

IMPACTS FOR D8 (through next 3 days)

Winds – Medium

Storm Surge – Medium

Rainfall/Flash Flooding – High

Tornadoes – High

Waves - Medium

TROPICAL STORM BERYL BRIEFING



11:00 AM CDT
Monday, July 8, 2024

Prepared by:

Wallace Hogsett

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

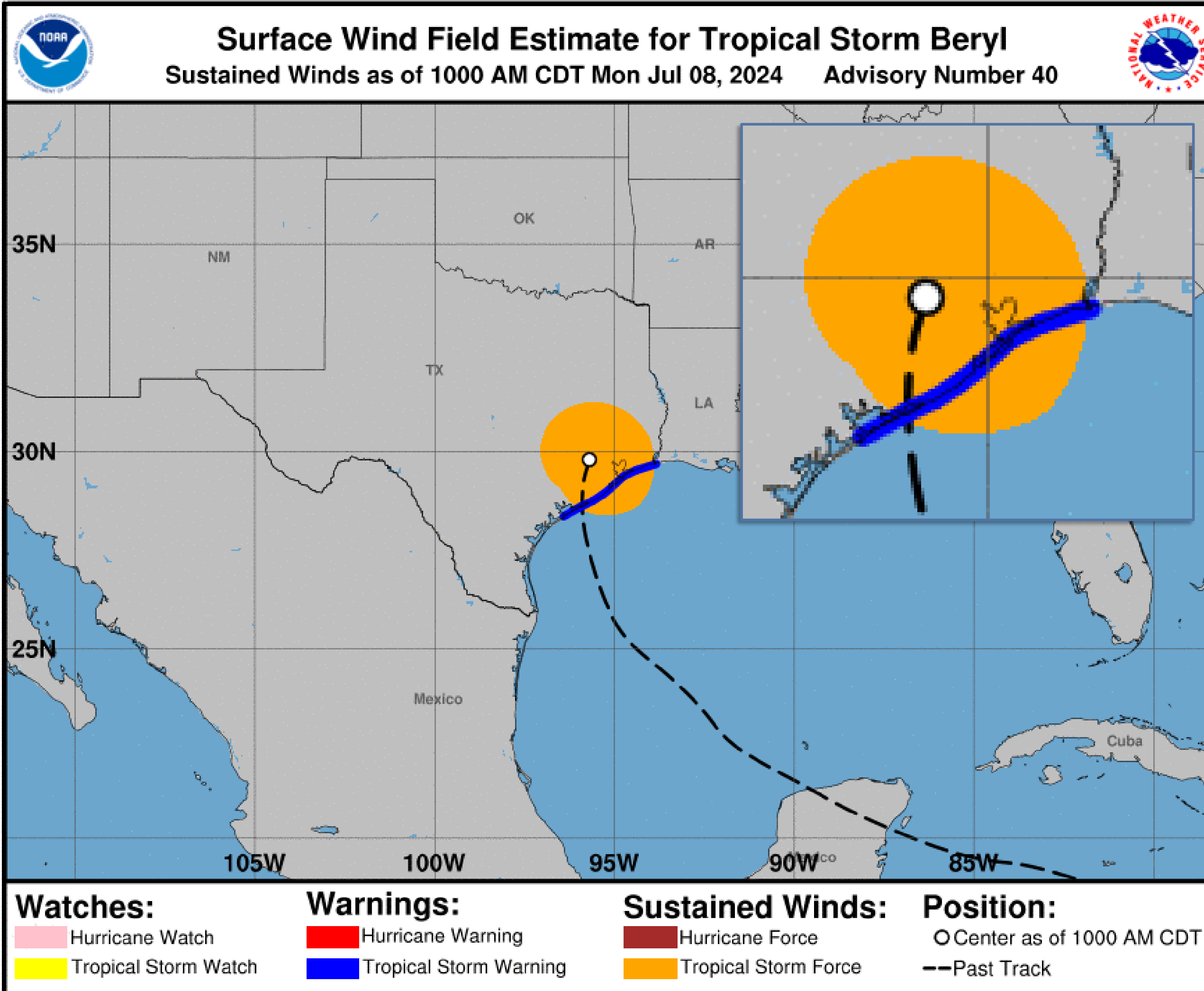


Situation Overview

Tropical Storm Beryl



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**... LIFE-THREATENING STORM SURGE,
DAMAGING WIND GUSTS, AND
FLOODING RAINFALL CONTINUING
OVER EASTERN TEXAS...**

Summary of 1000 AM CDT... 1500 UTC...

Location... 29.8N 95.7W

About 20 nm... WNW of Houston, TX

Maximum Sustained Winds... 60 kt

Present Movement... NNE or 15 degrees at 11 kt

Size:

