National Weather Service - Houston/Galveston, TX

Hurricane Beryl Briefing

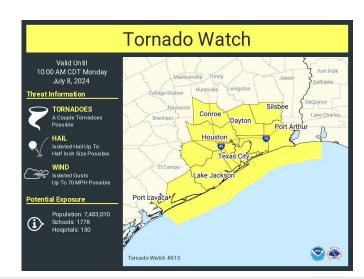
430 AM Monday, July 8th, 2024

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Situation Overview: What's New?

- Beryl became a hurricane at 11 pm last night. Maximum winds are around 80 mph.
- Beryl made landfall as a category 1 hurricane at Matagorda, Texas at 4 AM.
- Southeast portions of southeast Texas are in a tornado watch until 10 am.







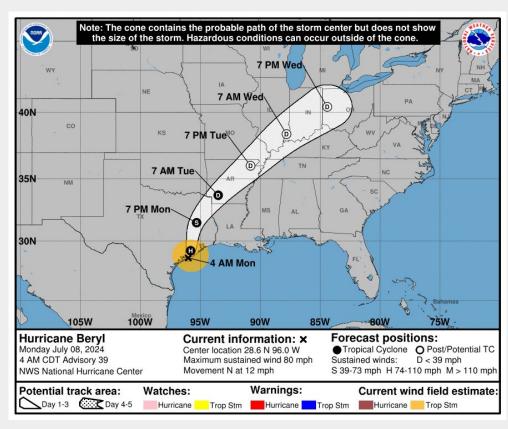
Latest Radar/Observations

Hurricane Beryl highest wind gusts (mph) through 3 AM.





Hurricane Beryl

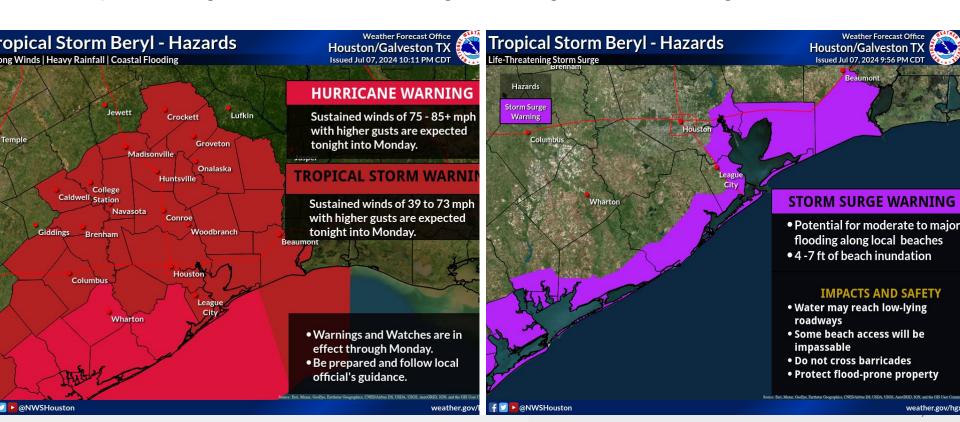


Beryl will continue to move northward today across southeast Texas and slowly weaken - then accelerate and move northeast



Watches and Warnings

Maps Showing Various Wind and Surge Flooding Related Warnings and Watches





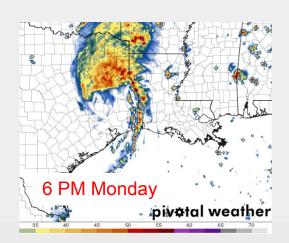
Simulated RADAR

Model forecasted radar from 1 AM run of HRRR model.

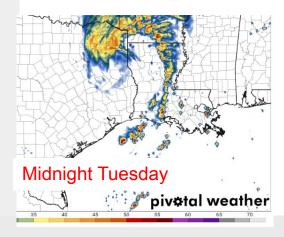
Don't focus on details - but can get a sense of the timing, structure, banding.

