

National Weather Service - Houston/Galveston, TX

Tropical Storm Beryl Briefing

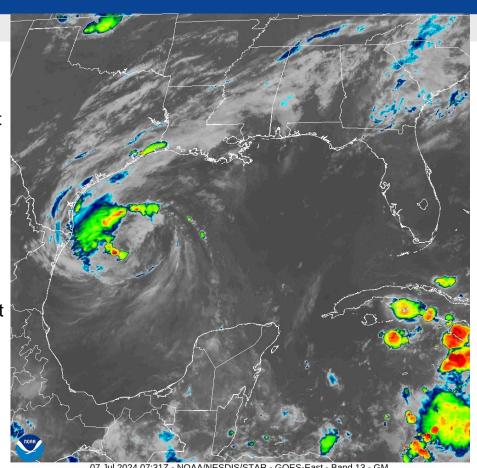
4 AM Sunday, July 7th, 2024

NWS Houston/Galveston

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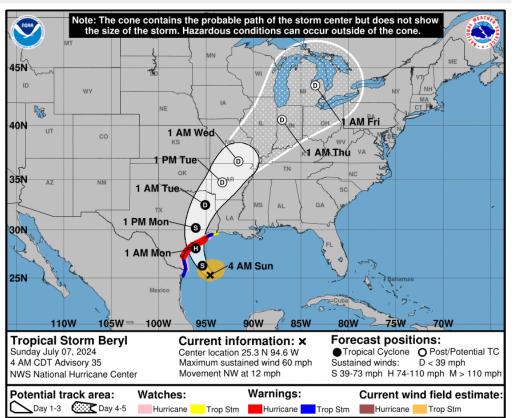
Situation Overview

- Tropical Storm Beryl continues to track NW across the Gulf toward the Texas coast with the expected landfall now potentially in Matagorda County.
- Currently a 60 mph tropical storm, Beryl is forecast to make landfall as an 85 mph hurricane (Cat 1).
- Coastal Brazoria County is now in a Hurricane Warning and Galveston Island is now in a Hurricane Watch. All other inland hazards remain the same.
- Storm Surge Warnings remain in effect along the coast with inundation of up to 4-6ft possible.
- Flood Watch remains in effect for portions of the area (mainly along and west of I-45) for late tonight through Tuesday.
- Rainfall forecast amounts unchanged: 5 to 10 inches are expected with local amounts up to 15 inches where the heaviest rainfall occurs.
- Rip currents and elevated seas are likely.
- Possibly a few tornadoes in bands starting this afternoon.





Tropical Storm Beryl



- Slight shift eastward for potential landfall location – now possibly in Matagorda County.
- Hurricane Warnings (red) from Baffin Bay to San Luis Pass.
- Tropical Storm Warnings (blue) from San Luis Pass to High Island.
- Hurricane Watch (shown in pink) and TS Warning together from San Luis Pass through Galveston Island.
- Confidence in track continues to increase but changes could still occur.
 Stay tuned!
- Note: The cone only shows the probable path of the storm center – impacts will be felt well outside the cone.



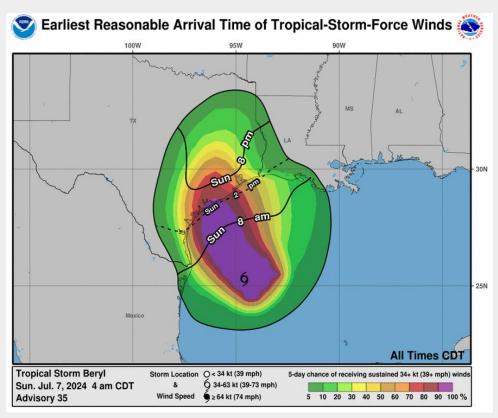
Watches and Warnings

Maps Showing Various Warnings and Watches: Warned Areas Denote the Greatest Threat for Life Threatening Conditions





Earliest Reasonable Time of Arrival



- The earliest reasonable time of arrival of Tropical Storm Force Winds will be this afternoon to evening.
 - The most likely time will be this evening to overnight tonight.
- Higher point probabilities near and around our SW Counties/Matagorda Bay.