50 KT..... 70NE 70SE 30SW 30NW.

34 KT..... 90NE 100SE 60SW 80NW.

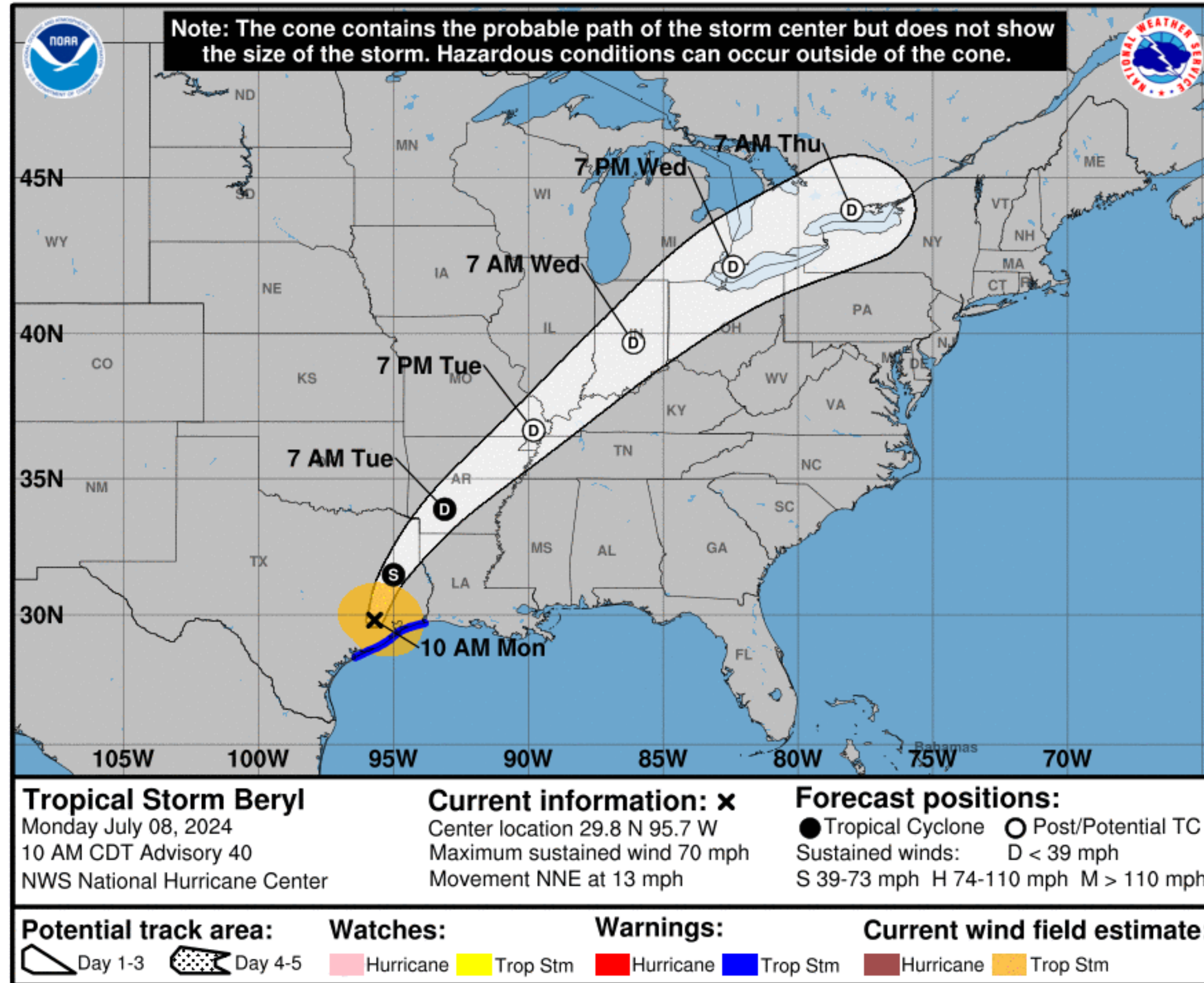
12 FT SEAS.. 0NE 120SE 0SW 0NW

Forecast Information

Tropical Storm Beryl



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- Beryl will accelerate as it continues to move northeastward across East Texas
- Beryl is expected to weaken to a tropical depression within the next 24 hours
- White swath of potential track error added to each side of the forecast track through day 3

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

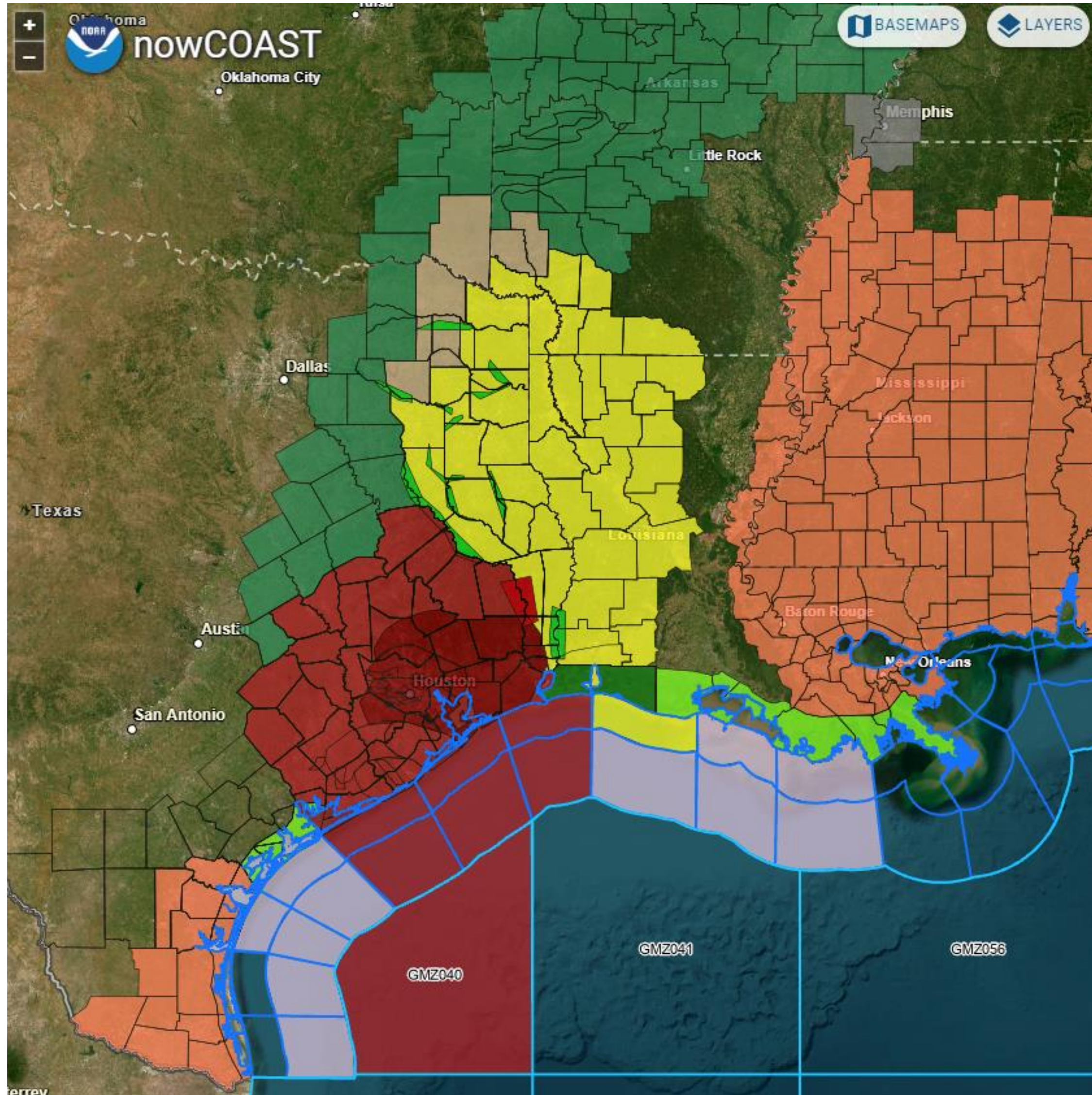
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Tropical Storm Beryl



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- Hurricane Warning
- Tropical Storm Warning
- Hurricane Watch
- Tropical Storm Watch
- Coastal Flood Advisory
- Small Craft Advisory
- Gale Warning
- Gale Watch

<https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Beryl



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- Port O'Connor, TX: 100%
- Galveston, TX: 100%
- Houston, TX: 100%
- Freeport, TX: 100%
- Matagorda, TX: 100%

- 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.

