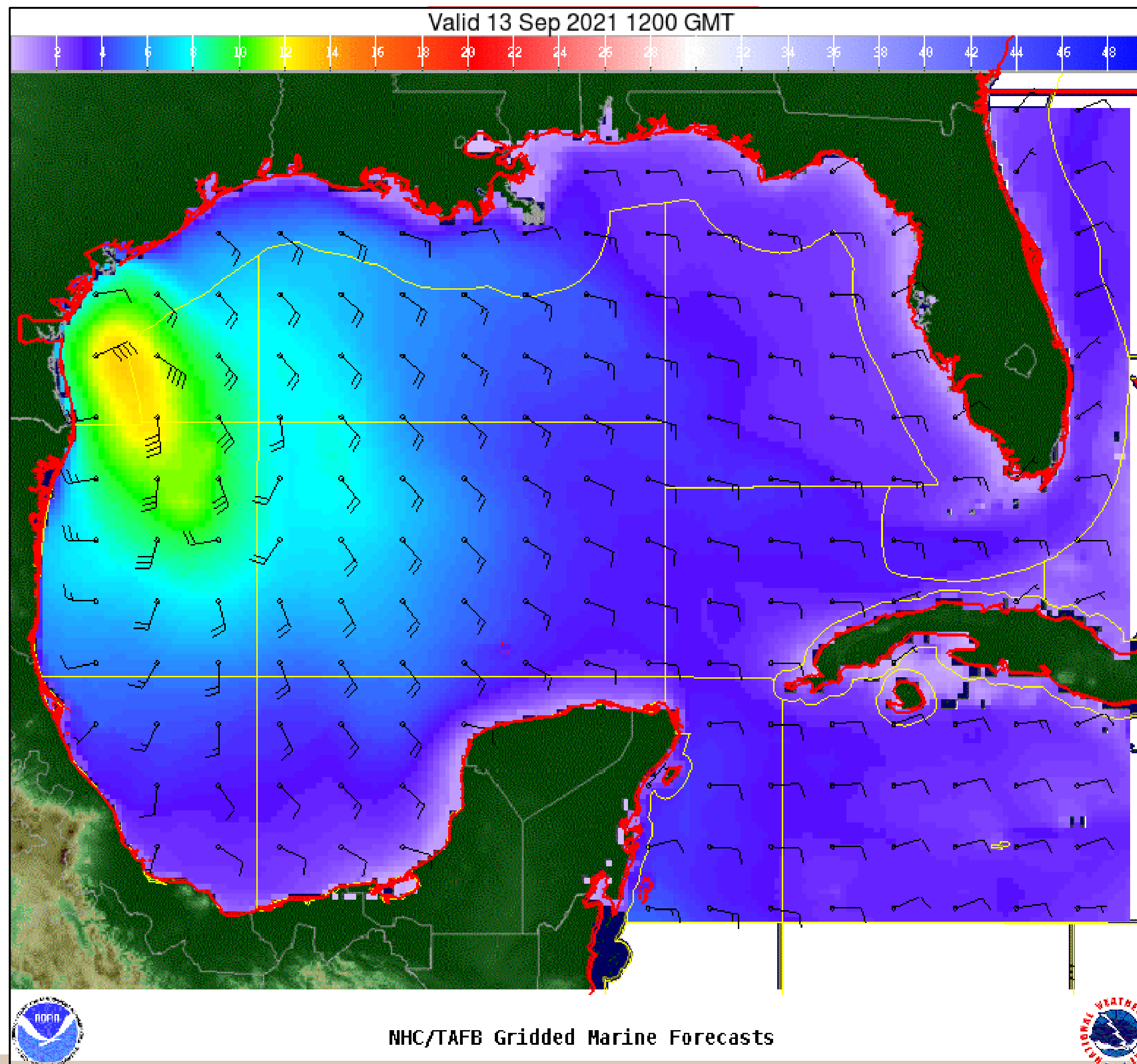
- Corpus Christi/Rockport: Sunset today
- Port O'Connor/Matagorda Bay: pre-dawn Tuesday
- Houston/Galveston: noon Tuesday
- Port Arthur/Cameron, LA: Tuesday afternoon

