



# TROPICAL STORM HANNA BRIEFING

10:30 AM CT

Friday, July 24, 2020

*Prepared by: Melissa Huffman, WFO Corpus Christi*

What has changed: **Forecast Intensity at Landfall Increased Slightly Overnight.**

*Disclaimer: The information contained within is time-sensitive. View latest information at [www.hurricanes.gov](http://www.hurricanes.gov).*



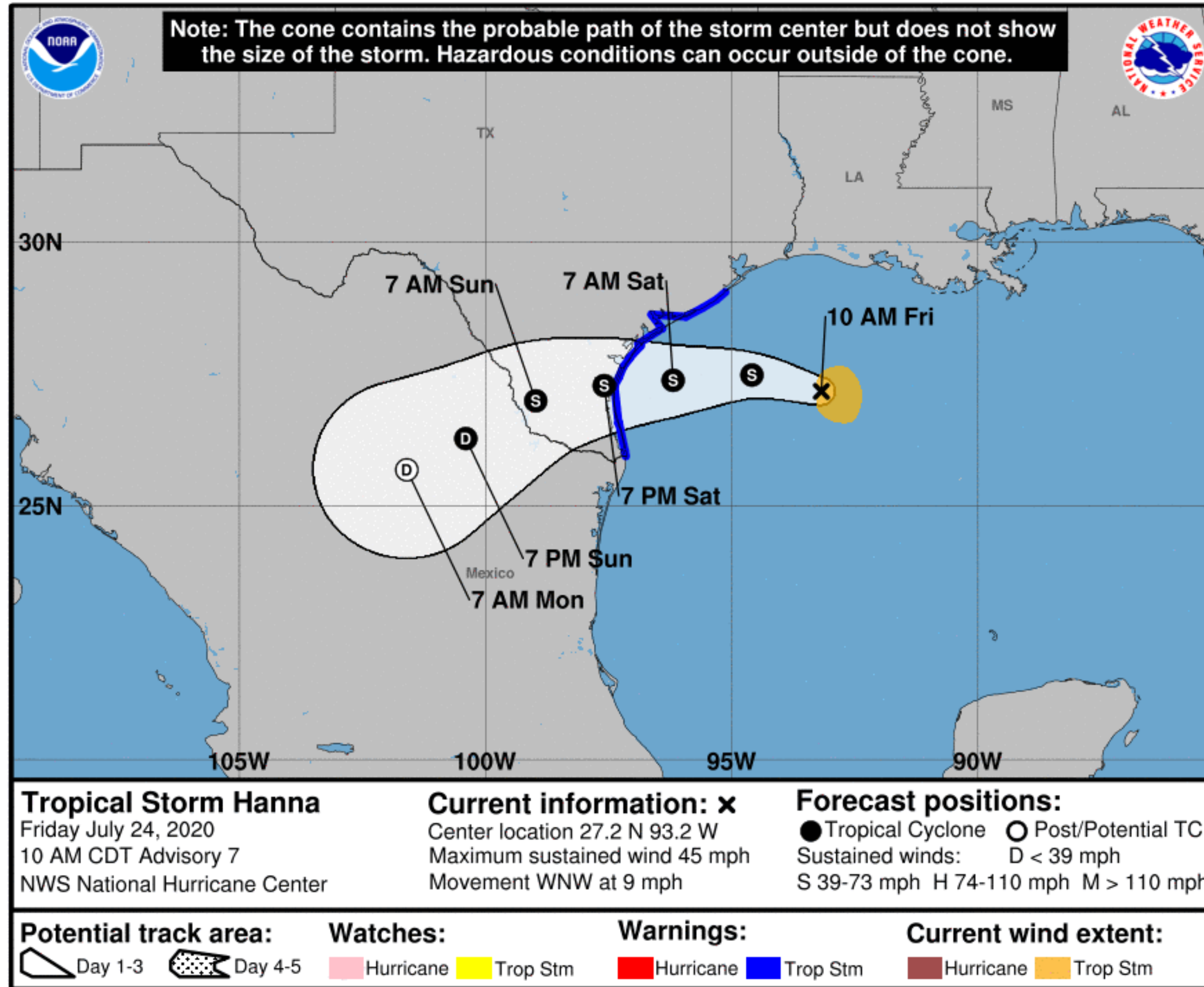
- **Tropical Storm Warnings are in effect from Mouth of the Rio Grande to San Louis Pass**
  - Hanna is forecast to become a strong tropical storm before making landfall on the South Texas Coast on Saturday. **Wind gusts to Hurricane force will be possible near the center!**
  - Wind impacts could include some structural damage to homes and unanchored mobile homes, downed trees and power lines
- **A Flash Flood Watch has been issued for most of South Texas**
  - Slow storm motion after landfall could result in several days of heavy rainfall and a potential for dangerous flooding!
    - Impacts could include several evacuations or water rescues and the flooding of some structures
- Storm tides with 2 to 3 ft inundation possible along Gulf-facing beaches
- Isolated tornadoes possible Saturday

# Situation Overview

## Tropical Storm Hanna



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- Tropical Storm Warning is now in effect from Mouth of Rio Grande to San Luis Pass.
- Hanna forecast to strengthen to a strong tropical storm before making landfall along the South Texas coast on Saturday.
- Track shifted slightly north overnight, although the exact landfall location is still uncertain.
- Wind gusts to Hurricane Force will be possible near the center.