Time of Departure – TS Winds

Tropical Storm Beryl



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Most Likely // **Latest Reasonable**

Galveston, TX:

Monday Mid-Day // Monday Late Afternoon

Houston, TX:

Monday Mid-Day // Monday Late Afternoon

Freeport, TX:

Monday Mid-Day // Monday Early Afternoon

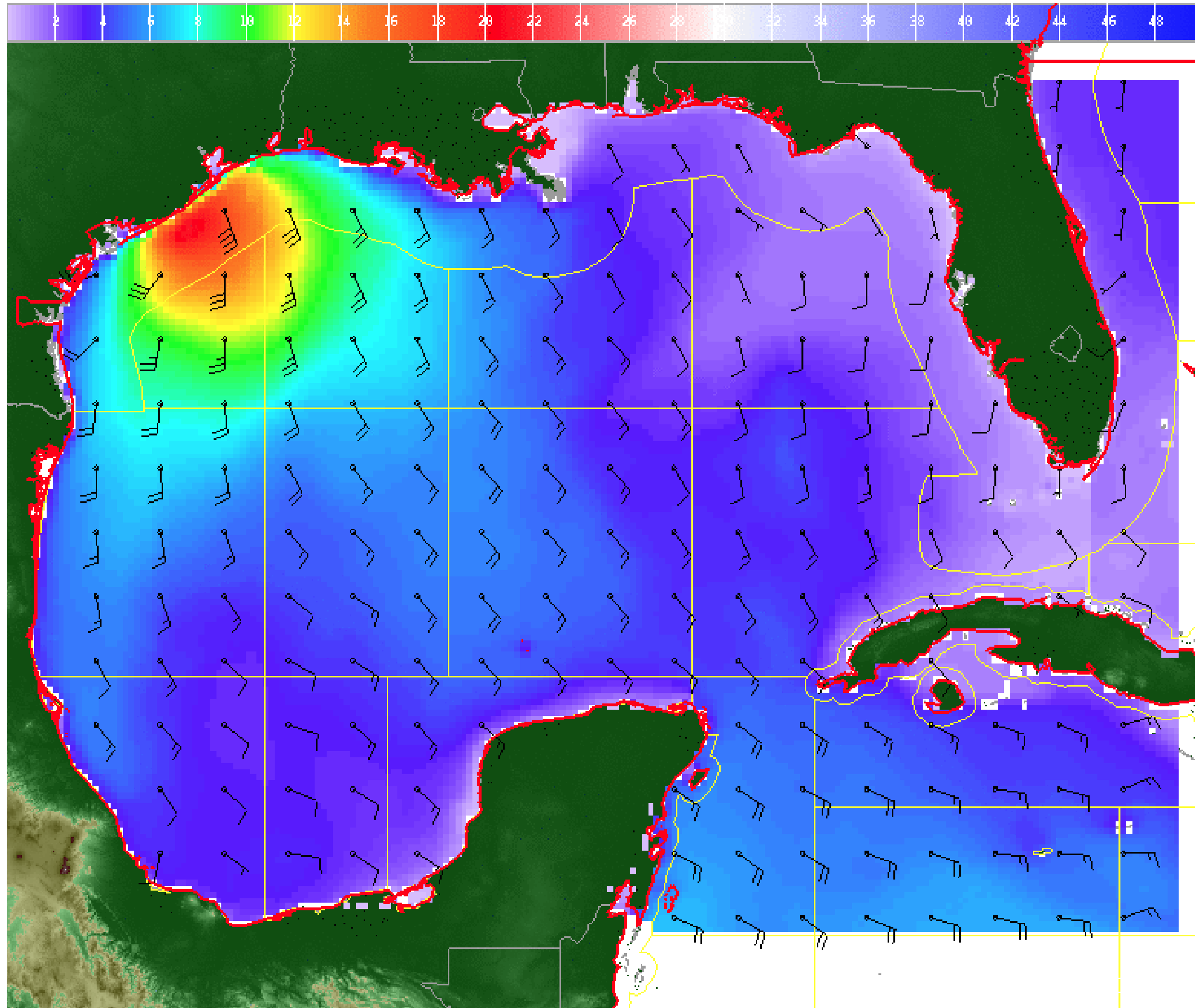
Wind And Waves

Tropical Storm Beryl



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Valid 8 Jul 2024 1200 GMT



Current Conditions

Monday Morning

Peak Winds: 40 kt

Peak Seas: ~20 ft

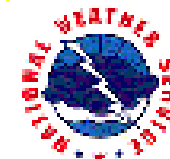
■ Wave heights are in feet



Significant Wave Height (ft)