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



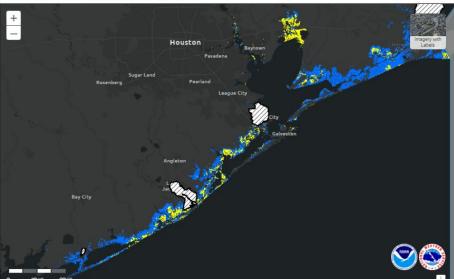




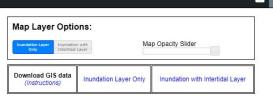


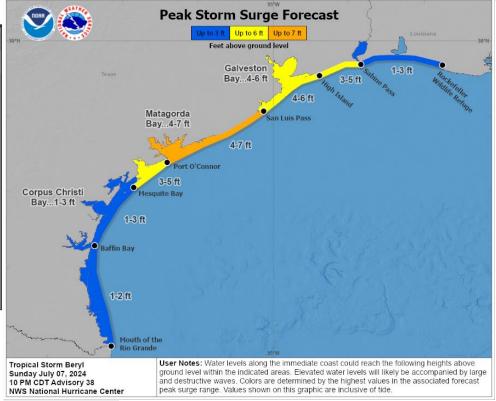
Potential Storm Surge Flooding, Peak Surge Above Ground

NHC Potential Storm Surge Flooding Map Tropical Storm BERYL (2024) Advisory 38 From 10 PM CDT Sunday July 07 to 01 AM CDT Friday July 12



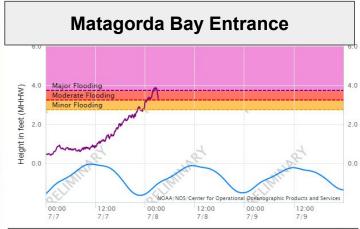
Potential Storm Surge Flooding* Intertidal Zone/Estuarine Wetland Greater than 1 foot above ground Greater than 3 feet above ground Greater than 6 feet above ground Greater than 9 feet above ground Leveed area Consult local officials for flood risk

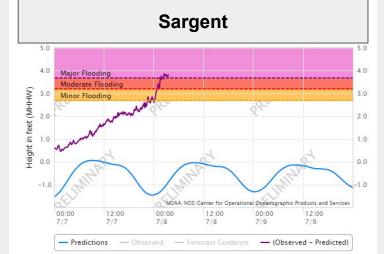


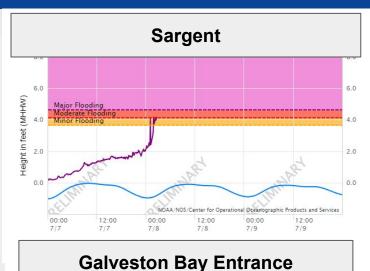


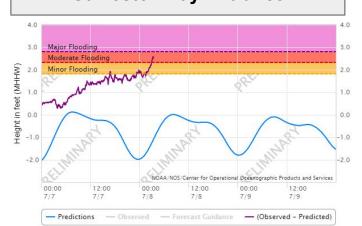


Storm Surge Observations







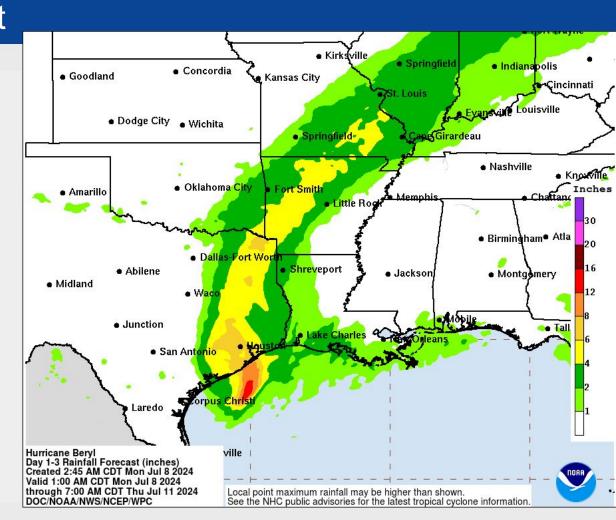




Rainfall Forecast

Additional rainfall amounts of 4 to 8 inches with localized higher amounts are expected.