Wind And Waves

Tropical Storm Nicholas



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Current Conditions

7 AM CDT Today

Peak Winds: 50 KT

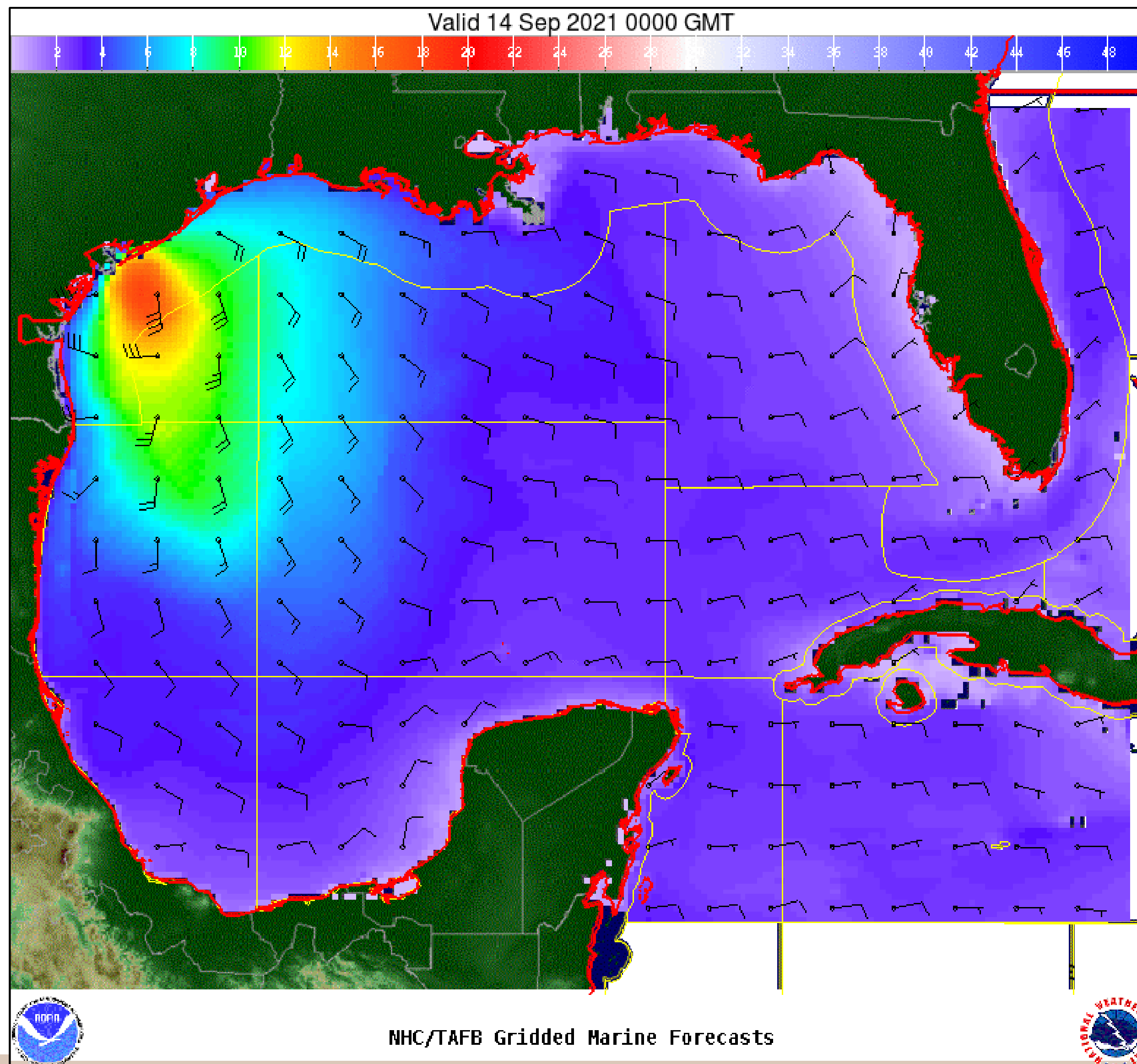
Peak Seas: 20 FT

Wind And Waves

Tropical Storm Nicholas



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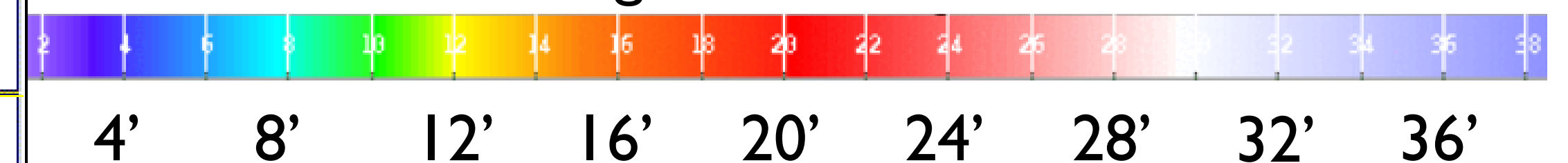
12 Hour Forecast