NHC/TAFB Gridded Marine Forecasts



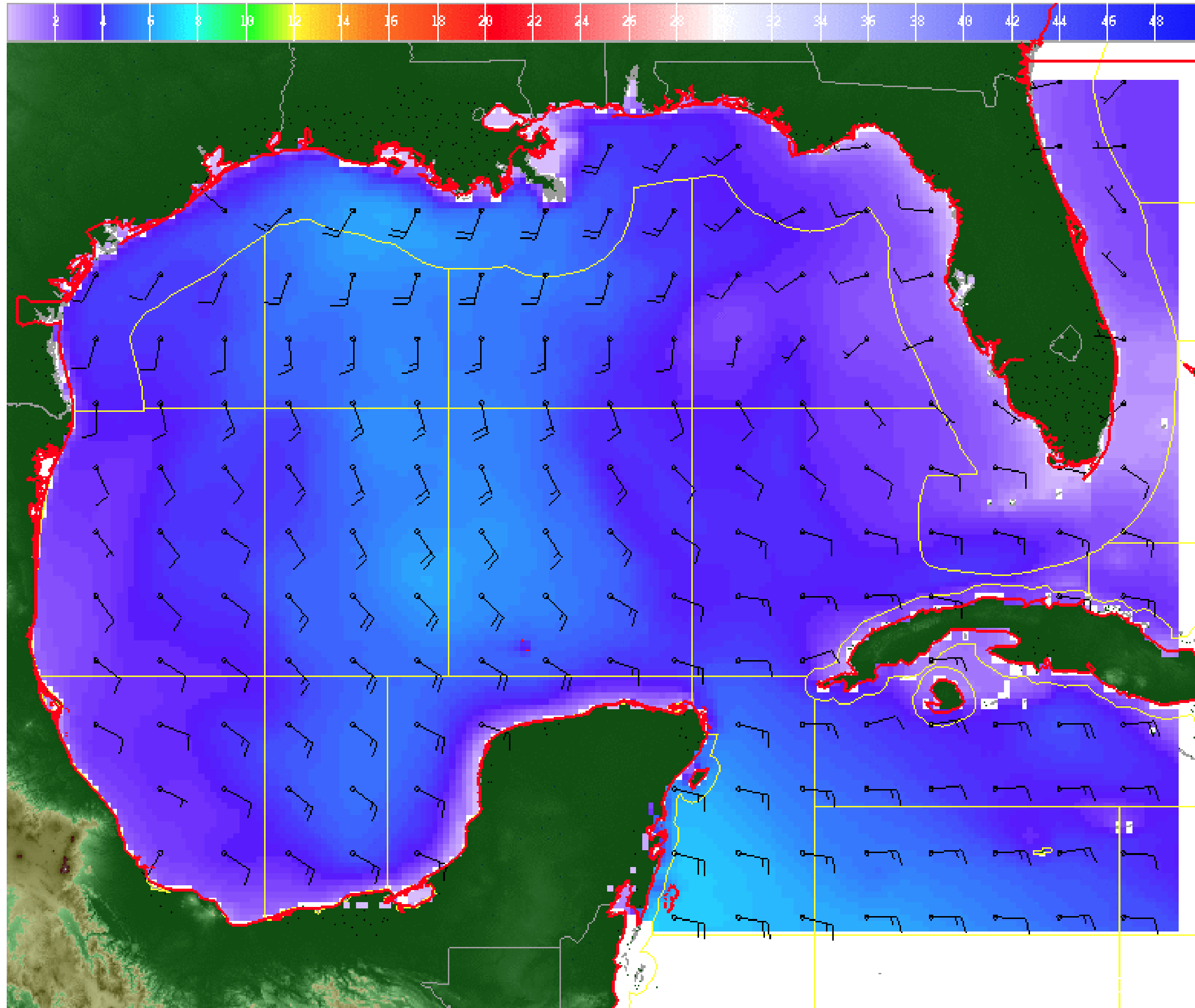
Wind And Waves

Tropical Storm Beryl



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Valid 9 Jul 2024 1200 GMT



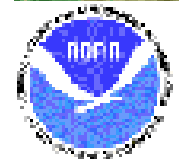
24 Hour Forecast
Tuesday Morning
Peak Winds: 20 kt
Peak Seas: ~8 ft

■ Wave heights are in feet



Significant Wave Height (ft)

NHC/TAFB Gridded Marine Forecasts



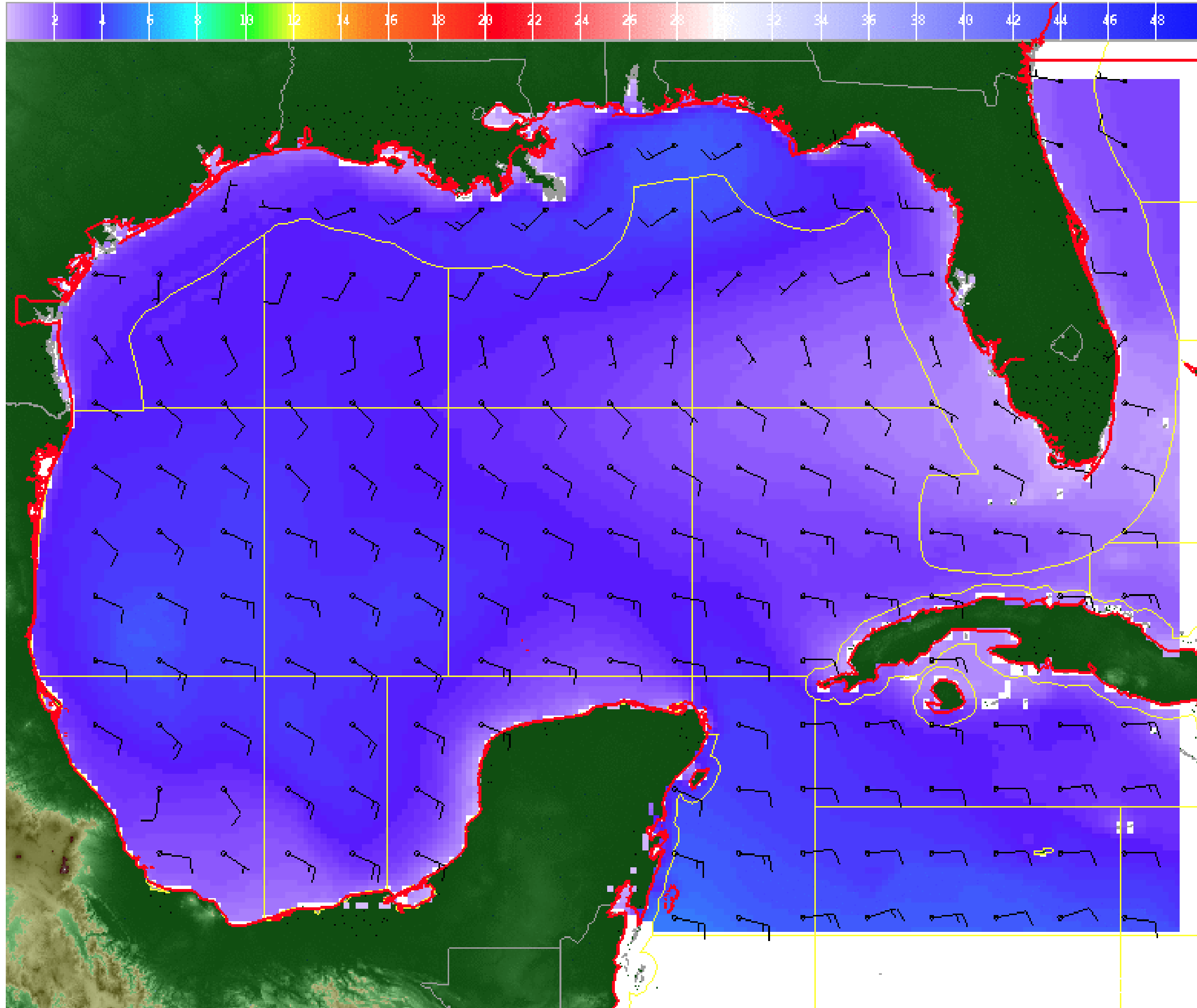
Wind And Waves

Tropical Storm Beryl



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Valid 10 Jul 2024 1200 GMT



48 Hour Forecast

Wednesday Morning

Peak Winds: 15 kt

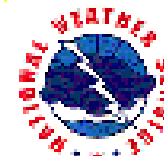
Peak Seas: ~6 ft

Wave heights are in feet



Significant Wave Height (ft)

