

IMPACTS FOR D8 (through next 5 days)

Winds – Moderate to High

Storm Surge – Low to Moderate

Rainfall/Flash Flooding – Moderate

Tornadoes – Low

Waves - High

HURRICANE BERYL BRIEFING



11:00 AM CDT
Friday, July 5, 2024

Prepared by:

Jeff Lewitsky

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

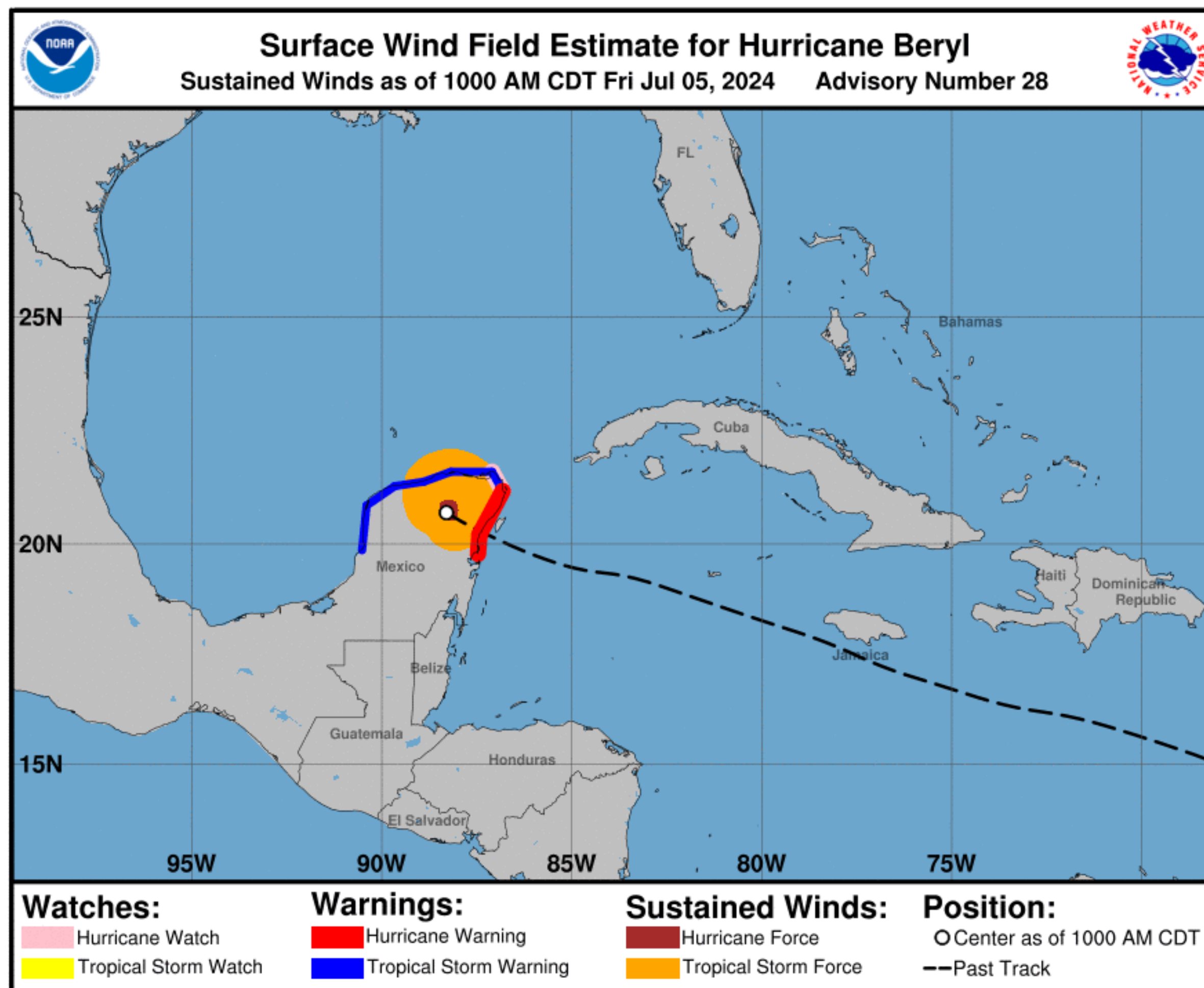
www.nhc.noaa.gov

Situation Overview

Hurricane Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...BERYL WEAKENING AS IT MOVES FARTHER INLAND OVER THE NORTHEASTERN YUCATAN PENINSULA...

...DANGEROUS HURRICANE-FORCE WINDS, STORM SURGE, AND DAMAGING WAVES EXPECTED OVER PORTIONS OF THIS AREA FOR A FEW MORE HOURS...