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

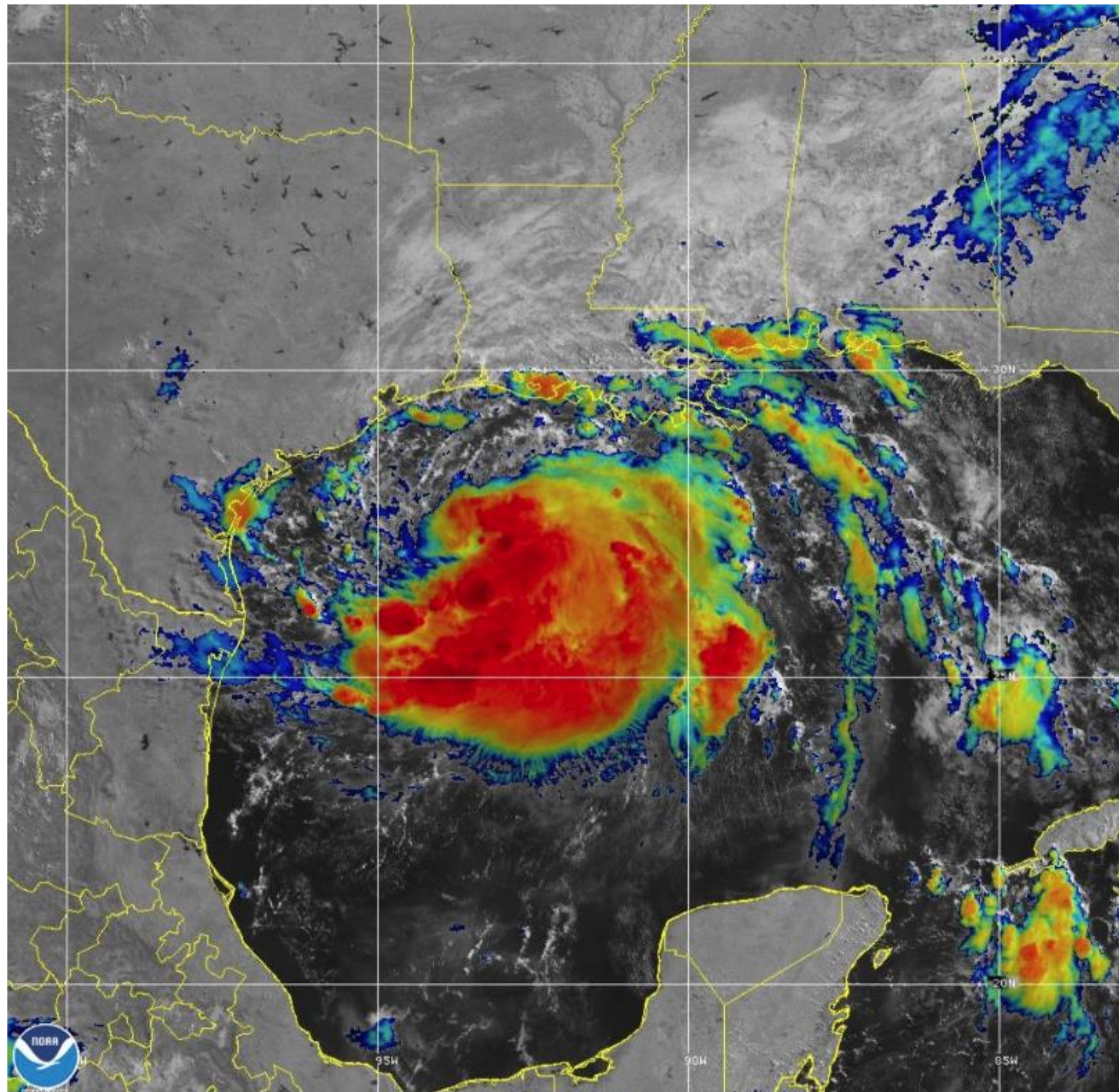


# Current Satellite View

Tropical Storm Hanna



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24 Jul 2020 14:30Z NOAA/NESDIS/STAR GOES-East Sandwich

- Satellite view of Hanna shows considerable thunderstorm development near the center and more cyclonic structure with good outflow aloft which indicates strengthening
- Atmospheric conditions are favorable for continued strengthening up until landfall in ~24 hours