NHC/TAFB Gridded Marine Forecasts

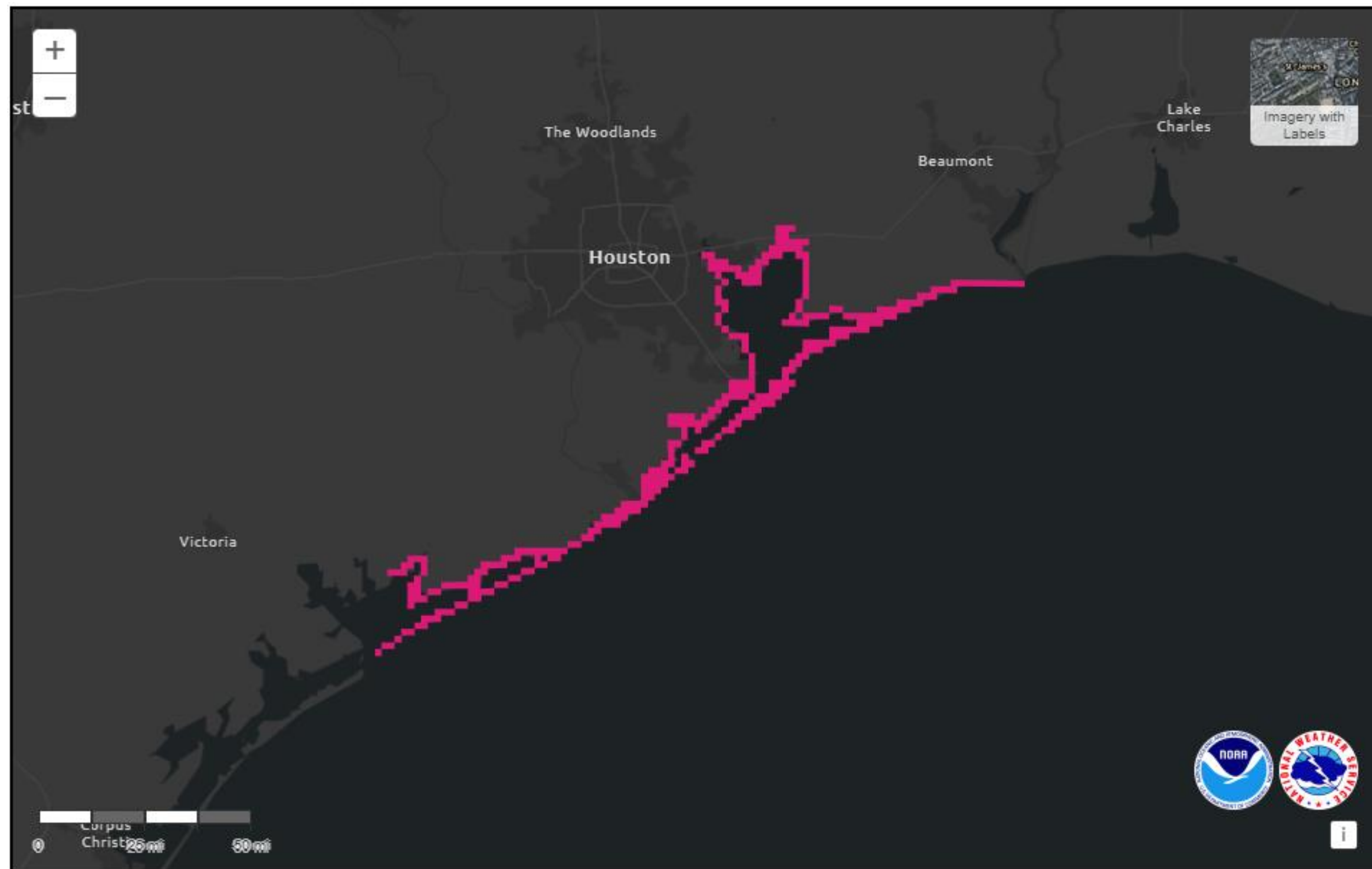


Potential Peak Storm Surge / Watches and Warnings

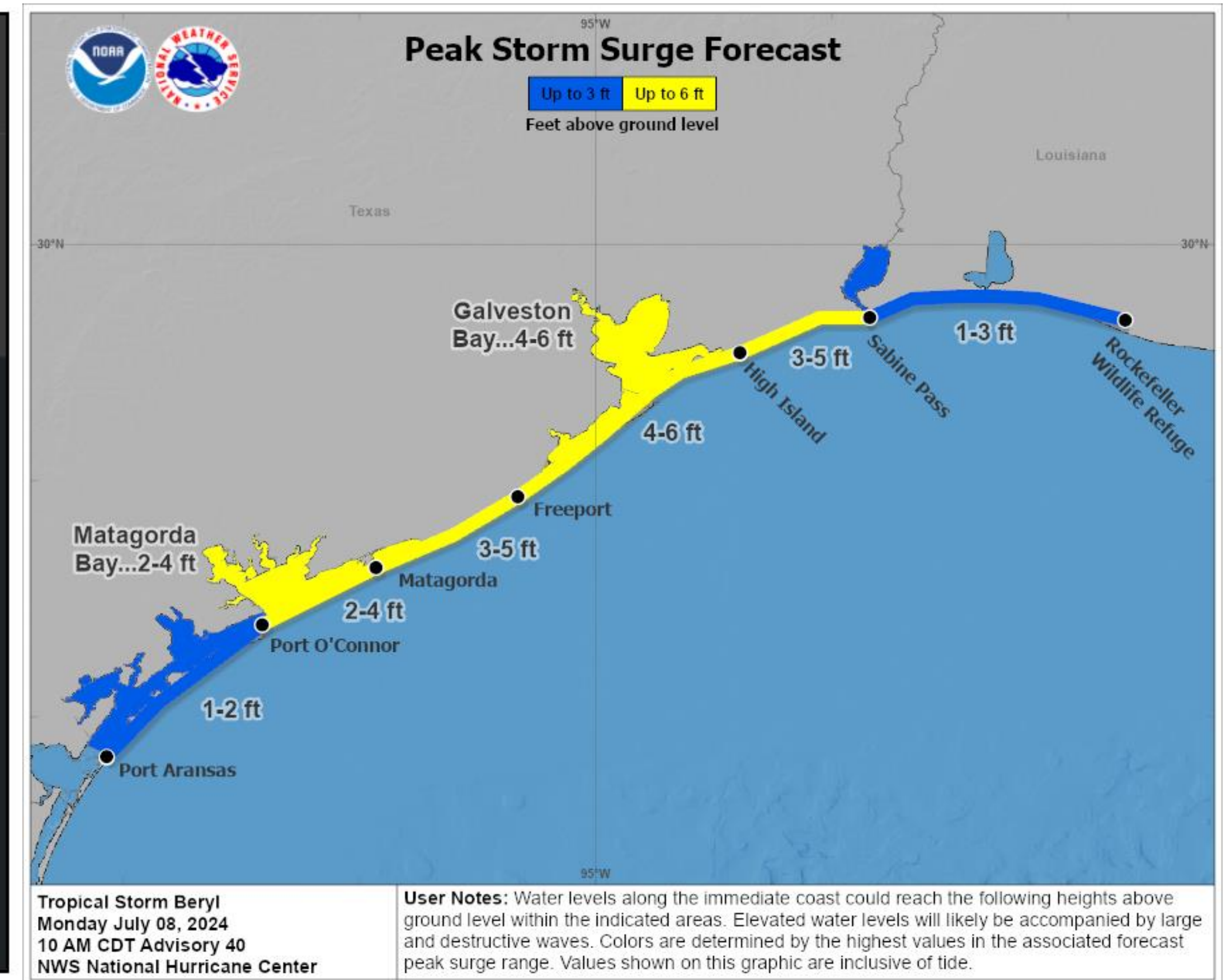


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Tropical Storm Beryl



Storm Surge Warning
Storm Surge Watch



- A Storm Surge Warning is in effect for...
- * Port O'Connor to Sabine Pass, including Matagorda Bay and Galveston Bay