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

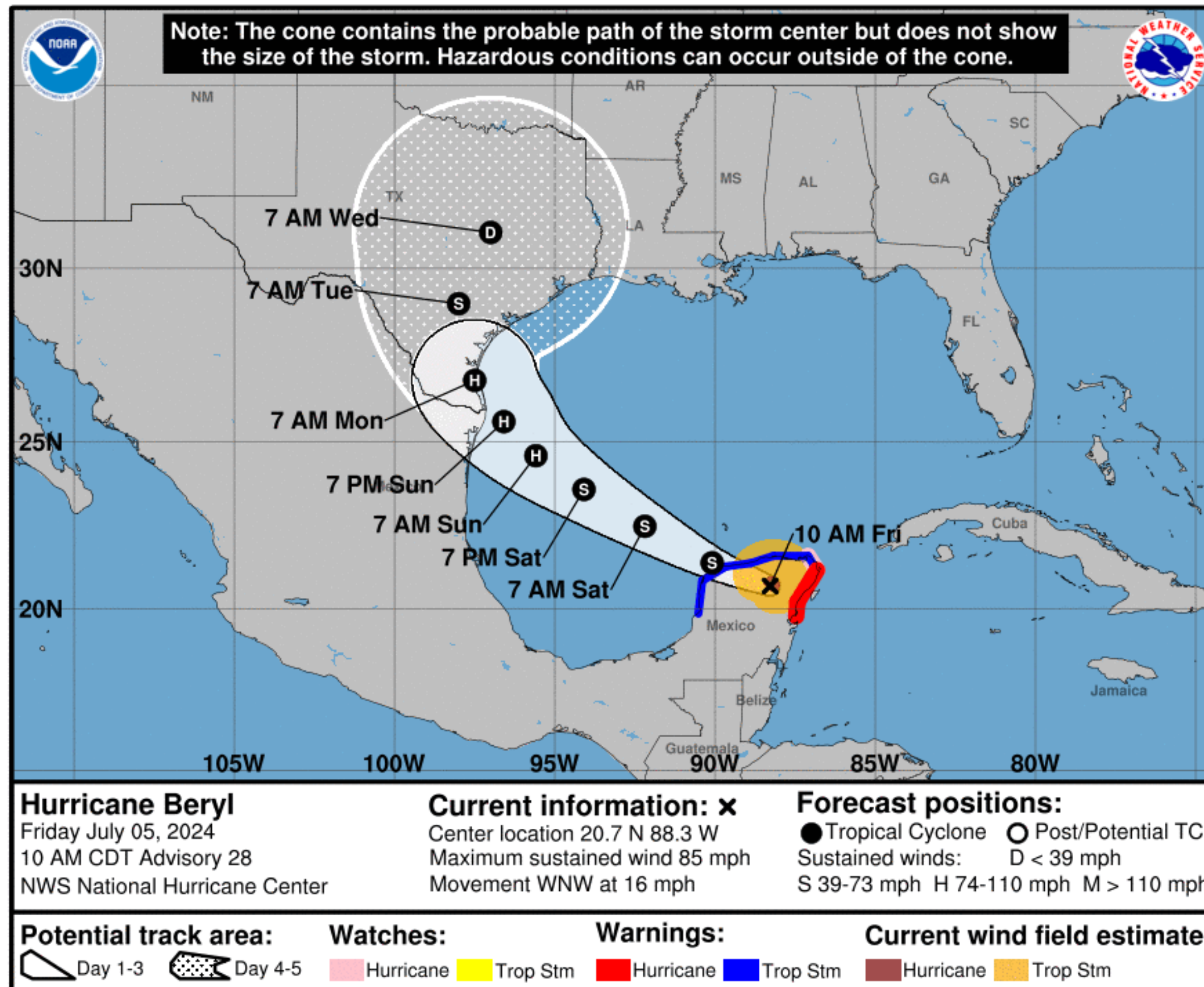
LOCATION...20.7N 88.3W
ABOUT 591 NM ESE OF BROWNSVILLE, TX
MAXIMUM SUSTAINED WINDS...75 kt
PRESENT MOVEMENT...WNW OR 290 DEGREES
AT 14 KT
MINIMUM CENTRAL PRESSURE...
980 mb OR 28.94 inches

Forecast Information

Hurricane Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



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

- **Continued rapid weakening is expected as Beryl moves farther inland and crosses the Yucatan Peninsula today, but slow re-intensification is expected once Beryl moves back over the Gulf of Mexico.**
- **Beryl is expected to emerge over the southwestern Gulf of Mexico tonight and then move northwestward toward northeastern Mexico and southern Texas by the end of the weekend.**
- Current center forecast positions through the next 5 days (if applicable) illustrated by dots
- White swath of potential track error added to each side of the forecast track through day 3
- Hatched swath of potential track error added to each side of the forecast track days 4-5

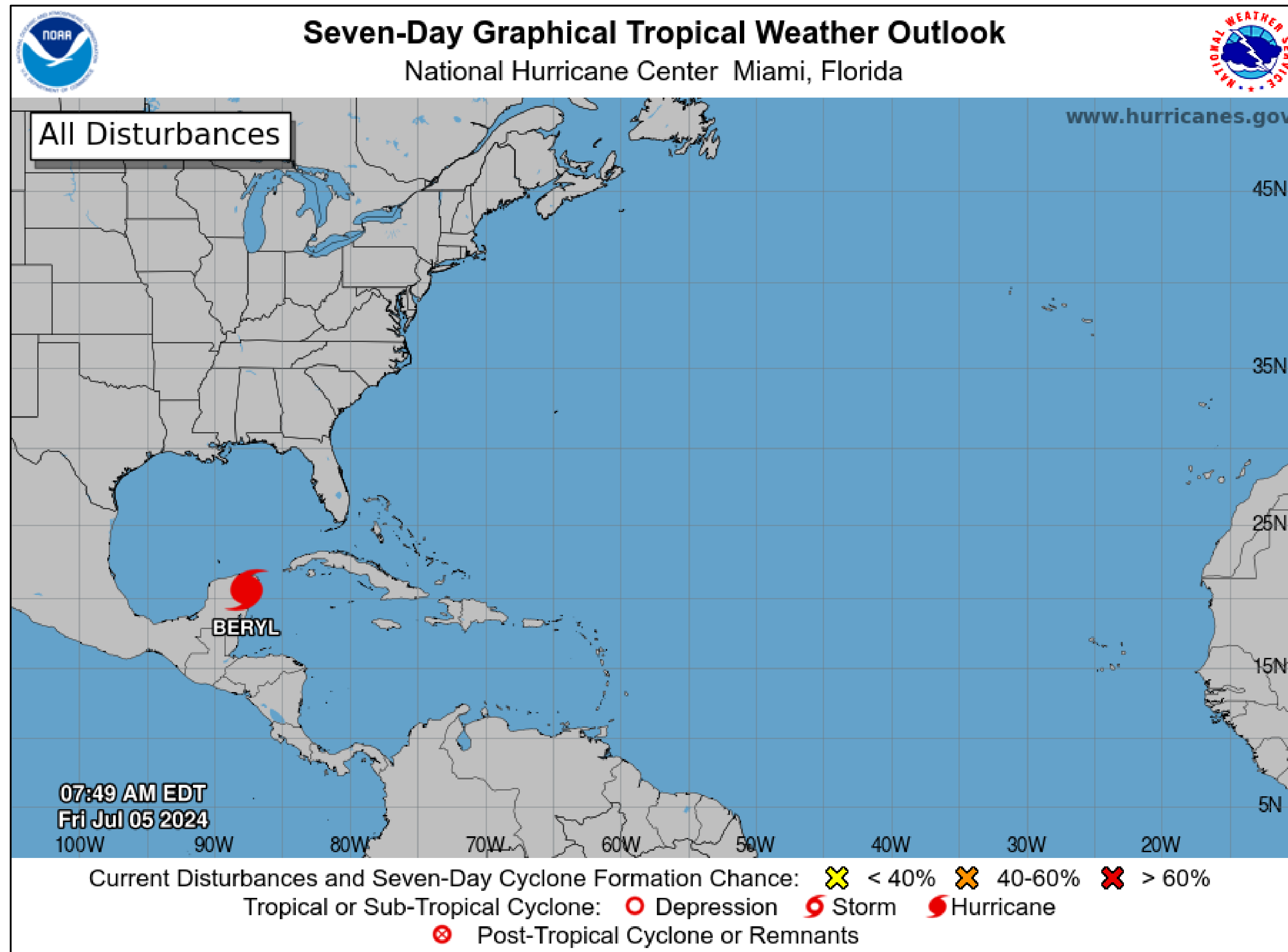
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Tropical Weather Outlook

