

National Weather Service - Houston/Galveston, TX

# **Tropical Storm Beryl Briefing**

Focus on Changes Since this Morning's Briefing

5 PM Sunday, July 7th, 2024

**NWS Houston/Galveston** 



## Situation Overview: Emphasis on What Has Changed

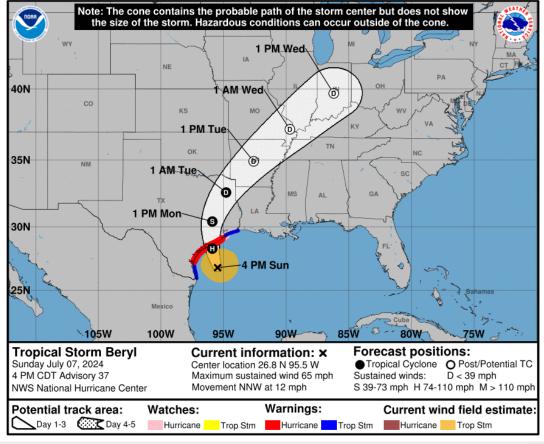
- Beryl remains a tropical storm, intensity has not changed much since morning briefing. It continues to track NNW across the Gulf toward the Texas coast.
- Currently a 65 mph tropical storm.
   Beryl is still forecast to make landfall as a category 1 hurricane.
- There are no changes to wind, surge and flood related watches and warnings or expected rainfall.
- The threat of a few tornadoes in bands will increase this evening and remain through much of Monday.



07/07/2024 16:30Z - NOAA/STAR - GOES-East - GEOCOLOR Composite



# Tropical Storm Beryl



- Very little change in track or intensity forecast. List of wind related watches and warnings listed below:
- 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.



#### Latest Radar/Observations

Tropical Storm Beryl seen on radar offshore. Spiral bands rotating up into Texas. Core of the storm to push through SE Texas later tonight and Monday.

TS force winds extend well away from center (wind gusts shown in red).



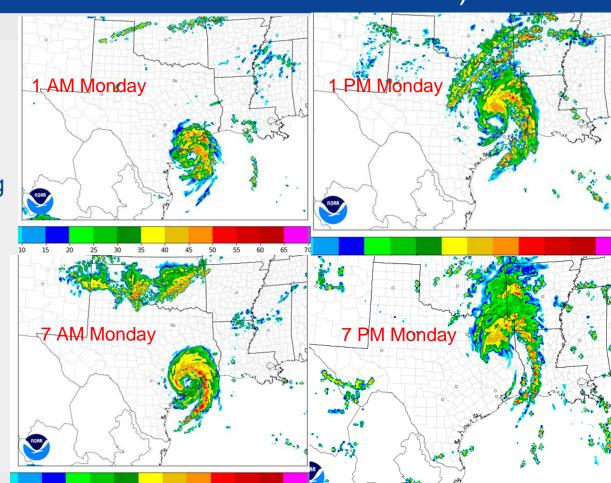


# Rainfall Timing (DO NOT FOCUS ON DETAILS)

Model forecasted radar from 18Z run of HRRR model.

Don't focus on details (including track) but can get a sense of the timing, structure, banding.

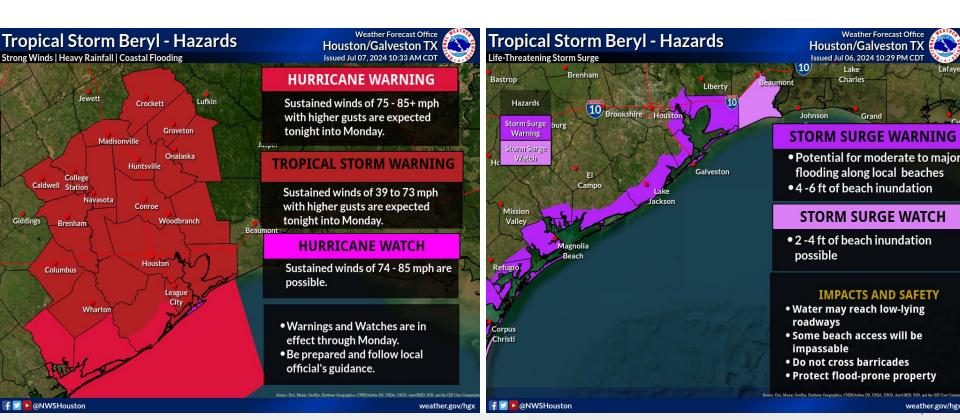
Morning commute could be difficult with heavy rain, high winds and surge coastal areas.