Expected Storm Total Rainfall and Chance of Rainfall Flooding

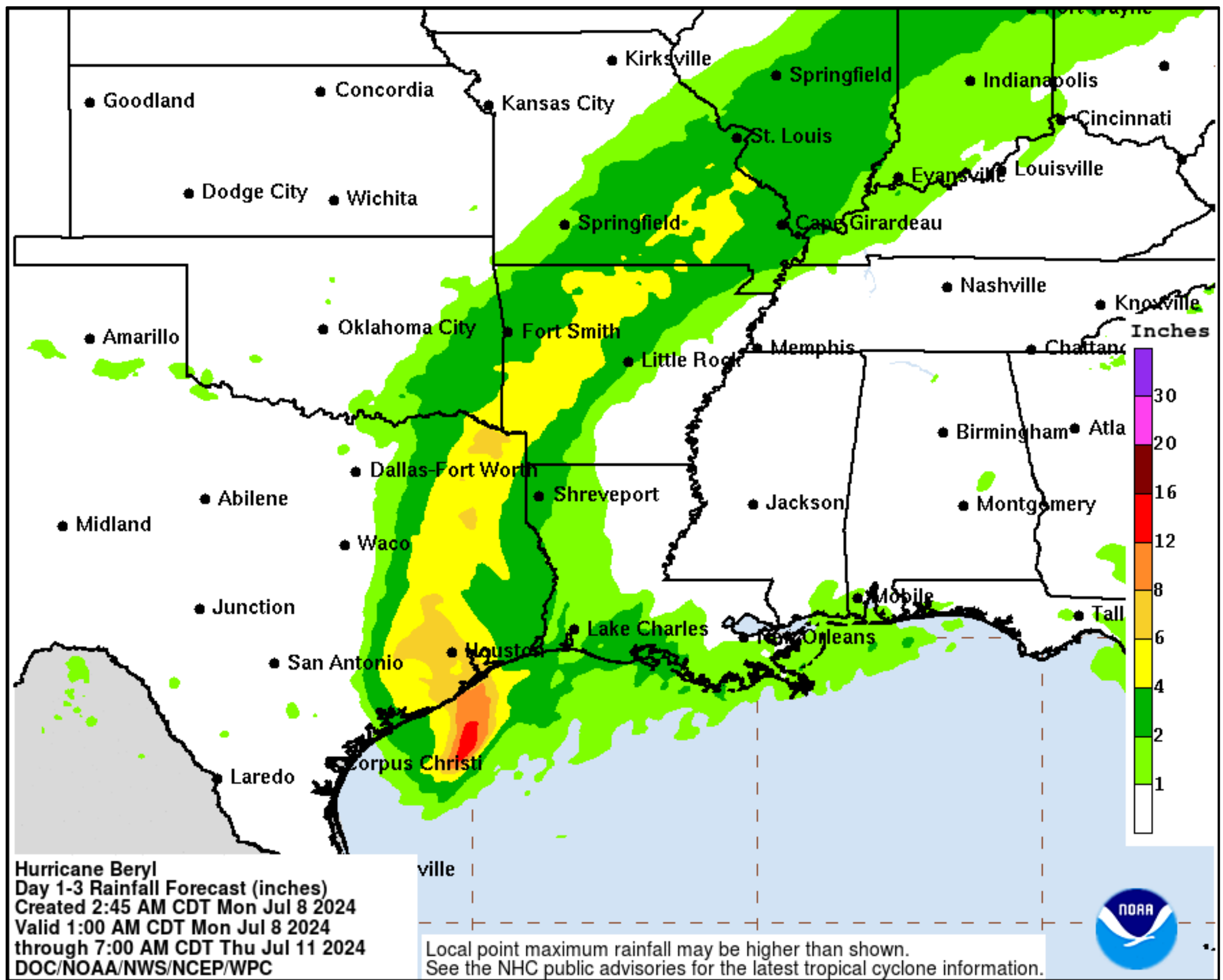


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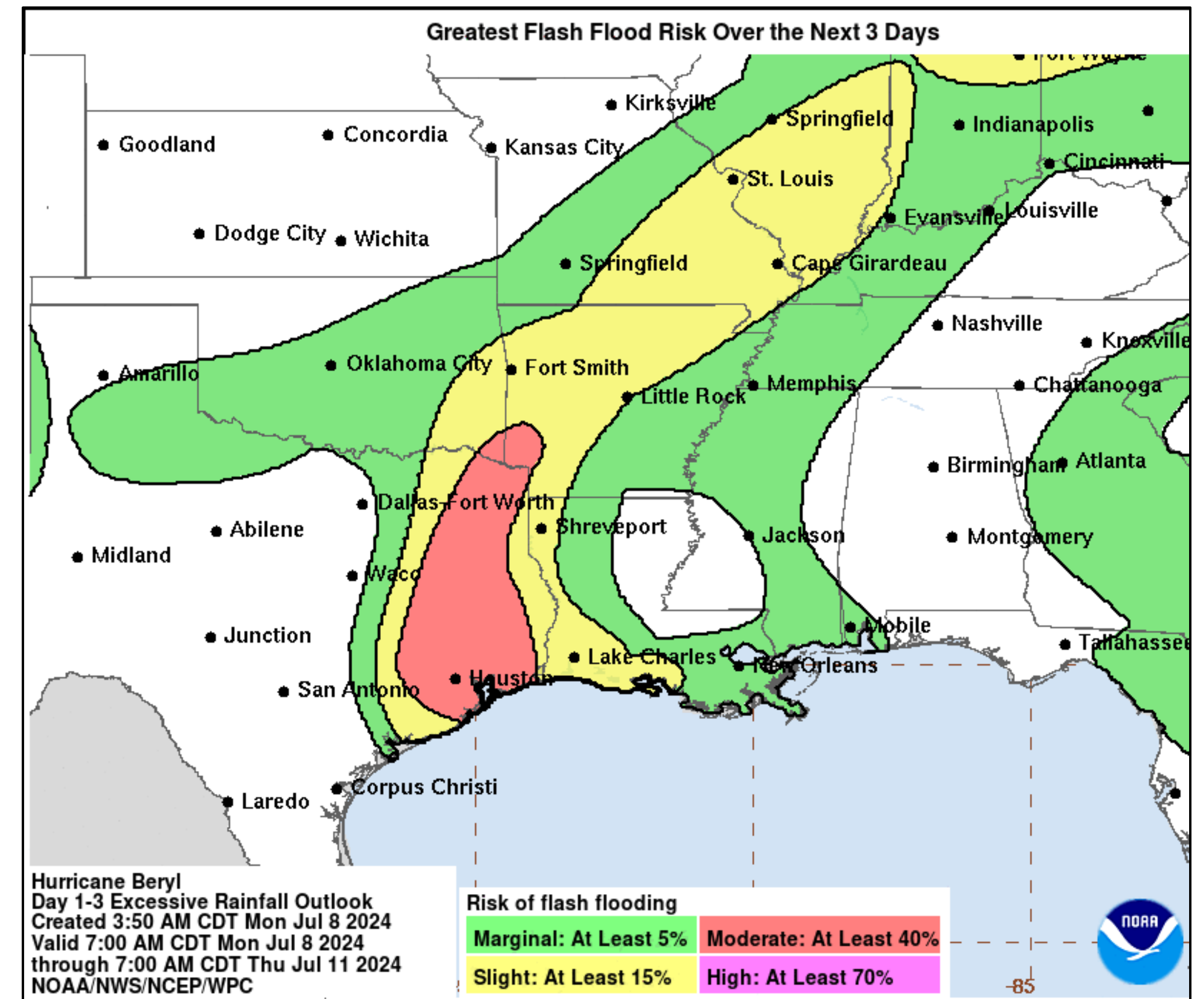
Tropical Storm Beryl