7 PM CDT Today

Peak Winds: 60 KT

Peak Seas: 20 FT

■ Wave heights are in feet

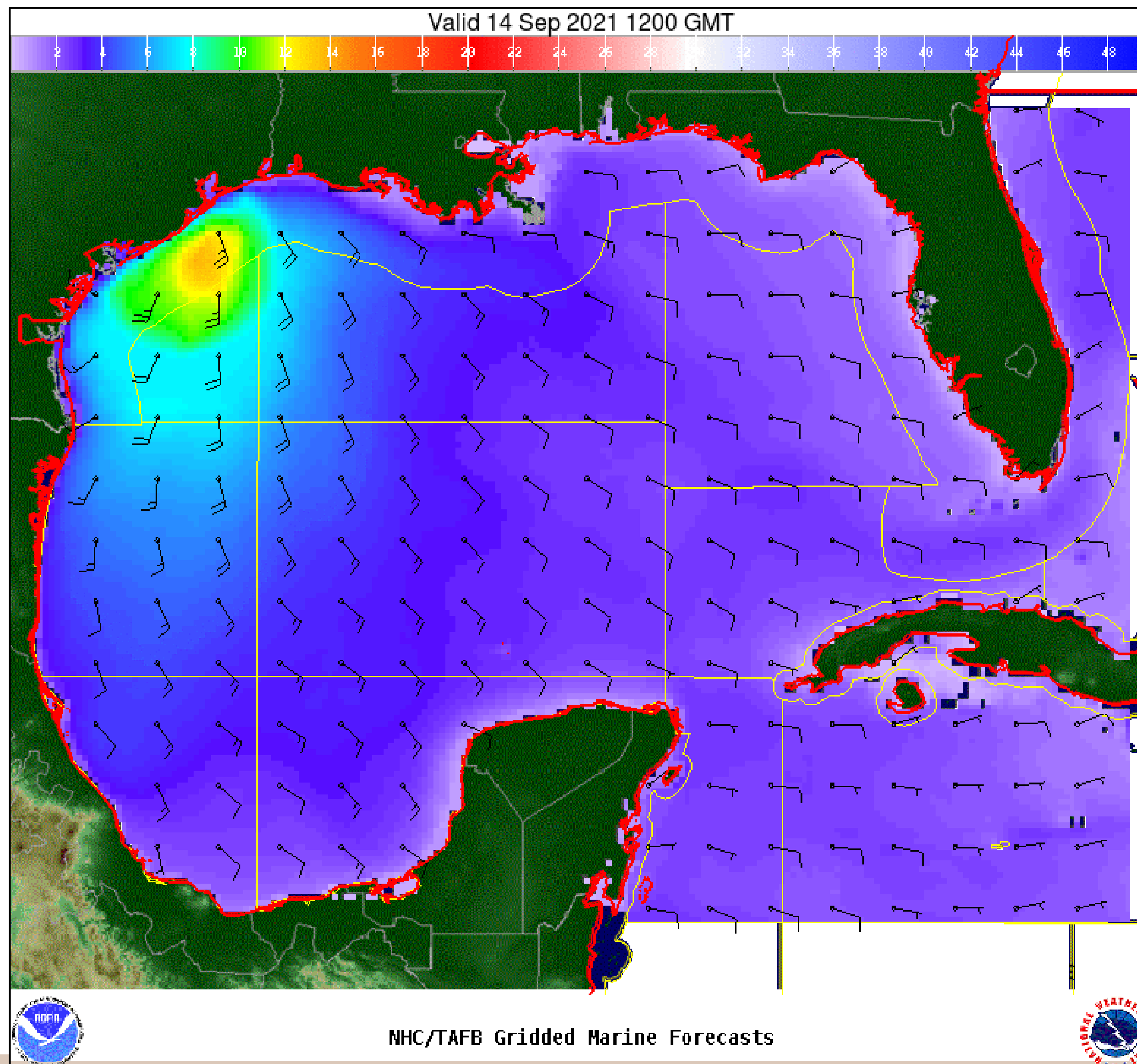


Wind And Waves

Tropical Storm Nicholas



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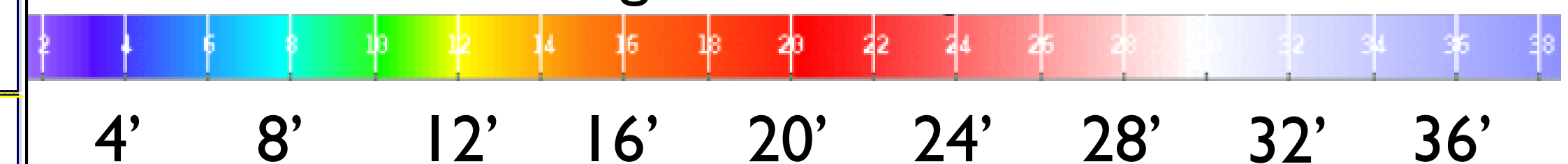
24 Hour Forecast