Hurricane Beryl



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NWS National Hurricane Center



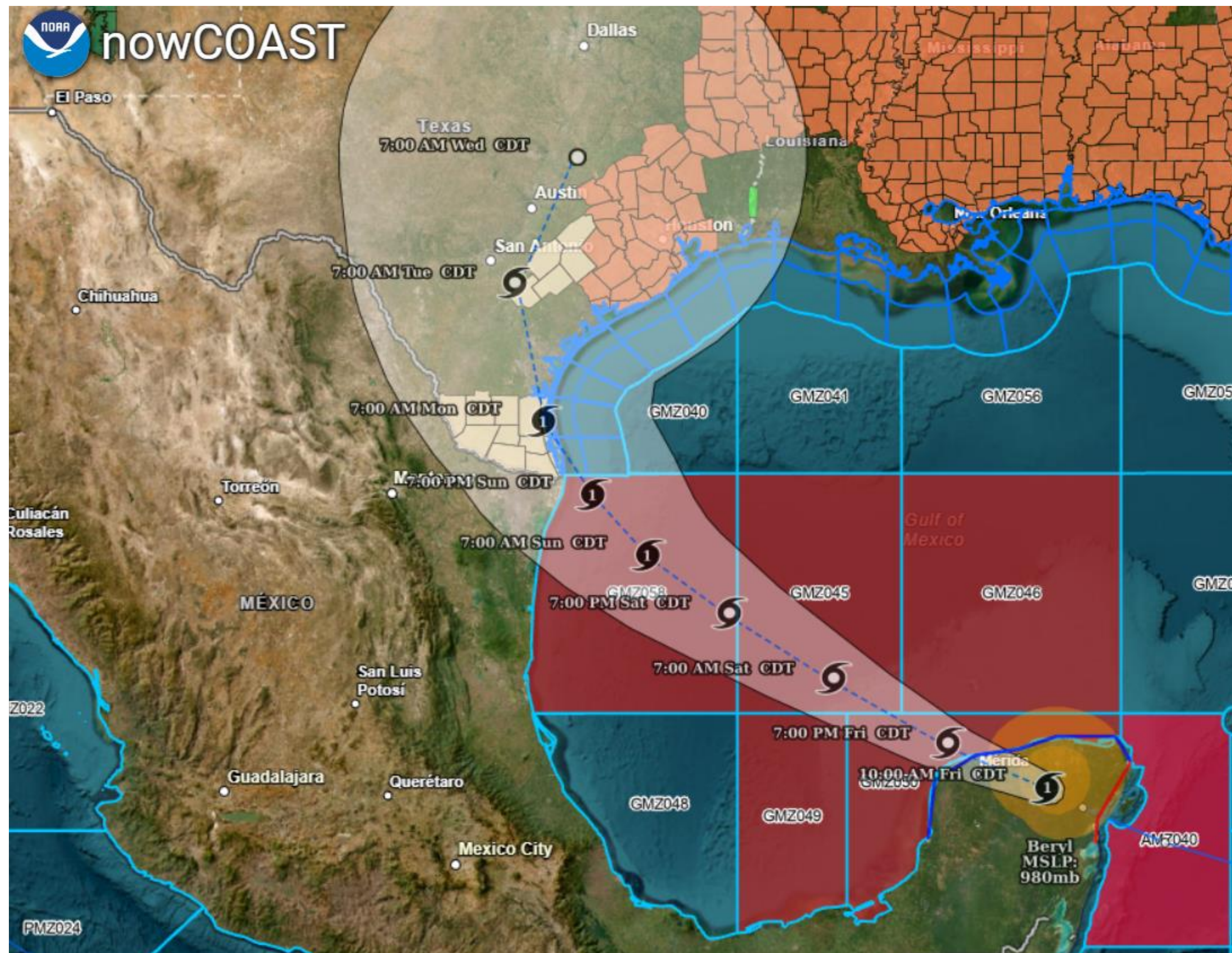
- Beryl
- **Reminder:** *The hatched area represents a possible development area, not the system's path after development occurs.*

Hazards Map

Hurricane Beryl



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NWS National Hurricane Center