Images from NWS Weather Prediction Center

Rainfall Forecast



Risk of Flash Flooding



Refer to map legend for Valid Time

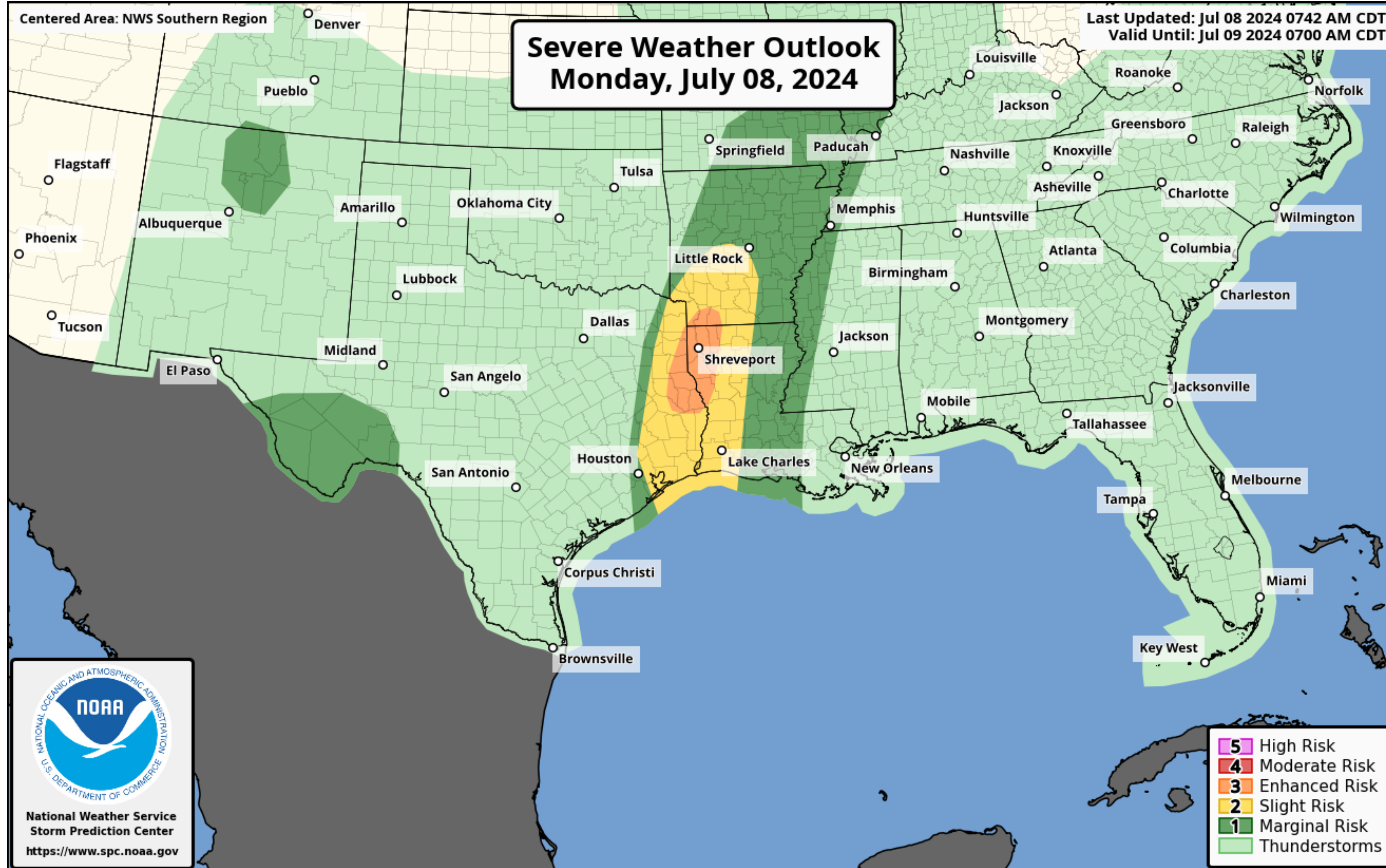
Tornado Outlook – Day 1

Tropical Storm Beryl

Image from NWS Storm Prediction Center



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Tornado threat today in East Texas, Louisiana and Arkansas

Key Messages

Tropical Storm Beryl



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Key Messages for Tropical Storm Beryl