7 AM CDT Tuesday

Peak Winds: 45 KT

Peak Seas: 12 FT

■ Wave heights are in feet

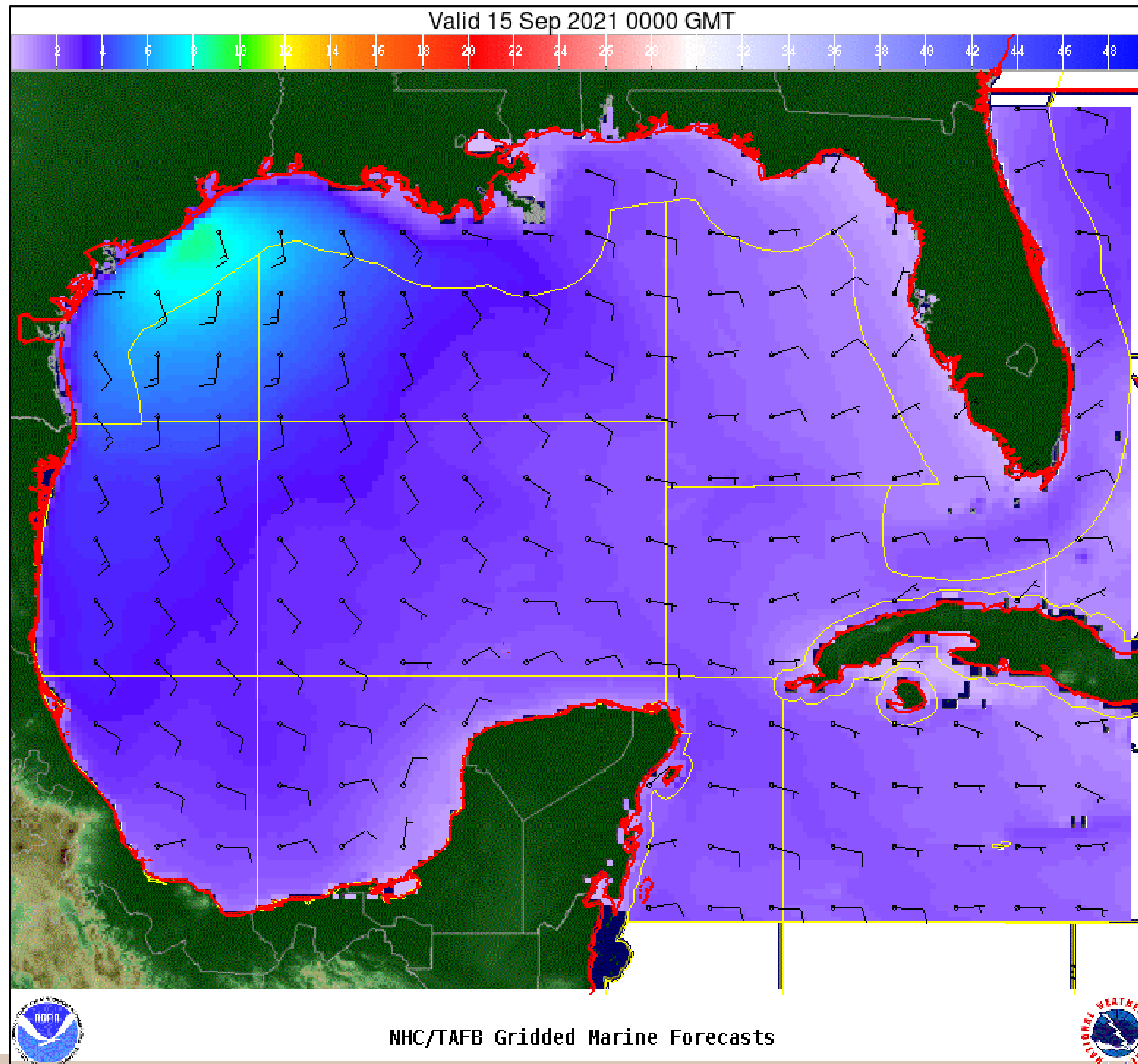


Wind And Waves

Tropical Storm Nicholas



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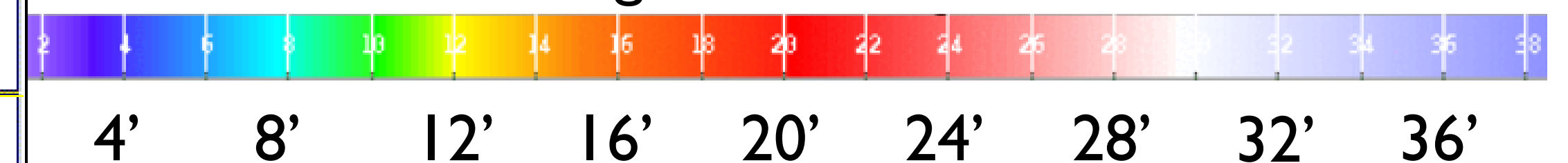
36 Hour Forecast