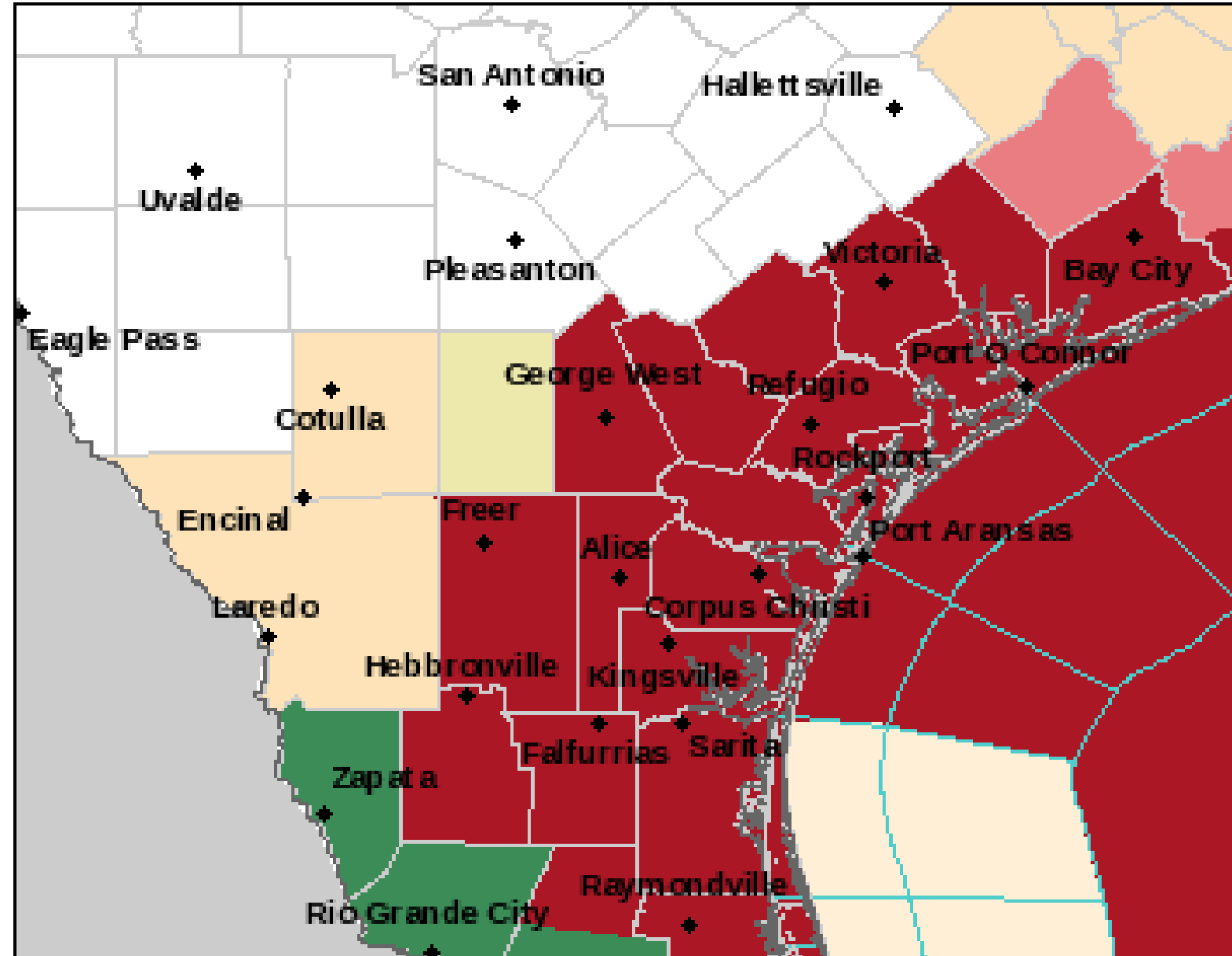


# Active Watches and Warnings



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Tropical Storm Hanna



[Watches, Warnings & Advisories](#)

Zoom Out

- [Tropical Storm Warning](#) [Dark Red]
- [Flash Flood Watch](#) [Green]
- [Tropical Storm Watch](#) [Light Red]
- [Hurricane Local Statement](#) [Yellow]
- [Coastal Flood Advisory](#) [Light Green]
- [Rip Current Statement](#) [Cyan]
- [Special Weather Statement](#) [Orange]
- [Marine Weather Statement](#) [Light Orange]
- [Hazardous Weather Outlook](#) [Light Yellow]

Last Map Update: Fri, Jul. 24, 2020 at 10:01:12 am CDT

### Flash Flood Watch

In Effect From Sat Morning Through Sun Evening

- Total rainfall: 4-8"
- Locally higher amounts possible up to 12".

**Impacts:**

- Small creeks & streams may rise out of their banks
- Low-lying areas, esp. in urban areas, may easily flood.

- Tropical Storm Warning is now in effect from Mouth of Rio Grande to San Luis Pass.
- A Flash Flood Watch has been issued for most of South Texas



# Most Likely Time of Arrival

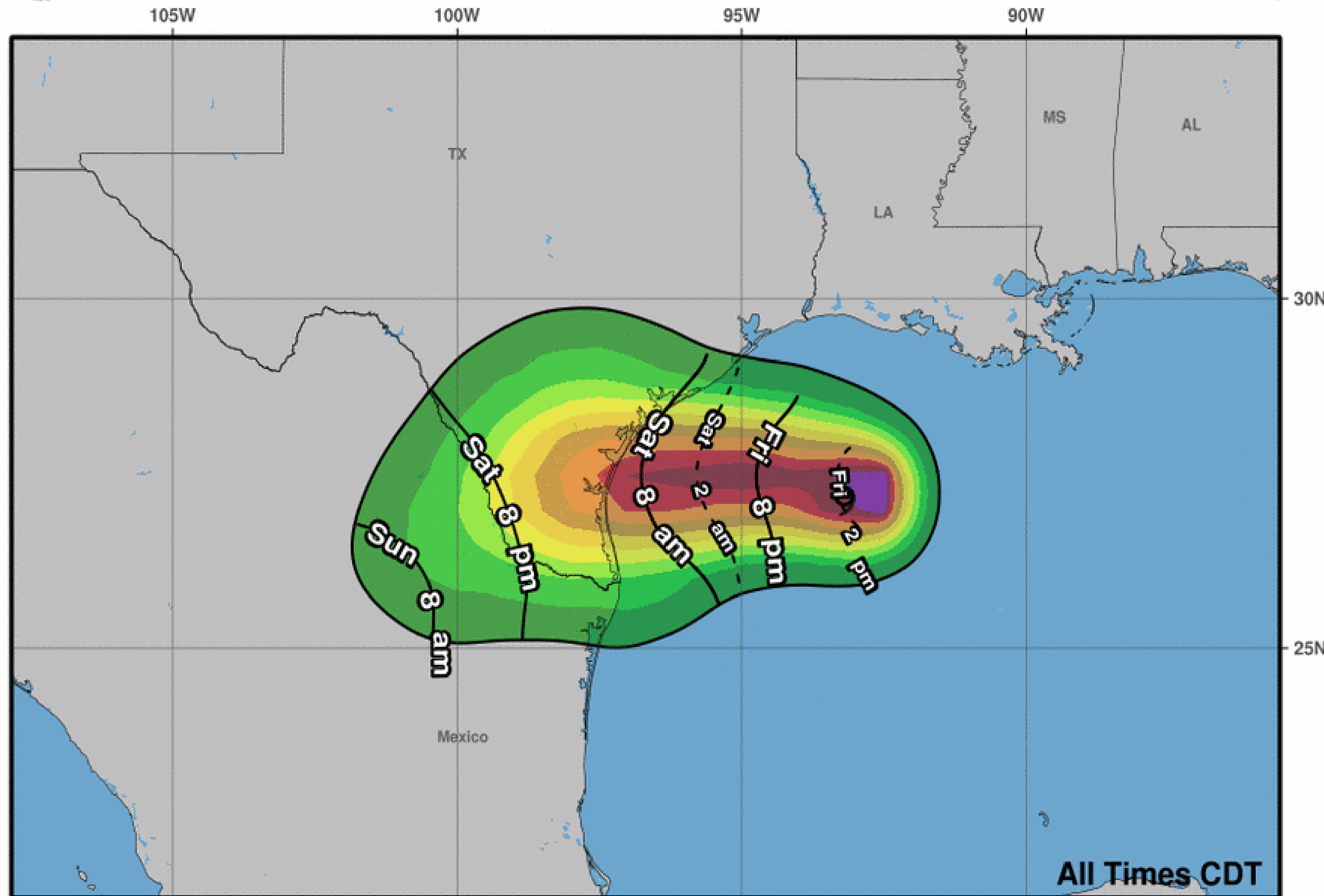
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## Most Likely Arrival Time of Tropical-Storm-Force Winds