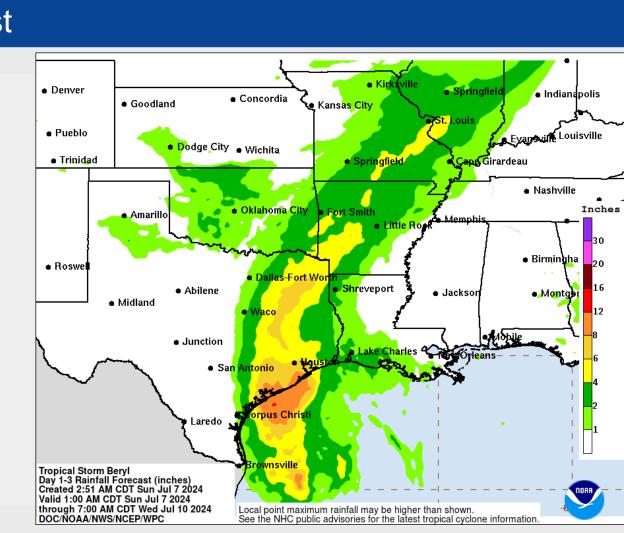


Rainfall Forecast

Storm total rainfall amounts of 5 to 10 inches with localized higher amounts expected. Beginning late today.

Period of heaviest rain tonight into Tuesday.

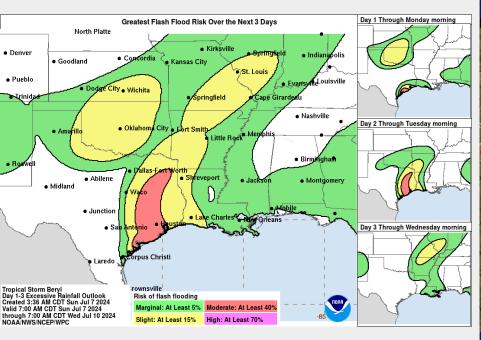
The heaviest band will be generally near or right of the center track.

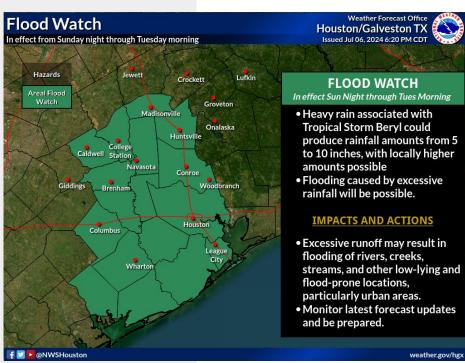




Excessive Rainfall Outlook/Flood Watch

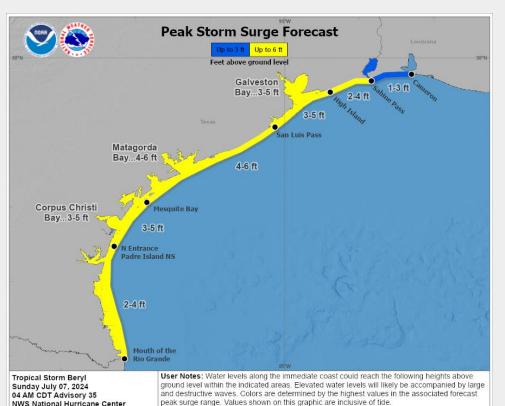
Main heavy rain/flash flood threat will be tonight into Tuesday for the local area. Risk rated as Moderate for western counties which will be closer to the track, highest rainfall.







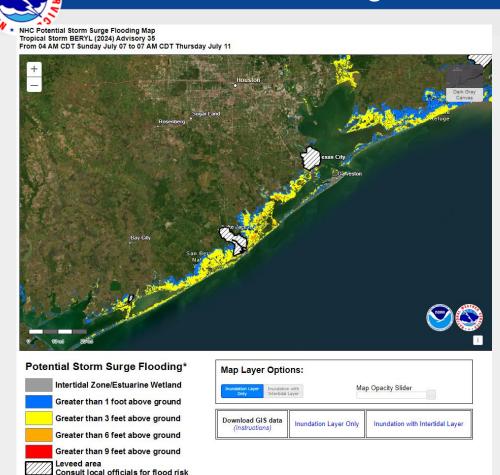
Peak Surge (Height Above Normally Dry Ground)