7PM CDT Tuesday

Peak Winds: 30 KT

Peak Seas: 8 FT

■ Wave heights are in feet

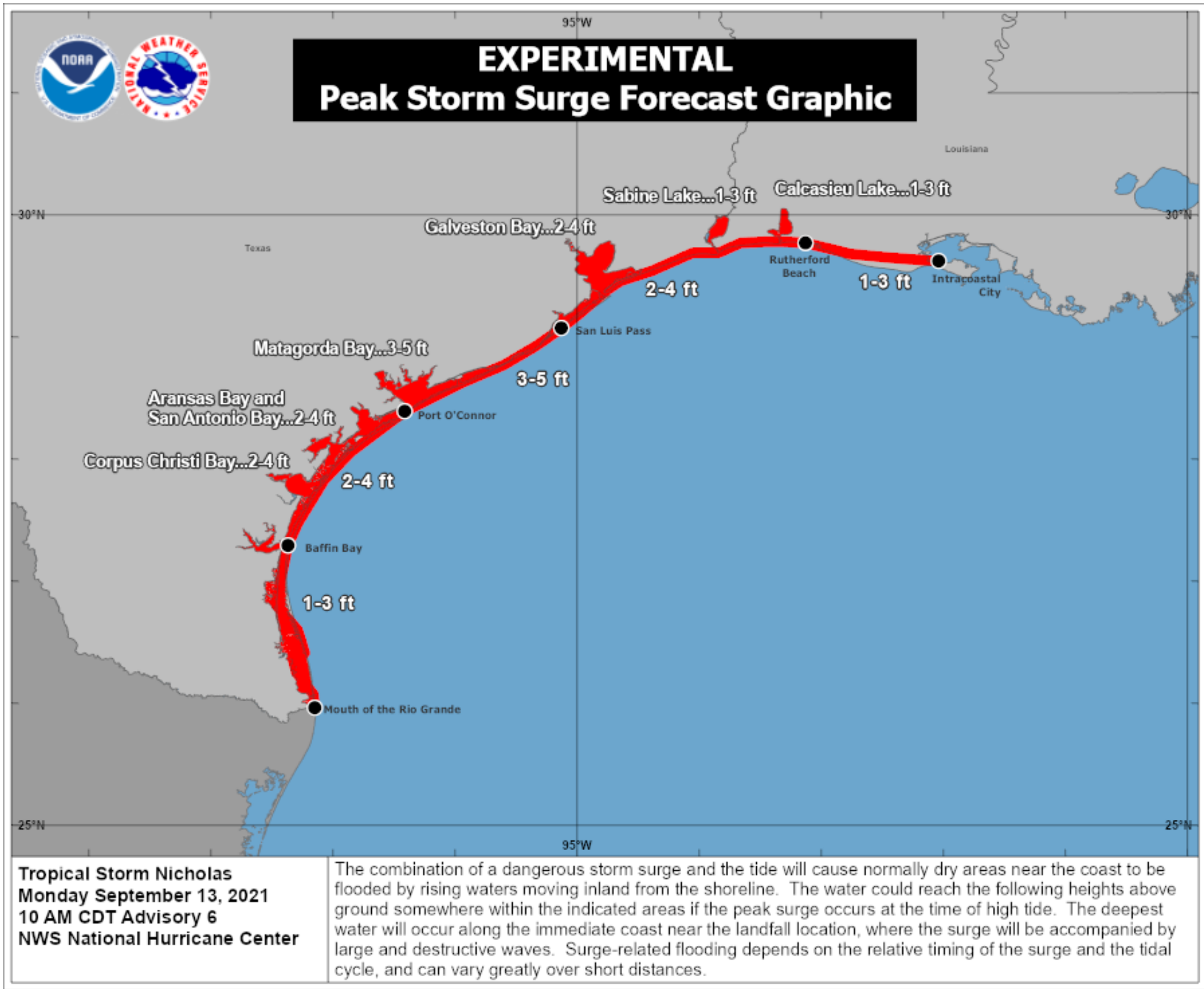


Potential Peak Storm Surge / Watches and Warnings