Tropical Storm Hanna  
Fri. Jul. 24, 2020 10 am CDT  
Advisory 7

Storm Location ○ < 34 kt (39 mph)  
& ○ 34-63 kt (39-73 mph)  
Wind Speed ● ≥ 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds  
5 10 20 30 40 50 60 70 80 90 100 %

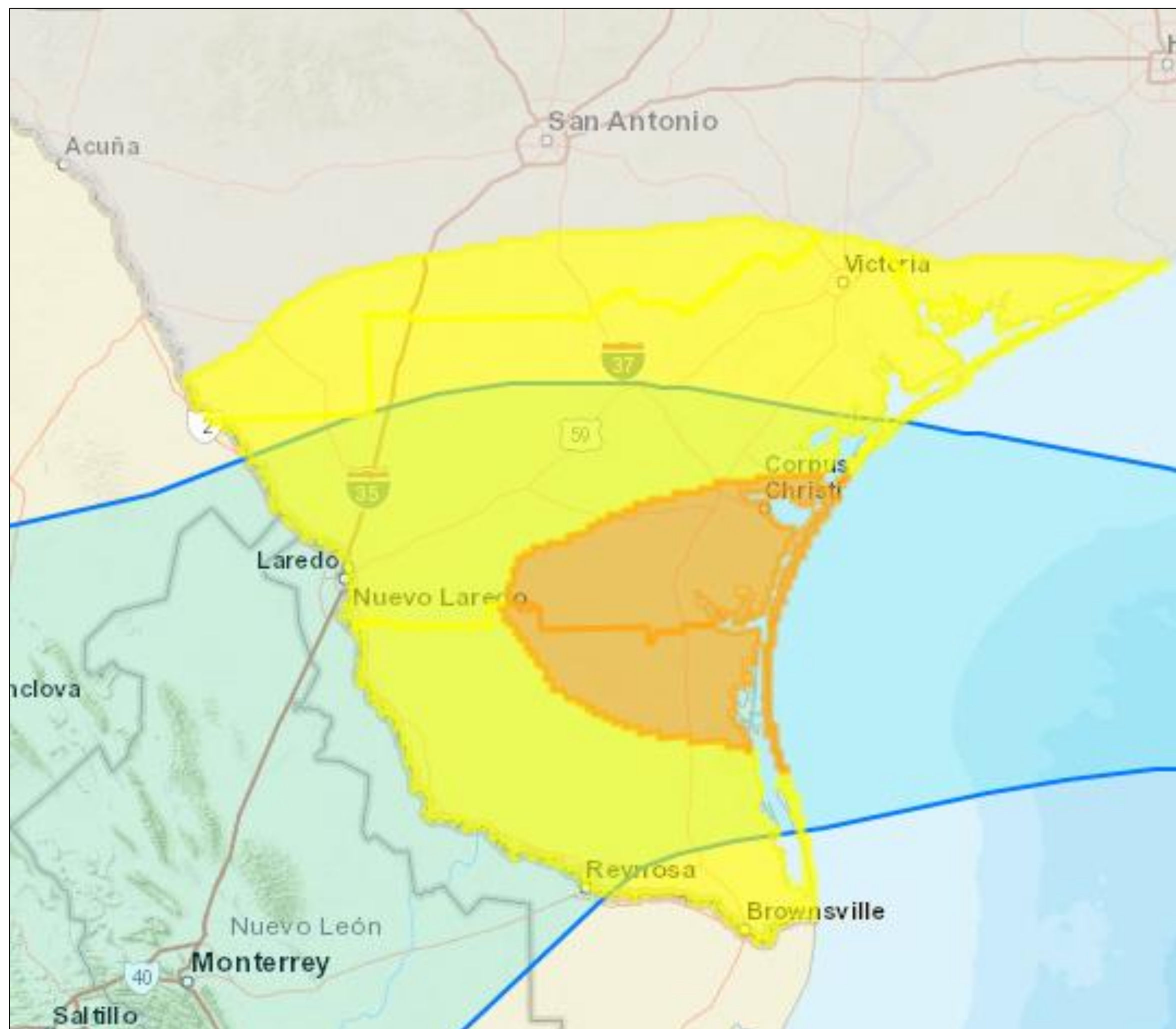
- Tropical-storm-force wind speed probabilities have **increased** since yesterdays briefing.
  - Locations with the highest probabilities (60+%) for tropical-storm-force winds include:
    - Kingsville
    - Corpus Christi
    - Port Aransas
- The most likely time of arrival of Tropical Storm Force Winds for the mid Texas coast is Saturday Morning.
  - However, this area could see Tropical Storm Force Winds as early as Friday Evening
  - Tropical-storm-force winds will be possible through Saturday afternoon and evening in the Tropical Storm Warning

# Wind Threat / Potential Impact



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Wind Threat

Potential for wind greater than 110 mph	Potential for wind 74 to 110 mph	Potential for wind 58 to 73 mph	Potential for wind 39 to 57 mph	Wind less than 39 mph
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## Wind Impacts:

- Maximum sustained wind of around 65 mph with gusts to hurricane force will be possible near the center of Hanna.
- There is a potential for some structural damage to homes and unanchored mobile homes, downed trees and power lines.