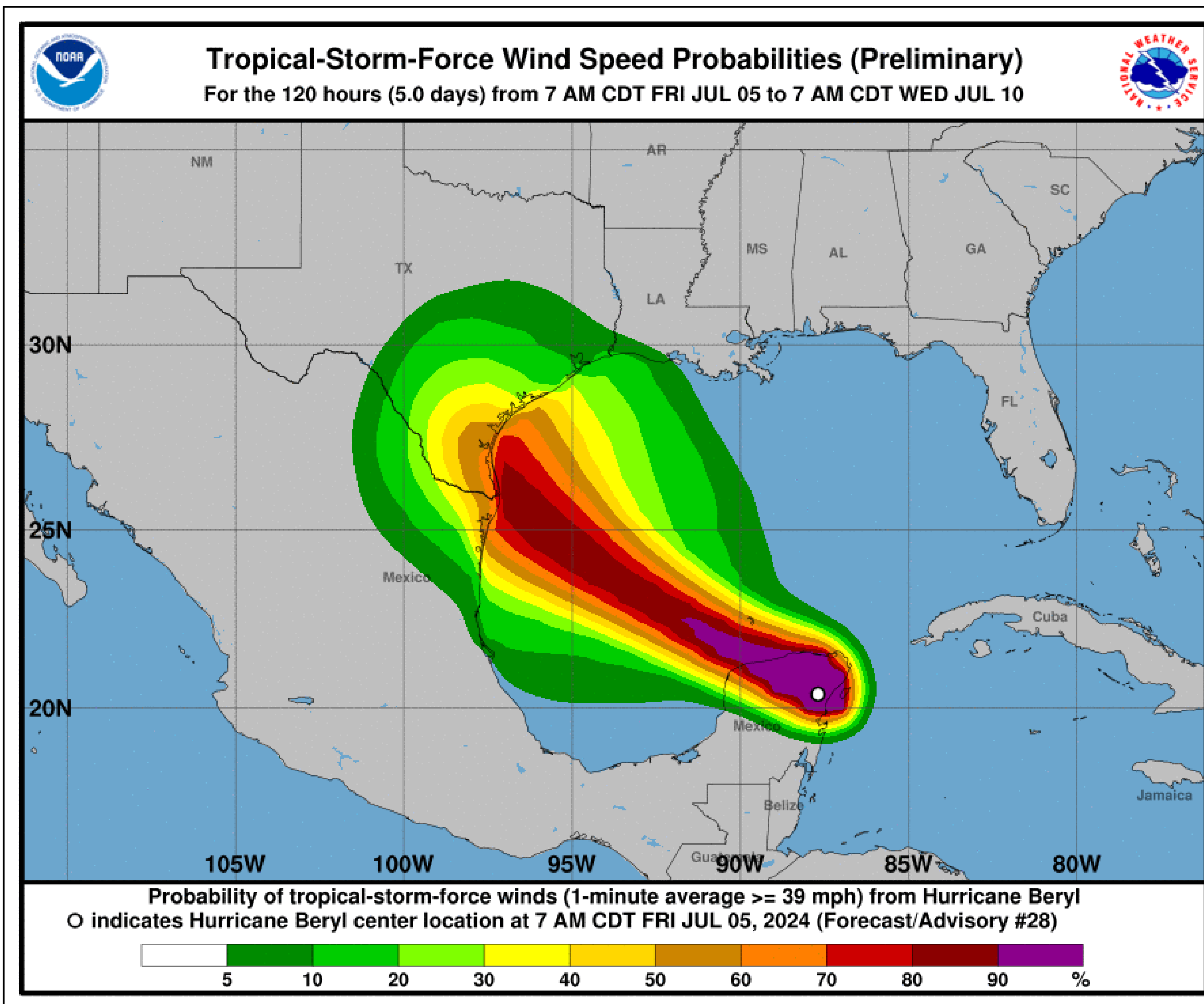
<https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Hurricane Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