Tropical Storm Nicholas



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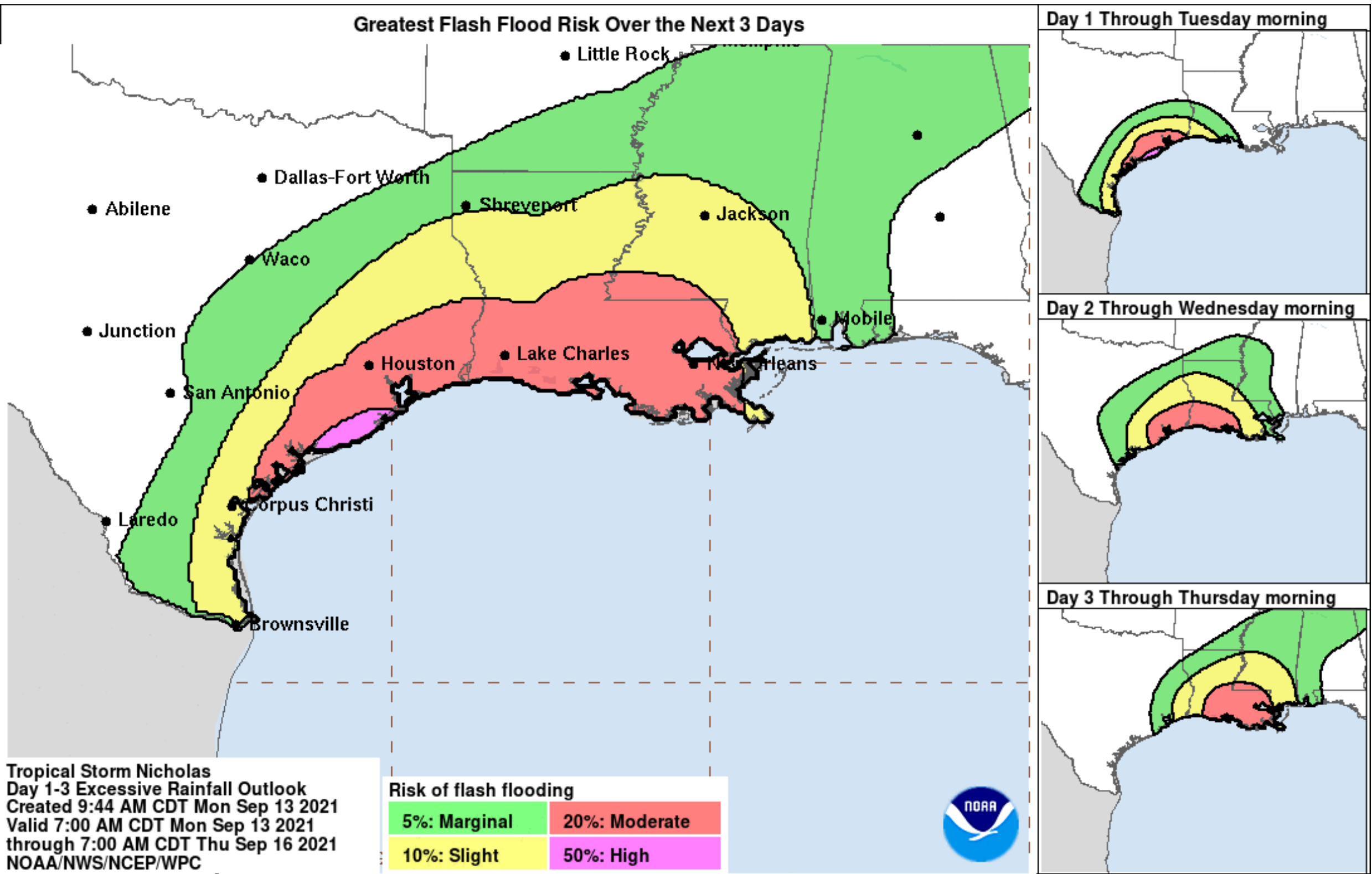
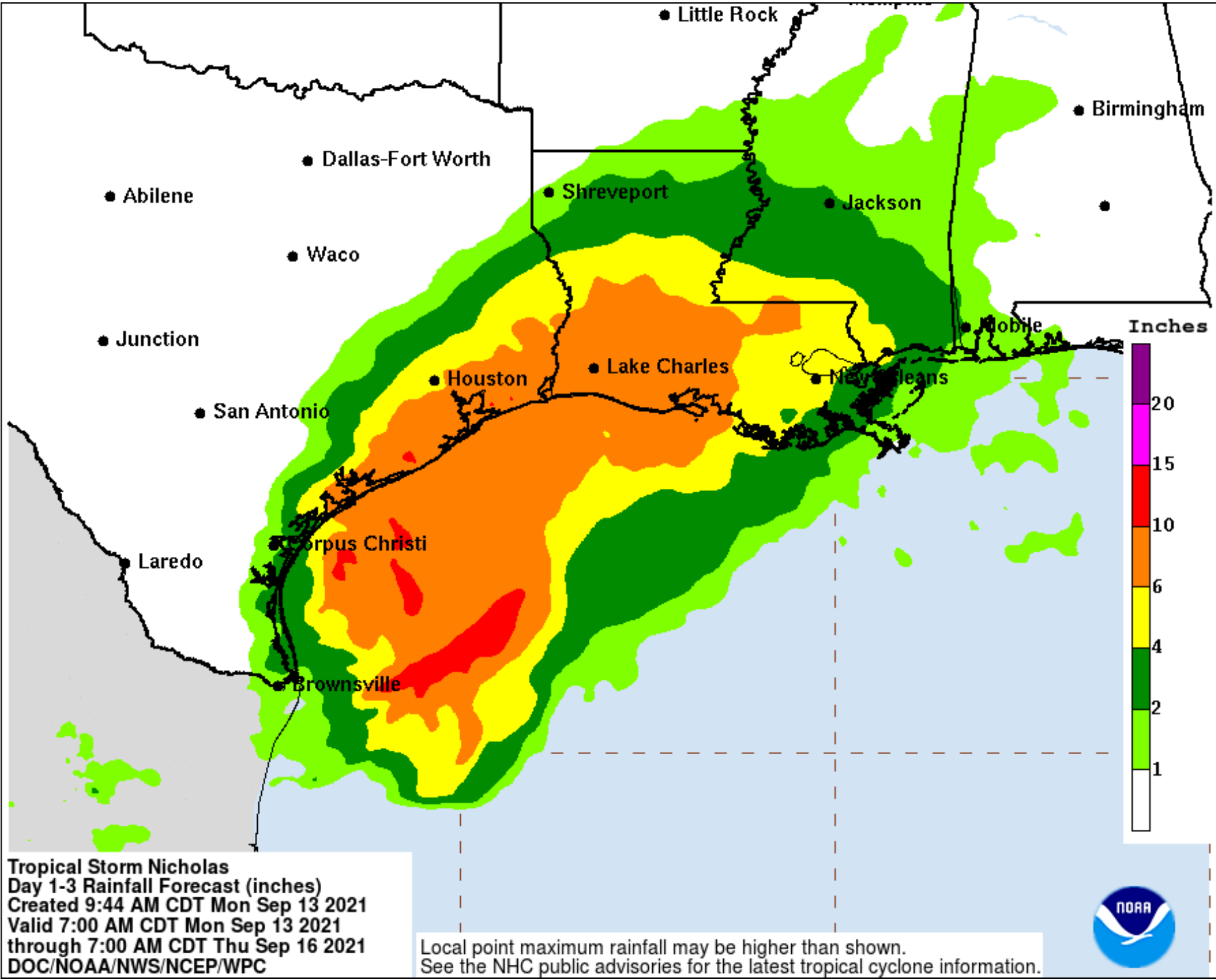