Advisory 40: 10:00 AM CDT Mon Jul 08, 2024

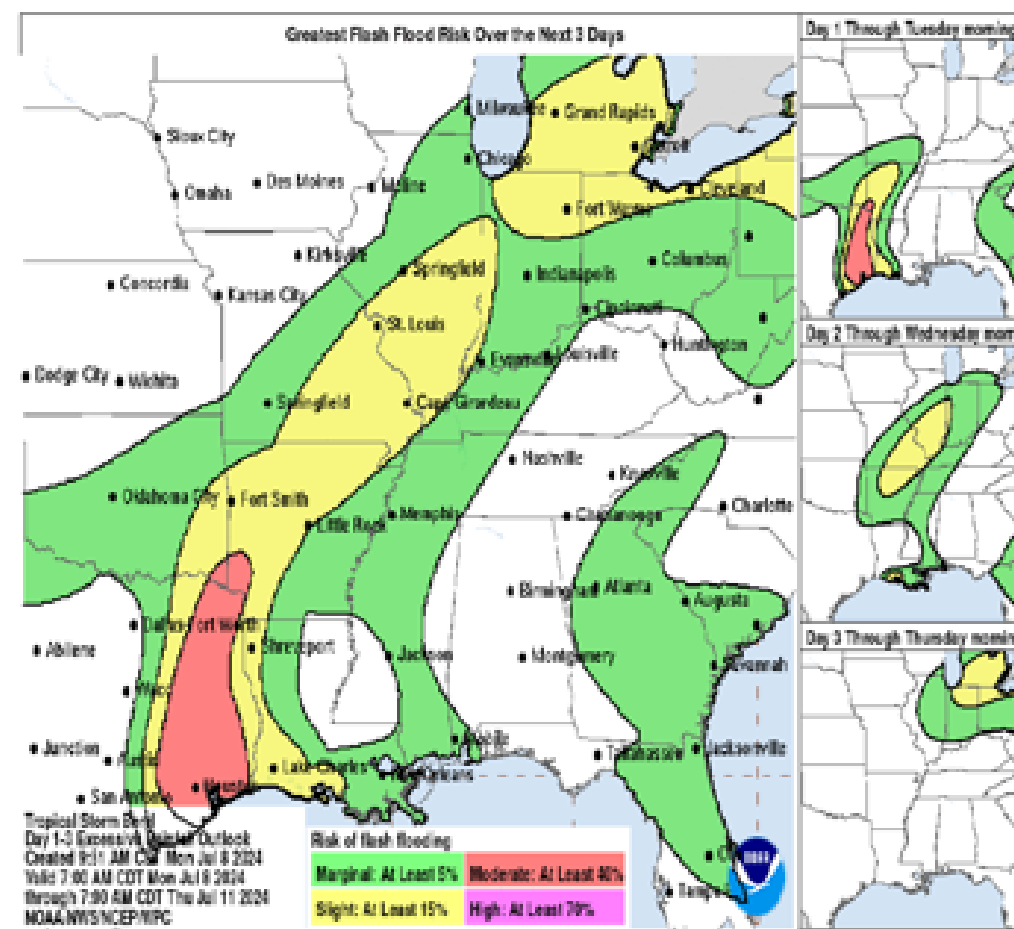
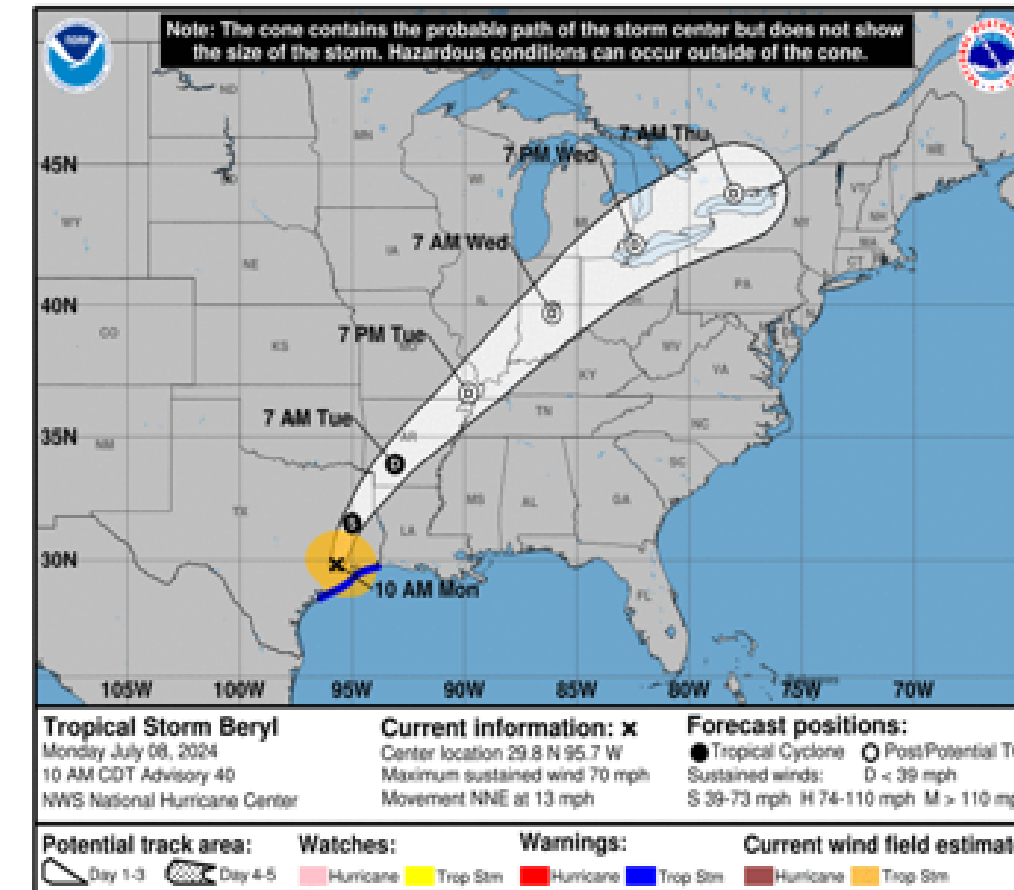


1. Life-threatening storm surge inundation will continue through this afternoon along the coast of Texas from Port O'Connor to Sabine Pass, including the eastern portion of Matagorda Bay and Galveston Bay.

2. Damaging wind gusts near the core of Beryl will continue to spread northward within the Tropical Storm Warning area, including the Houston metro area, for the next several hours.

3. Considerable flash and urban flooding is expected today into tonight across portions of the middle and upper Texas Gulf Coast and eastern Texas. Minor to isolated major river flooding is also expected.

4. Rip currents will cause life-threatening beach conditions through Tuesday across portions of the northern and western Gulf coasts. Beachgoers should heed warning flags and the advice of lifeguards and local officials before venturing into the water.



For more information go to hurricanes.gov

IMPACTS FOR D8 (through next 5 days)

Winds – **Medium**

Storm Surge – **Medium**

Rainfall/Flash Flooding – **High**

Tornadoes – **High**

Waves – **Medium**

Marine Key Messages:

- Conditions will continue to improve this afternoon as Beryl moves inland



TROPICAL STORM BERYL BRIEFING

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



NHC_TAFB

www.nhc.noaa.gov