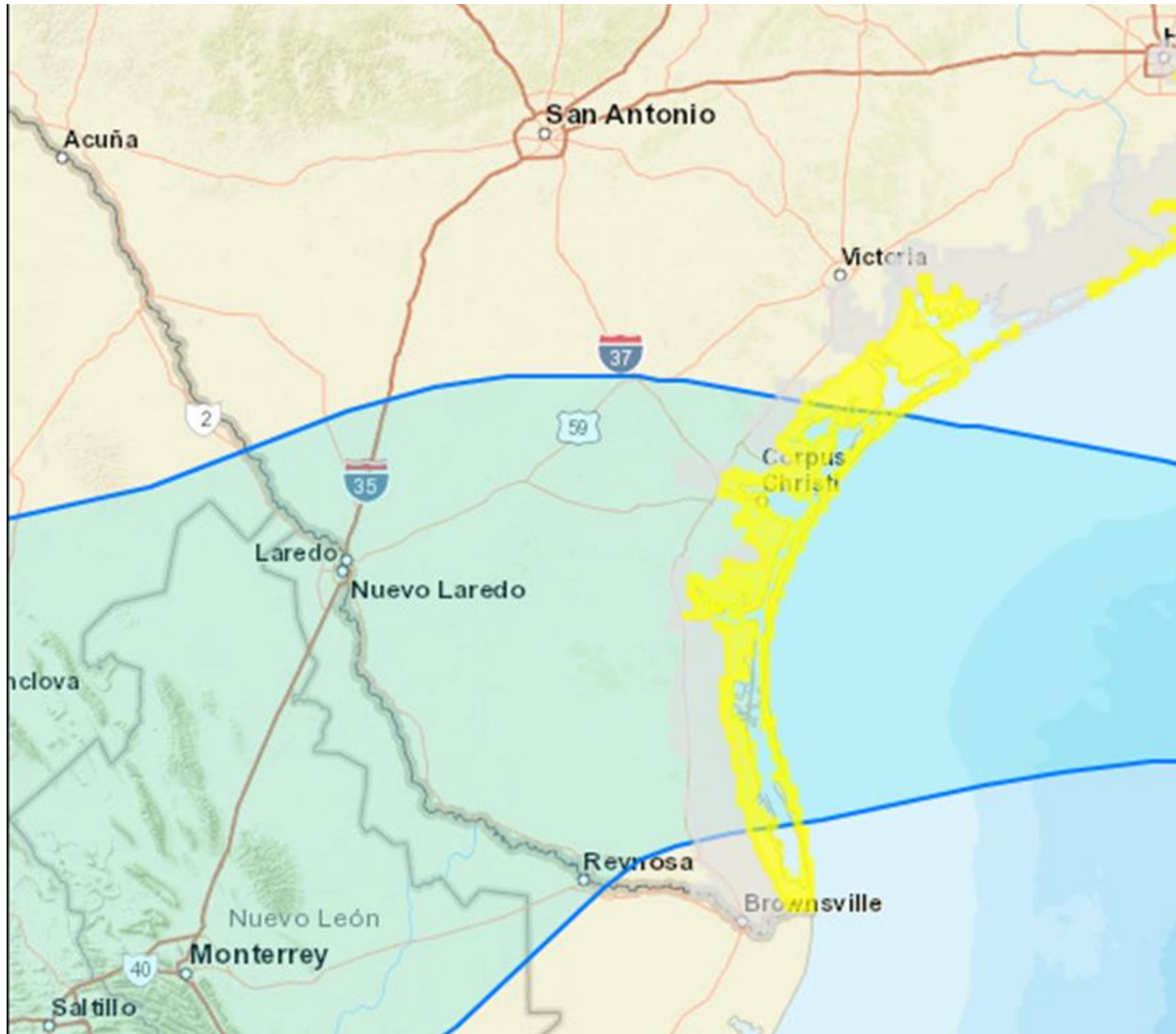


# Potential Storm Tide Impacts

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Storm Surge Threat

Potential for storm surge flooding greater than 9 ft above ground	Potential for storm surge flooding greater than 6 ft above ground	Potential for storm surge flooding greater than 3 ft above ground	Potential for storm surge flooding greater than 1 ft above ground	Little to no storm surge flooding
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## Storm Tides:

- 2 to 3 feet of inundation possible along beaches and bays of the Middle Texas Coast, especially along and to the right of where the center of Hanna crosses the coast.
  - A Storm Surge Warning is still possible with the 4 PM Advisory if intensity is increased
  - This would trigger Wireless Emergency Alert (WEA) activation if issued
- There is a potential for minor to moderate flooding of area beaches and beach access roads. Moderate dune erosion. Some damage to piers and marinas.