Expected Storm Total Rainfall and Chance of Rainfall Flooding



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NWS National Hurricane Center

Tropical Storm Nicholas Images from NWS Weather Predication Center



- Rainfall through Wednesday Night
 - 6 to 12 inches with isolated amounts approaching 20 inches

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

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

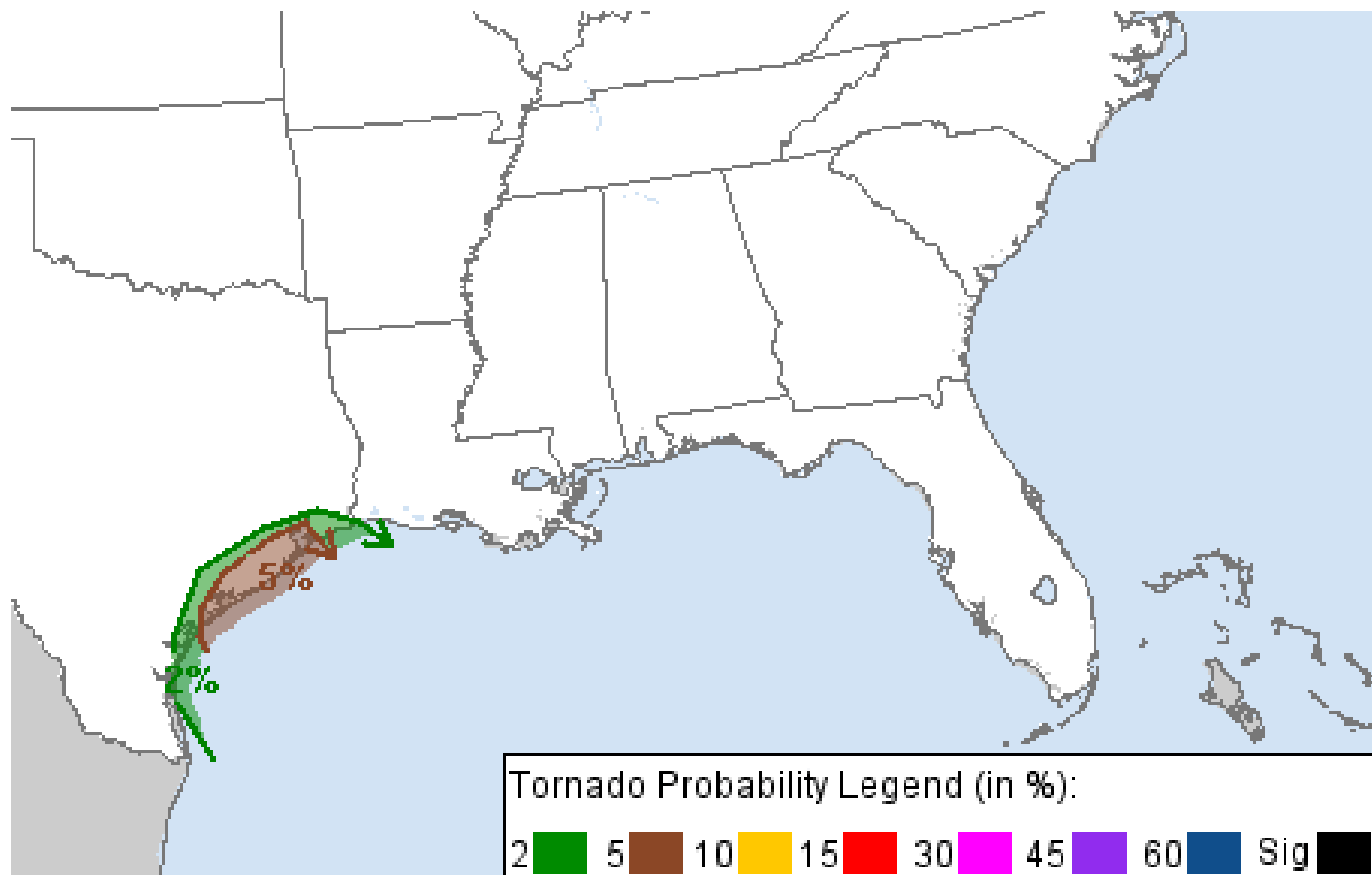
Refer to map legend for Valid Time

Tornado Outlook – Day 1

Tropical Storm Nicholas Image from NWS Storm Prediction Center



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NWS National Hurricane Center



- Slight Risk for tornadoes
 - Mainly tonight
 - Middle and Upper Texas coast

Key Messages

Tropical Storm Nicholas

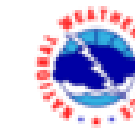


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Key Messages for Tropical Storm Nicholas