Peak surge:

- 4 to 6 feet above ground Mesquite Bay to San Luis Pass
- 3 to 5 feet San Luis Pass to High Island (including Galveston Bay)
- 2 to 4 feet High Island to Sabine Pass

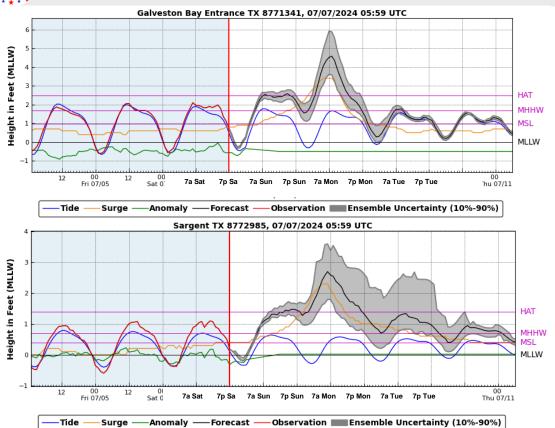
Potential Storm Surge Flooding



- Map shows areas, depth of water that may occur (surge potential, reasonable worst case).
- Can be viewed at hurricanes.gov and, for EMCs, using Hurrevac.
- Tides begin to increase today, but highest surge values will be early Monday



Tide Forecast – Probabilistic Model (PETSS)

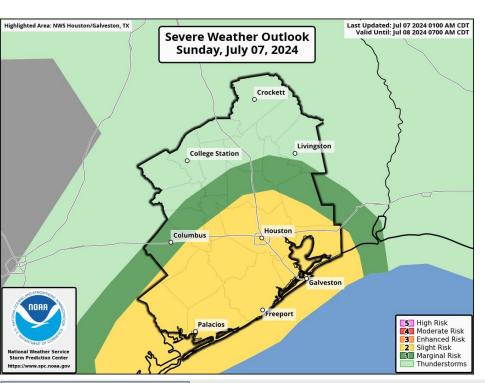


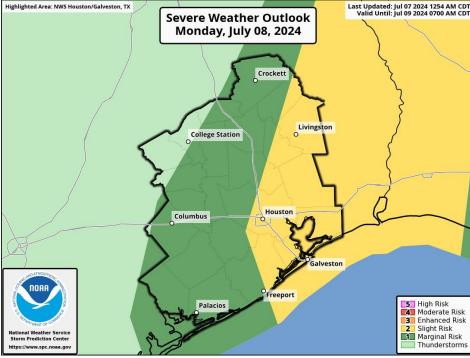
- Water levels shown are relative to MLLW
- Landfall and high tide will be close in time together.
- Elevated tides are expected today, but the highest water levels are expected on Monday.
- Graphics are meant to show timing.
 For peak values refer to National Hurricane Center guidance which is superior for this type of storm.

Will be highly dependent on the track, intensity and size of the wind field.

Tornado Chances

Brief tornadoes possible in spiral bands this afternoon through Monday.

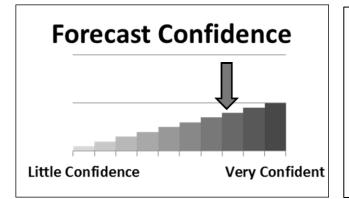






Key Take-Aways

- Track forecast for Beryl has shifted slightly eastwards with a potential landfall along Matagorda County, but shifts in the track remain possible.
- Beryl is a tropical storm now, but forecast to strengthen to a category one hurricane before landfall. Best practice is to plan for one category higher (Category 2).
- A Flood Watch remains in effect for portions of the area for tonight through Tuesday. Some watches have been upgraded to warnings as described on previous slides to highlight areas of greatest risk, concern.
- Hardest hit areas look to be Jackson and Matagorda Counties with hurricane force winds and damaging surge likely there. Could be impacts farther east and inland as described by the various watches and warnings.
- Isolated tornadoes will be possible starting this afternoon through Monday.



Confidence increasing in track and intensity forecasts but changes may still occur. Small shifts could mean significant changes to forecast. Stay tuned for updates!

Next Briefing: July 7th, 11:00 AM CDT Method: Webinar and Email

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