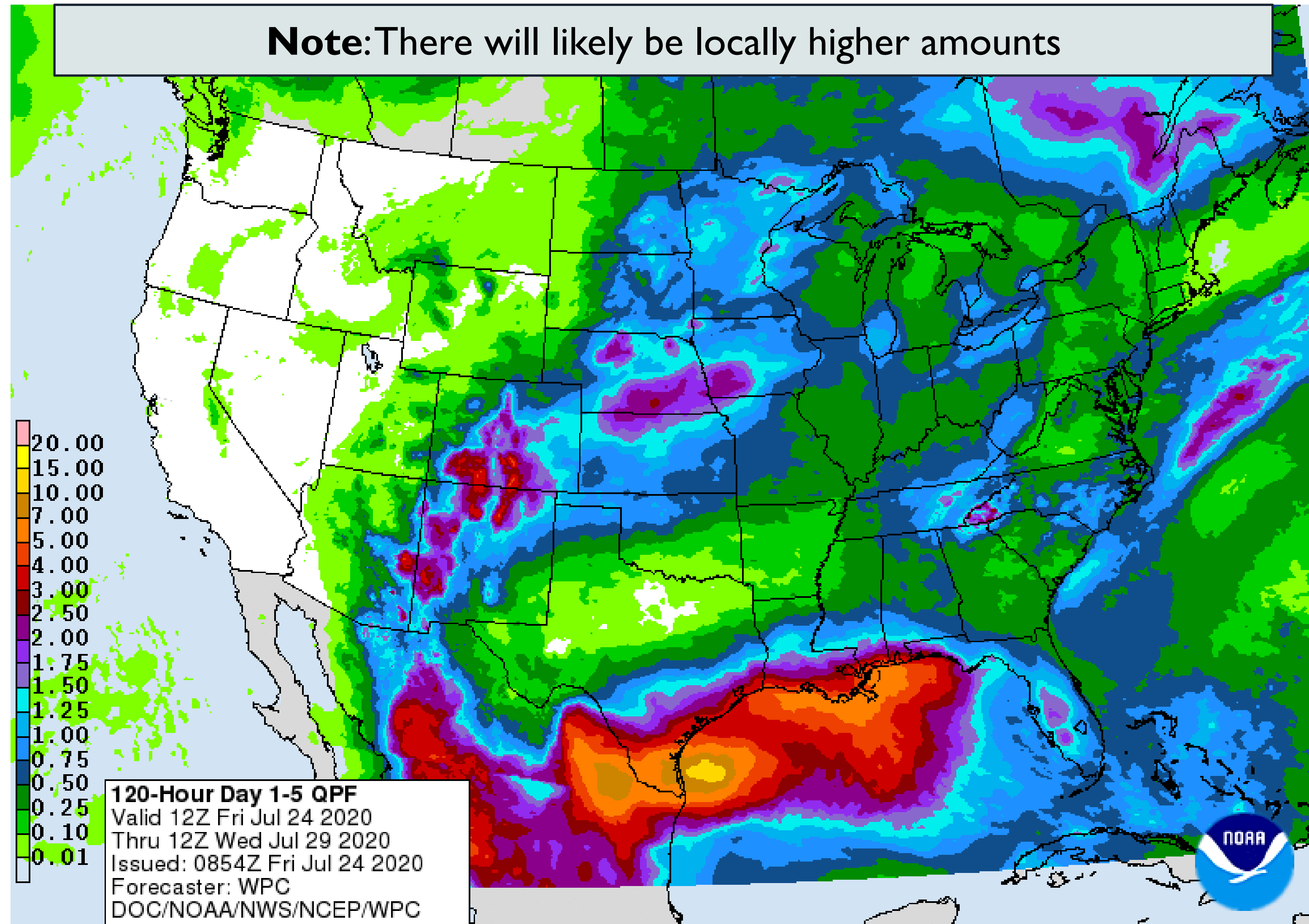
# Expected Storm Total Rainfall

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**Note:** There will likely be locally higher amounts



- Storm Total rainfall forecast valid today through Wednesday morning
- 4 to 8" of rain possible across South Texas with isolated totals higher amounts of 12"
  - The map to the left **does not** indicate where isolated higher amounts may occur
- Hanna may still slow down over Mexico.
  - This would result in an increasing flood threat for the Rio Grande.

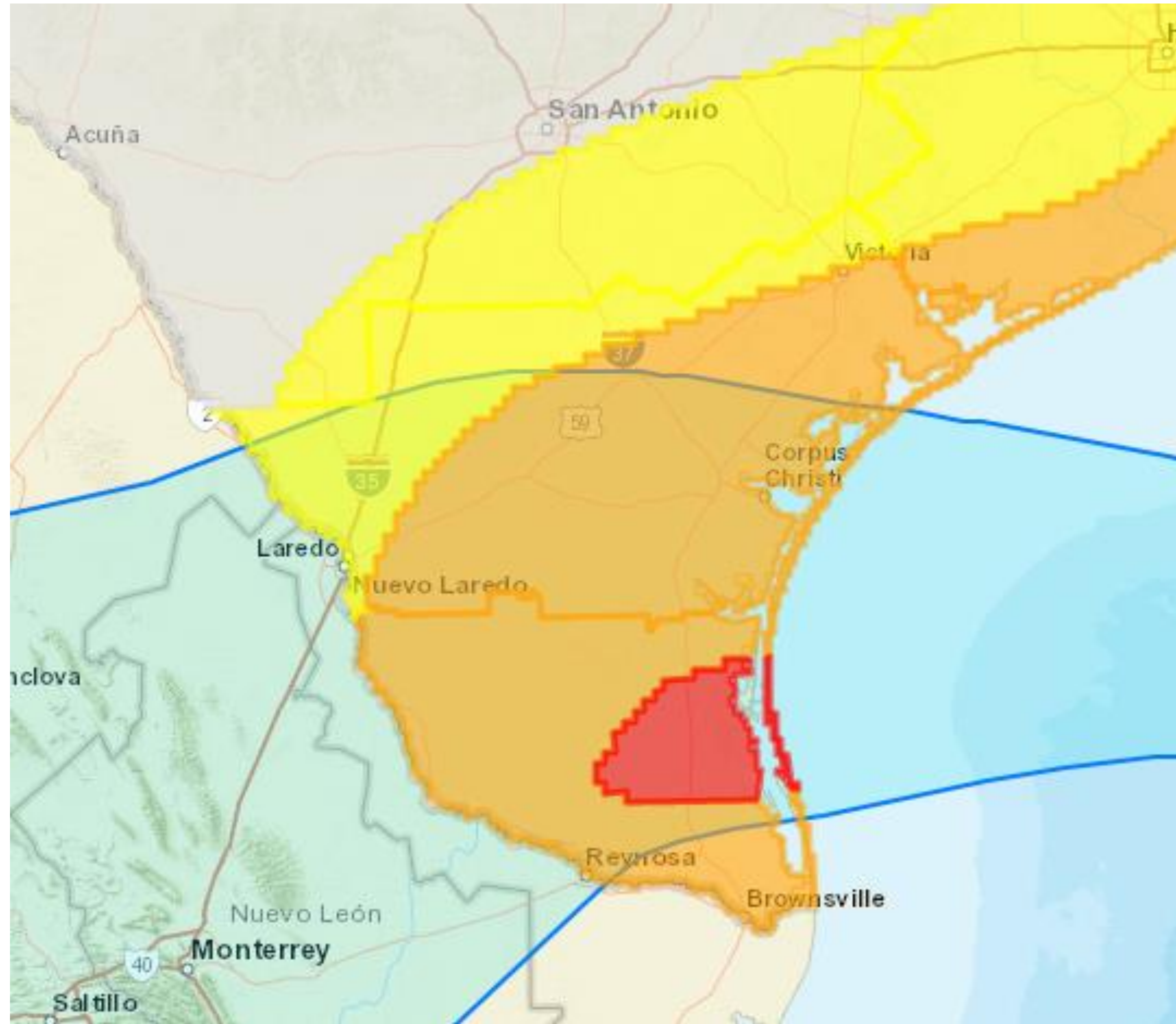


# Inland Flooding Impacts

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Flooding Rain Threat



## Flooding Rain Impacts:

- Heavy rain is expected to occur beginning tonight and continuing through Sunday.
- Due to the slow movement of Hanna, rainfall could be significant and dangerous flooding may result.
- Impacts could include several evacuations and the flooding of some structures