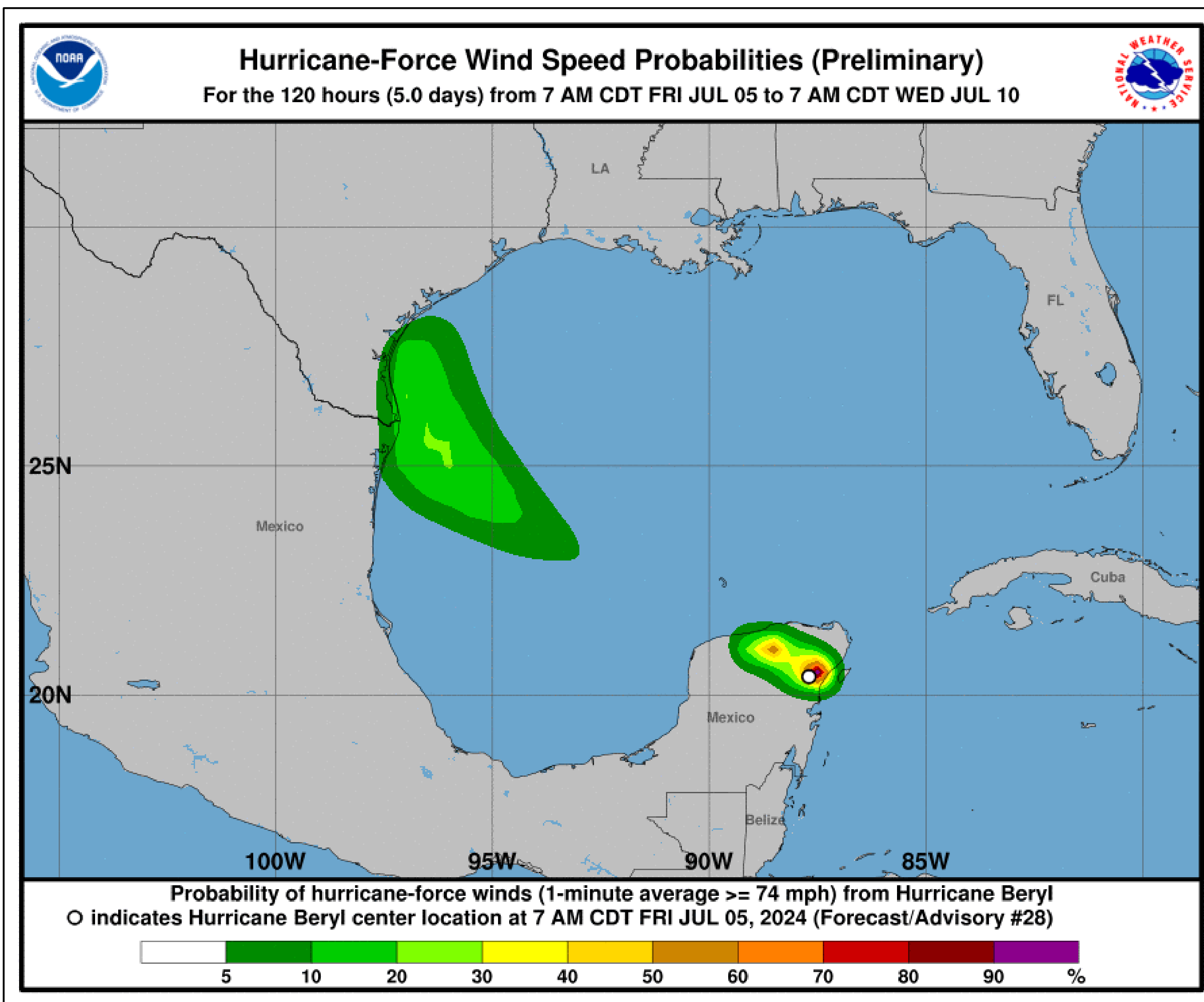
- Port Isabel and Brownsville, TX 70-75%
 - Port Mansfield, TX 65-70%
 - Port Aransas and Corpus Christi, TX 55-60%
 - Port O'Connor, TX 35%
 - Port Lavaca, TX 25-30%
 - Galveston, TX 20%
 - Port Arthur, TX 10%
 - Sabine Pass, TX 10%
 - Cameron, LA 5-10%
-
- Probabilities of sustained tropical storm 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.

Hurricane Wind Speed Probabilities

Hurricane Beryl



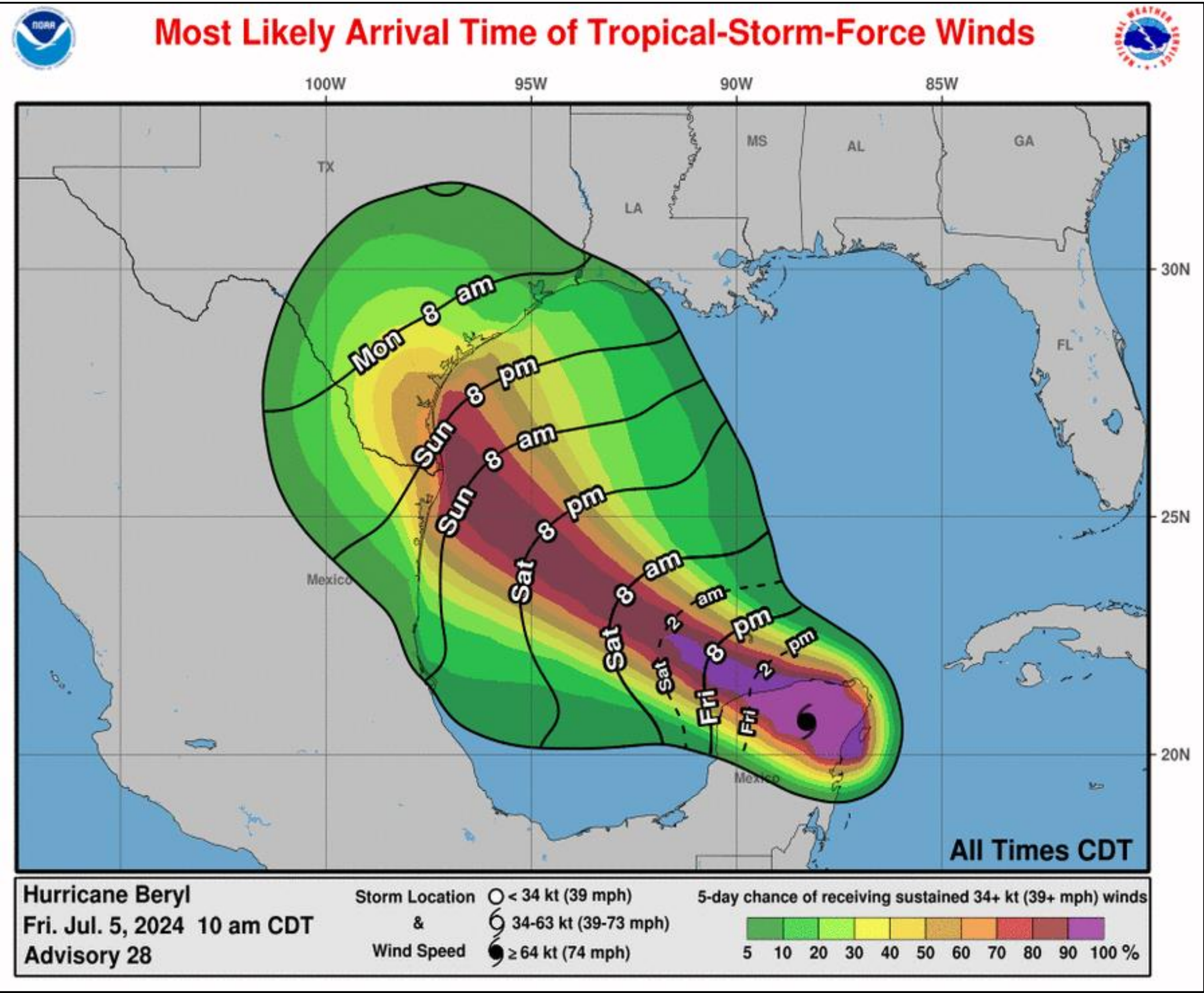
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- Port Isabel and Brownsville, TX 10-15%
- Port Mansfield, TX 5-10%
- Port Aransas and Corpus Christi, TX 5%
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or 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.