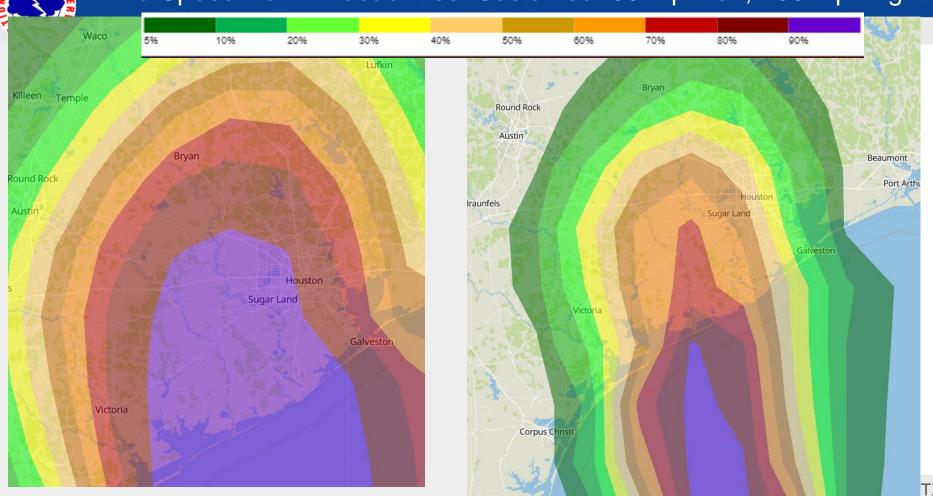


# Watches and Warnings

Maps Showing Various Wind and Surge Flooding Related Warnings and Watches



#### Wind Speed Point Probabilities: Sustained>39 mph left, >58 mph right



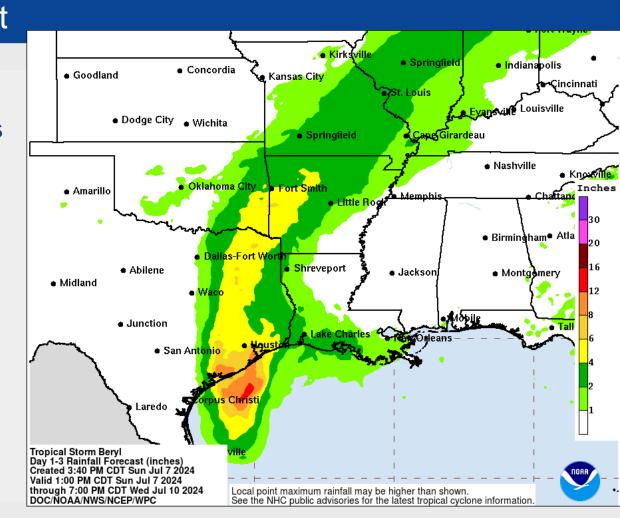


#### Rainfall Forecast

Storm total rainfall amounts of 5 to 10 inches with localized higher amounts expected. Beginning today (some bands already ongoing).

Period of heaviest rain tonight and Monday.

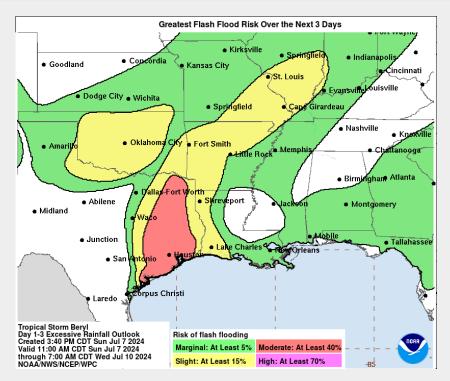
The heaviest band will be generally near or right of the center track.