Advisory 6: 10:00 AM CDT Mon Sep 13, 2021

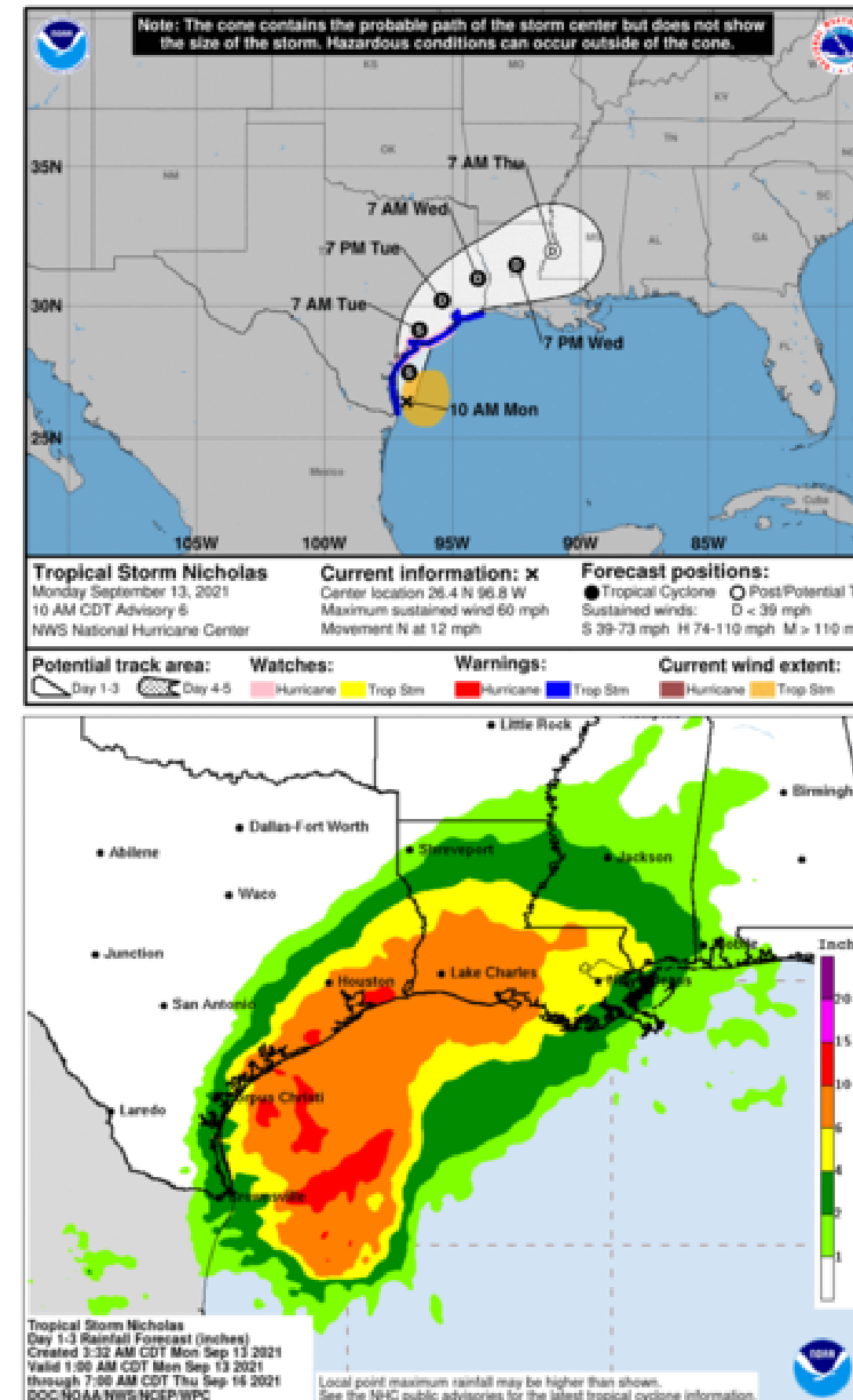


1. Heavy rainfall will impact portions of the Texas and Louisiana coasts through the middle of the week. Significant rainfall amounts are possible, potentially resulting in areas of life-threatening flash and urban flooding, especially in highly urbanized metropolitan areas. Minor to isolated moderate river flooding is also expected.

2. There is the danger of life-threatening storm surge inundation along the coast of Texas from Port Aransas to Sabine Pass. Residents in these areas should follow any advice given by local officials.

3. Nicholas is forecast to approach the middle Texas coast as a strong tropical storm by this evening, and could be near hurricane intensity at landfall. Tropical storm conditions are expected along portions of the middle Texas coast beginning this afternoon, with hurricane conditions possible from Port Aransas to San Luis Pass by late afternoon through tonight.

4. Tropical storm conditions are expected along portions of the coast of south Texas into the afternoon.



For more information go to hurricanes.gov

Marine Key Messages:

- Seas of up to 20' through early Tue mainly within 90 nm N and E of center
- Winds highest N and E side of the storm with expected 60 kt winds before landfall overnight



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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



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