Hurricane Beryl



- **Sunday evening into early Monday**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- 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

Hurricane Beryl



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MOST LIKELY

- BROWNSVILLE, TX - Monday morning
- CORPUS CHRISTI, TX – Monday evening
- GALVESTON, TX – Monday evening

LATEST REASONABLE

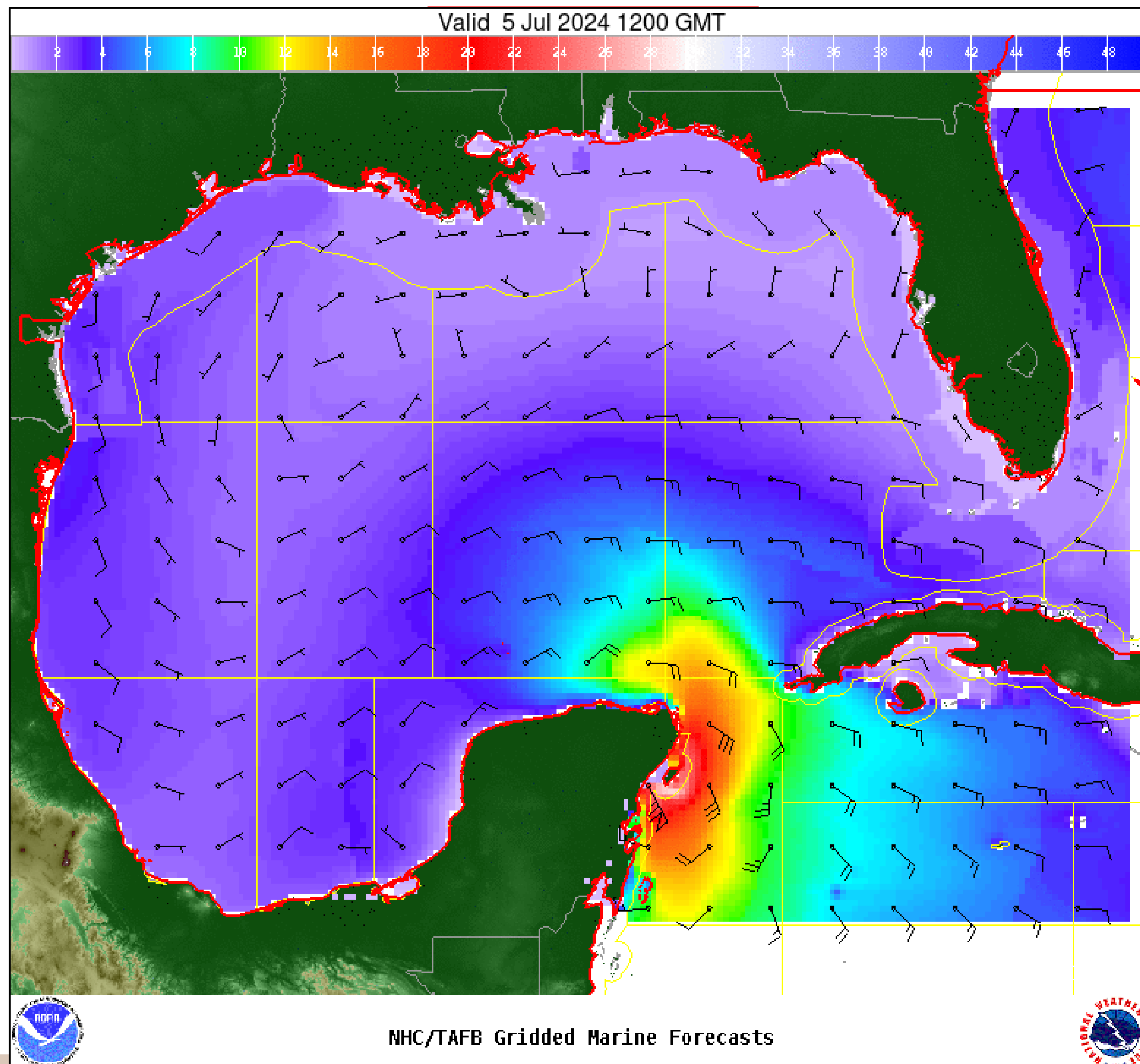
- BROWNSVILLE, TX – Monday evening
- CORPUS CHRISTI, TX – Tuesday morning
- GALVESTON, TX – Wednesday morning

Wind And Waves

Hurricane Beryl



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NWS National Hurricane Center