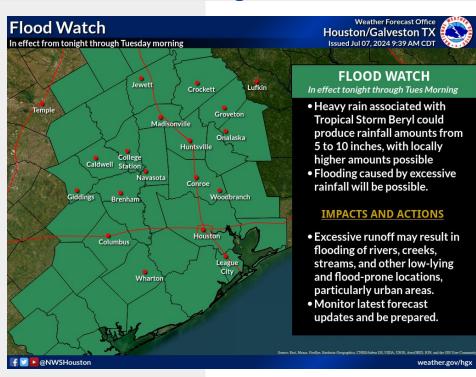




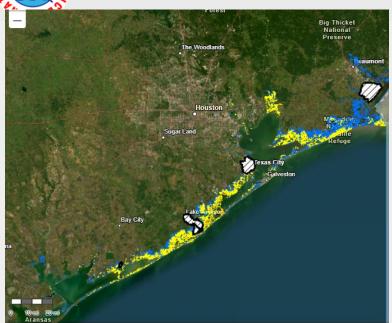
#### Excessive Rainfall Outlook/Flood Watch

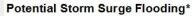
Main heavy rain/flash flood threat will be tonight into Tuesday for the local area. Risk rated as Moderate for western counties which will be closer to the track, highest rainfall.





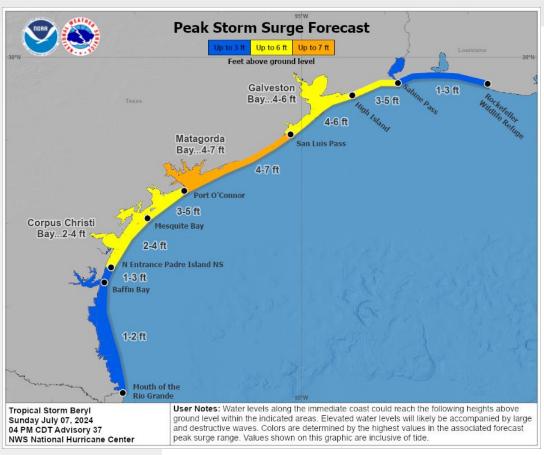
### Potential Storm Surge Flooding, Peak Surge Above Ground





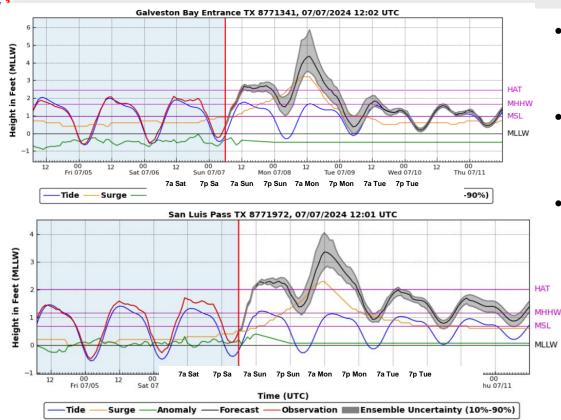
- Intertidal Zone/Estuarine Wetland
- Greater than 1 foot above ground
- Greater than 3 feet above ground
- Greater than 6 feet above ground
- Greater than 9 feet above ground
- ///// Leveed area
  - Consult local officials for flood risk







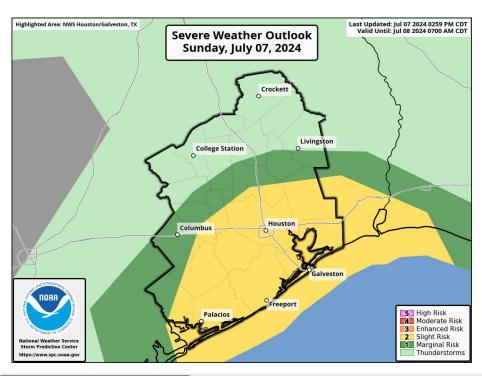
# Tide Forecast – Probabilistic Model (PETSS)