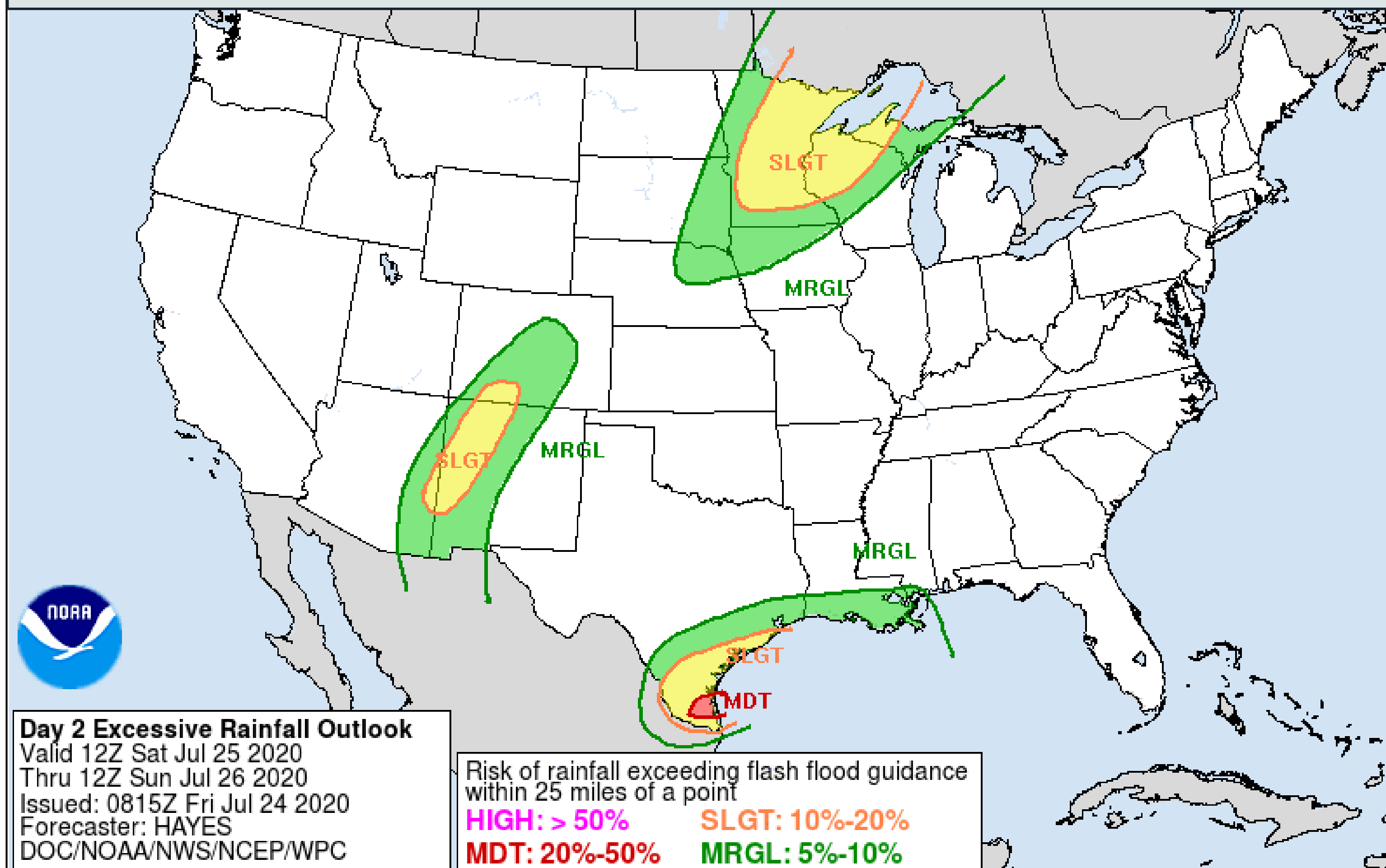
# Excessive Rainfall Outlook

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## Excessive Rainfall Outlook Valid Saturday



- Areas outlined in yellow have a the greatest potential for flash flooding on Saturday. Flood Threat will continue across South Texas on Sunday.
- Location of any river flood or flash flood threats will occur will be dependent on where rain bands set up and center of storm tracks.
- Heaviest rainfall often occurs at night!