Current Conditions

Friday Morning

Peak Winds: 75 kt G 100 kt

Peak Seas: 28 ft

- Wave heights are in feet



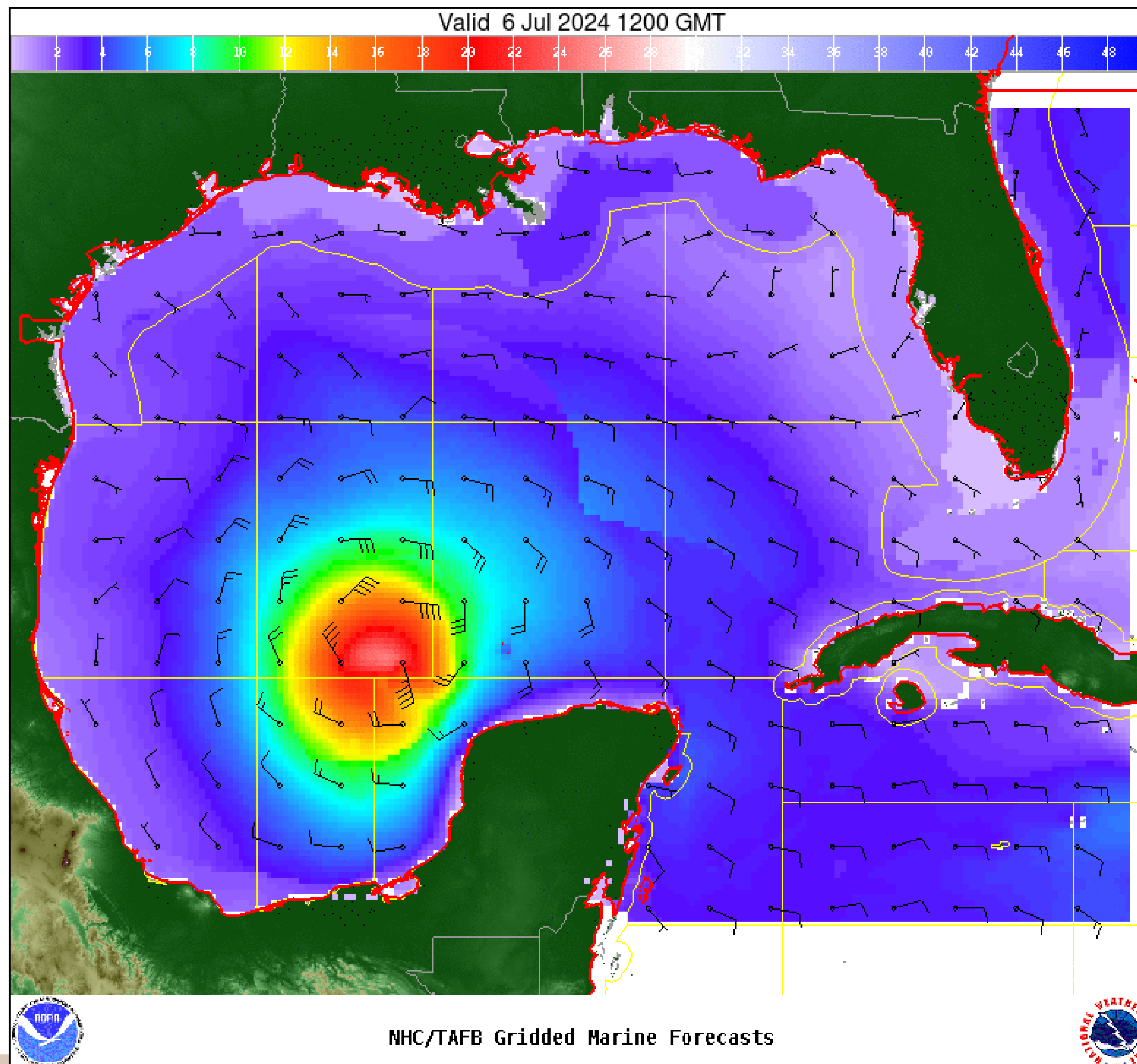
Significant Wave Height (ft)

Wind And Waves

Hurricane Beryl



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NWS National Hurricane Center



24 Hour Forecast

Saturday Morning

Peak Winds: 55 kt G 65 kt

Peak Seas: 25 ft

- Wave heights are in feet



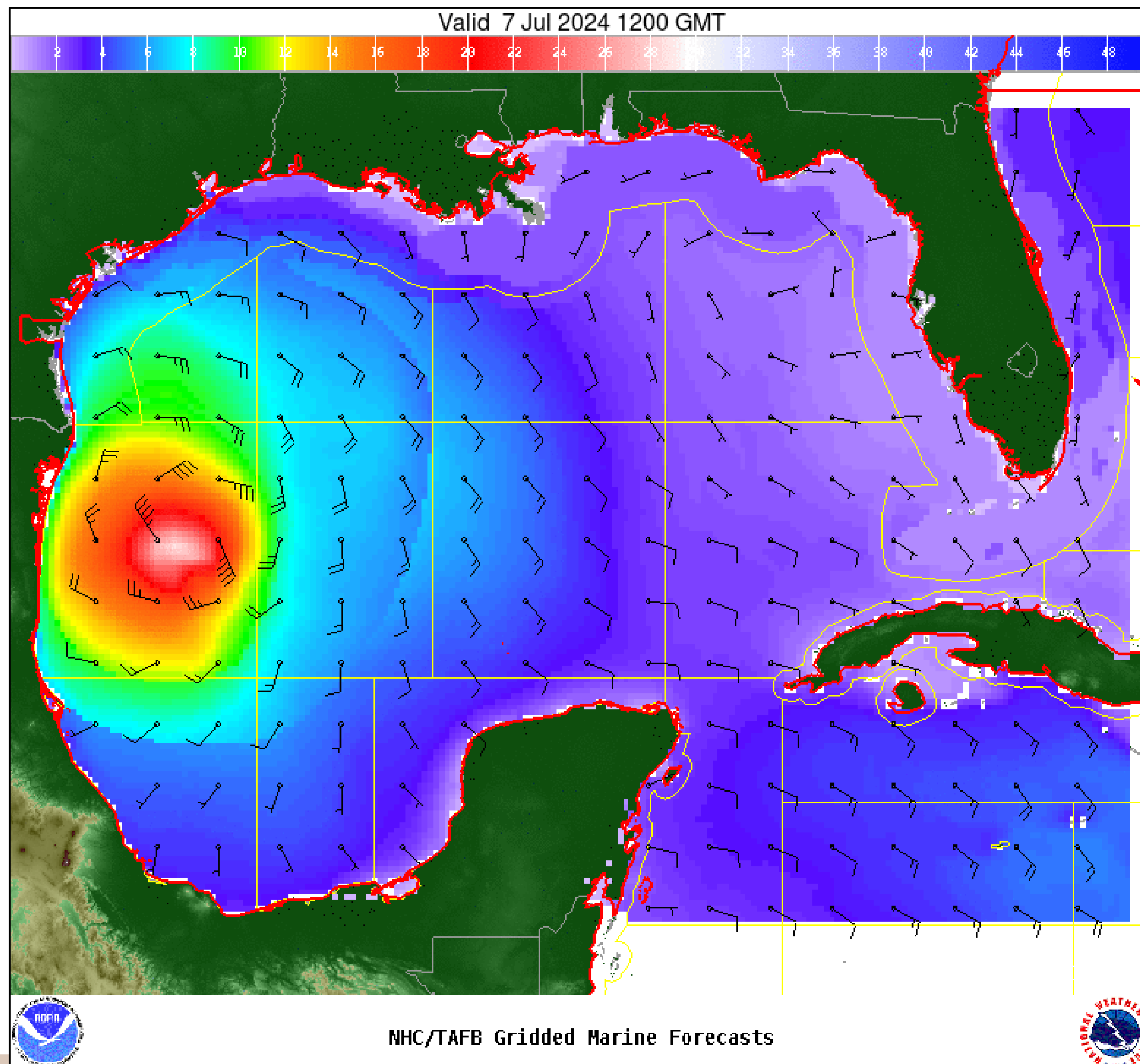
Significant Wave Height (ft)