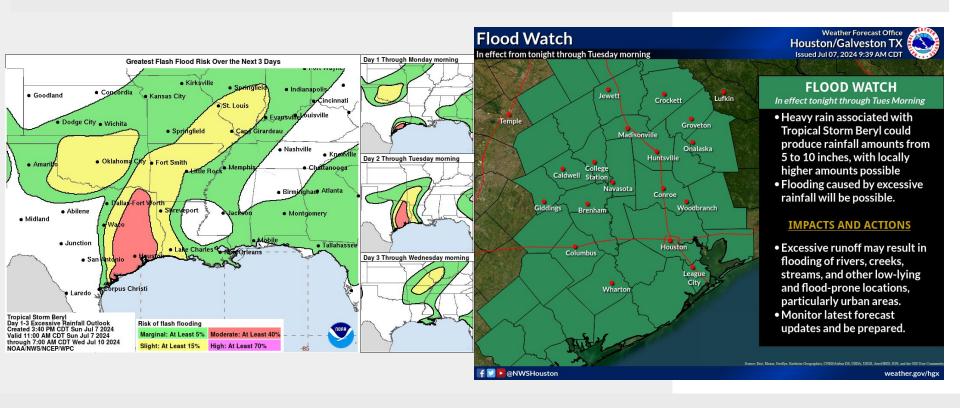
Period of heaviest rain tonight and Monday.



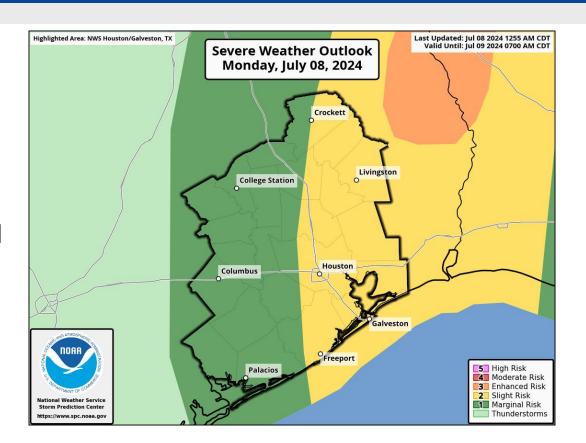


Excessive Rainfall Outlook/Flood Watch

Main heavy rain/flash flood threat will be today for the local area. Risk rated as Moderate.



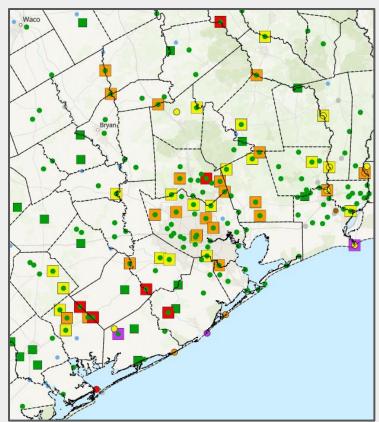
Isolated tornadoes are possible in spiral bands through this morning and into the afternoon.





River Forecasts

48-Hour QPF



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

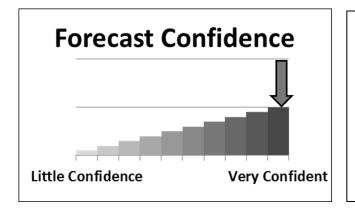
Focus is on Lavaca/Navidad, Tres Palacios, and San Bernard Rivers.

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



Key Take-Aways

- Beryl is a category 1 hurricane and has made 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 the rest of tonight and today.
- Potential for damaging winds, flooding rains and storm surge flooding near the coast through this morning.
 Improving conditions this 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 Webinar Briefing: None Planned Method: Email Briefings

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