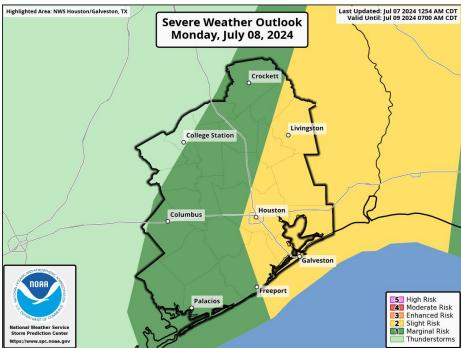


- Water levels shown are relative to MLLW. Note the values up to 6 feet above MLLW around Galveston Bay.
- Elevated tides are expected today, but the highest water levels are expected on Monday.
- Graphics are meant to show timing.
   For peak values refer to National Hurricane Center guidance which is superior for this type of storm.

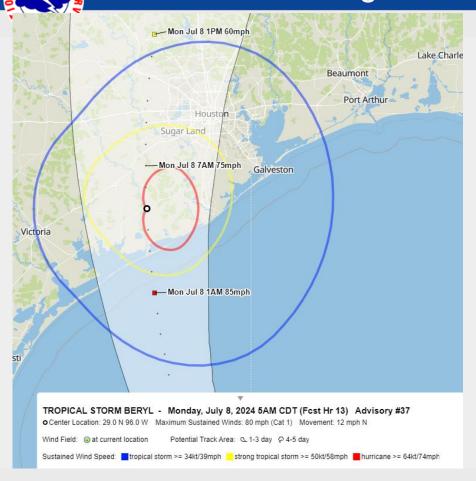


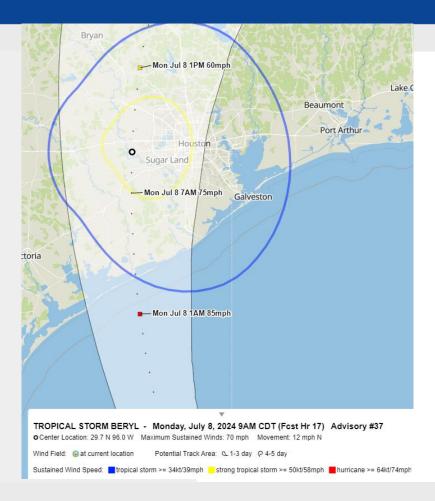
Brief tornadoes possible in spiral bands this afternoon through Monday.





#### Wind Radii, Timing, Cone







48-Hour QPF

Not much change. River flooding expected to begin early tomorrow morning and extend into late week.

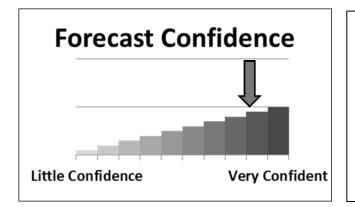
Focus is on Lavaca/Navidad, Tres Palacios, and San Bernard Rivers.

Need to monitor tributaries of Brazos and Trinity Rivers, as well as San Jacinto River/Houston Bayous for any training.



## Key Take-Aways

- Very few changes today. Beryl remains a tropical storm, still could strengthen to a hurricane before landfall.
- Beryl will bring a variety of hazards including high winds, heavy rains and storm surge flooding to low lying coastal area.
- Isolated tornadoes will be possible.
- Looks to be a very stormy night and Monday morning with potential for damaging winds, flooding rains and storm surge flooding near the coast. Improving conditions by Monday afternoon and evening.



Confidence overall is high on significant impacts from Beryl, all hazards. Still some question whether or how much Beryl will intensify before landfall.

# Next Briefing: July 7<sup>th</sup> 10:30 PM CDT

Method: Webinar and Email

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