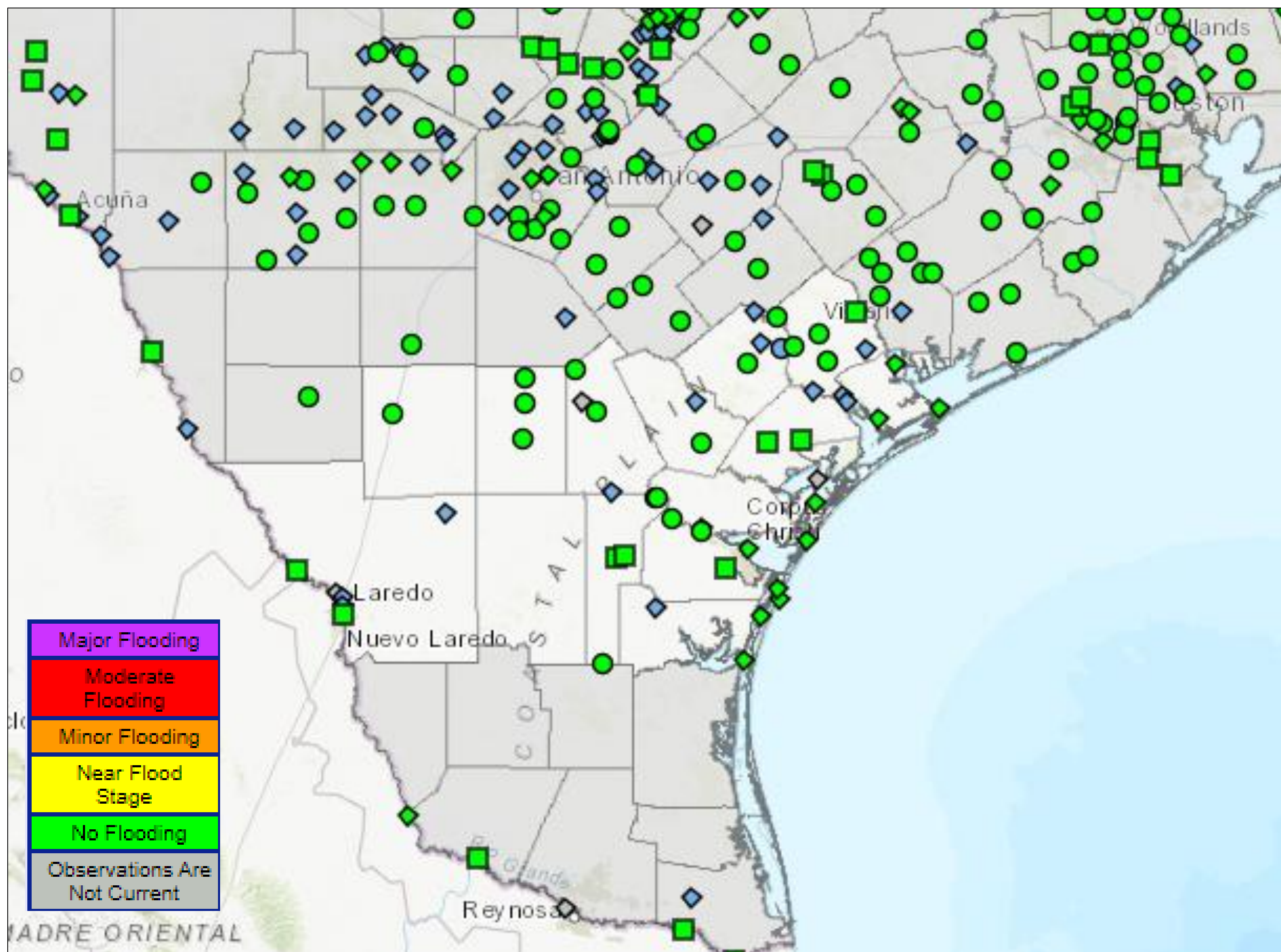


# Potential for River Flooding

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- All rivers are all currently running low due to dry conditions over the last month.
- However, predicted rainfall for this upcoming weekend could result in flooding!
  - The Rio Grande and Nueces River will be two rivers to watch

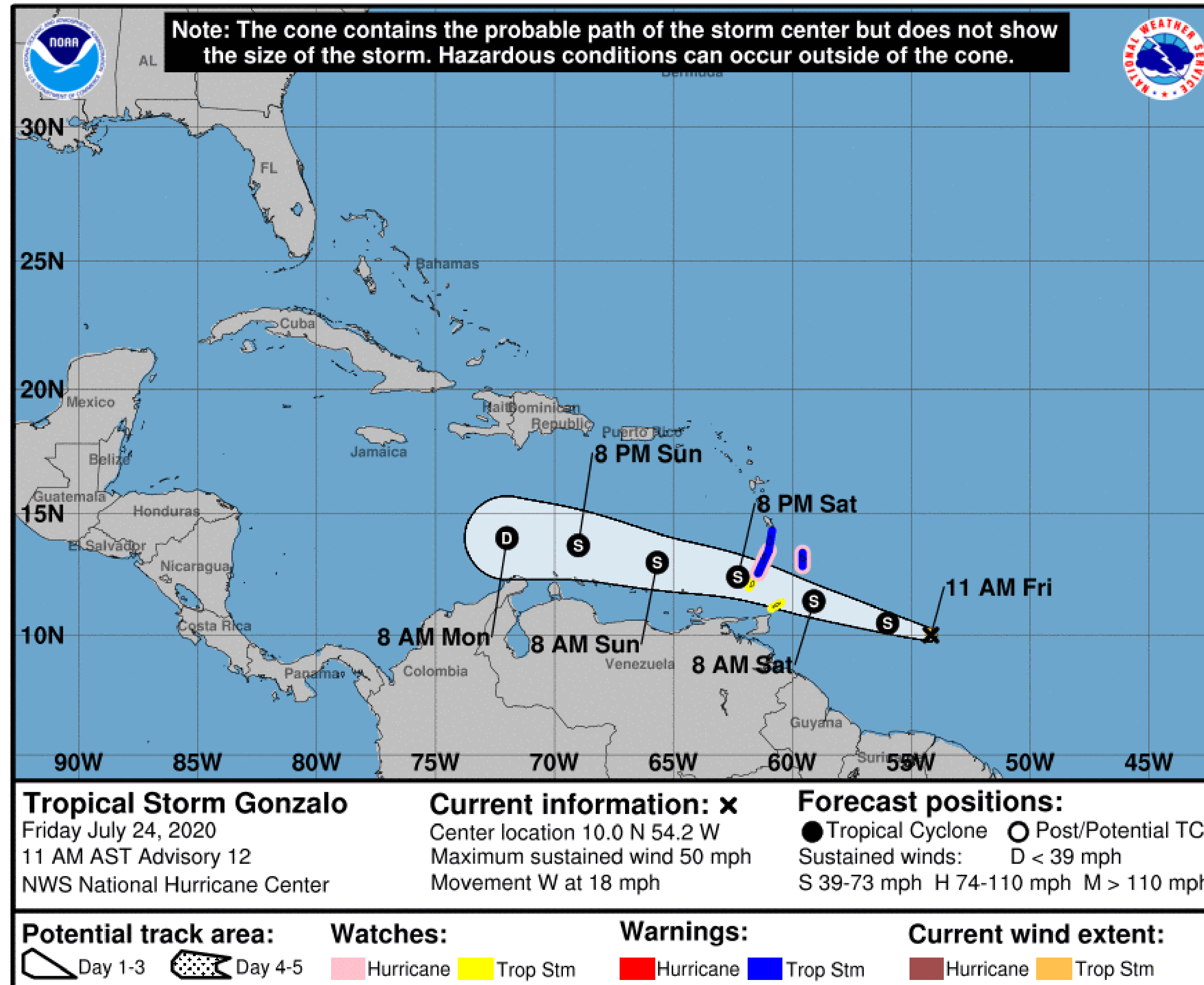


# Tropical Weather Outlook

## Tropical Storm Gonzalo



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- Monitoring T.S. Gonzalo
- May dissipate in the central Caribbean, HOWEVER, it may still reform
- Still uncertain if Gonzalo will move into the Gulf of Mexico. Continue to monitor closely!





- Conditions will begin to deteriorate late tonight as outer bands begin moving into the region.
- Forecast storm intensity has increased, winds may be close to 65 mph with gusts to hurricane force near the center of the storm at landfall.
- Landfall is expected midday Saturday along the South Texas Coast.
- **Slow storm motion after landfall could result in several days of heavy rainfall and a potential for dangerous flooding!**
- **Keep a close eye on Gonzalo!**





*The Next Webinar:  
Today 4:30 PM CT*



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