Wind And Waves

Hurricane Beryl



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48 Hour Forecast

Sunday Morning

Peak Winds: 65 kt G 80 kt

Peak Seas: 28 ft

■ Wave heights are in feet



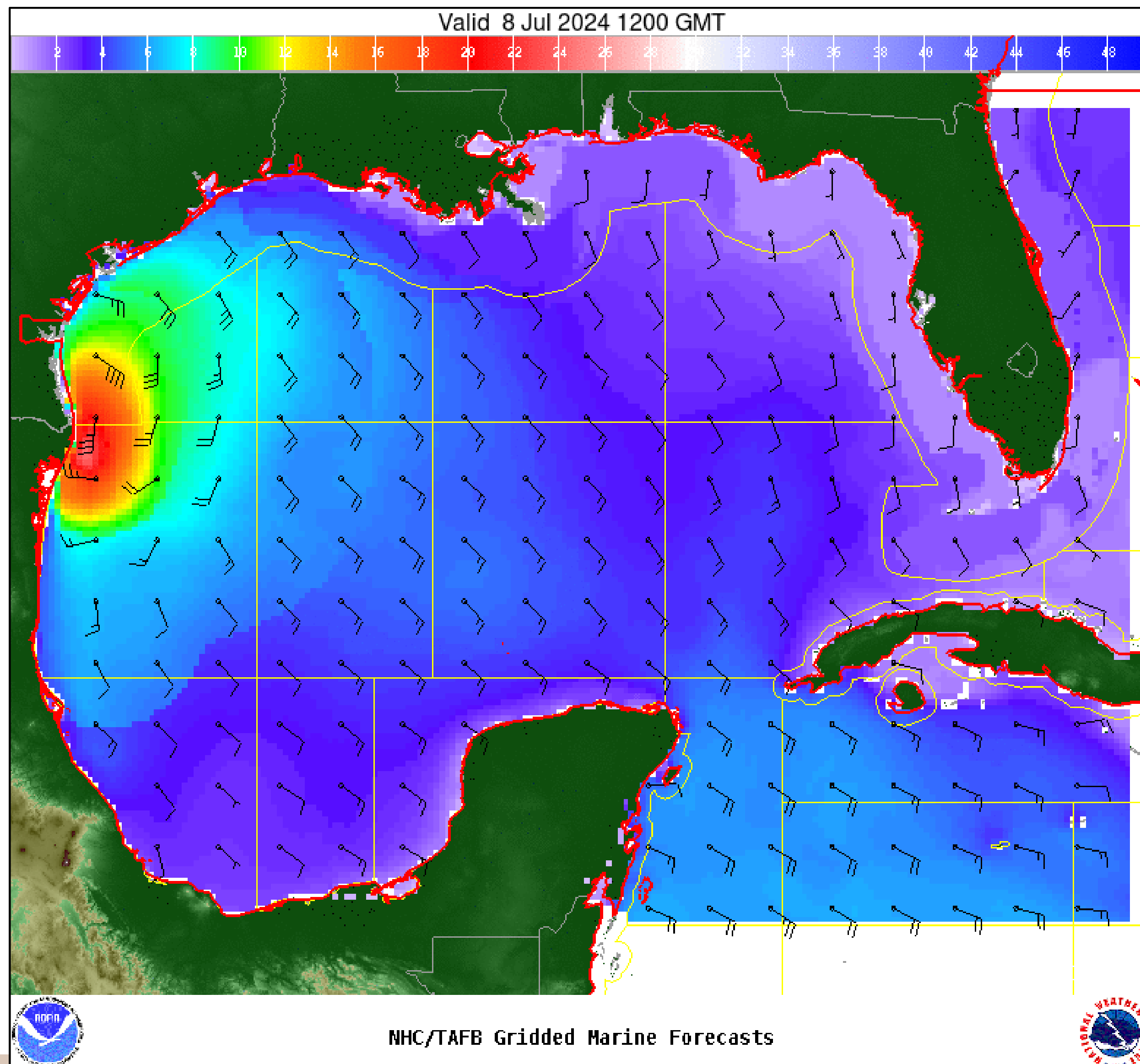
Significant Wave Height (ft)

Wind And Waves

Hurricane Beryl



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NWS National Hurricane Center



72 Hour Forecast

Monday Morning

Peak Winds: 75 kt G 90 kt

Peak Seas: 26 ft

- Wave heights are in feet



Significant Wave Height (ft)

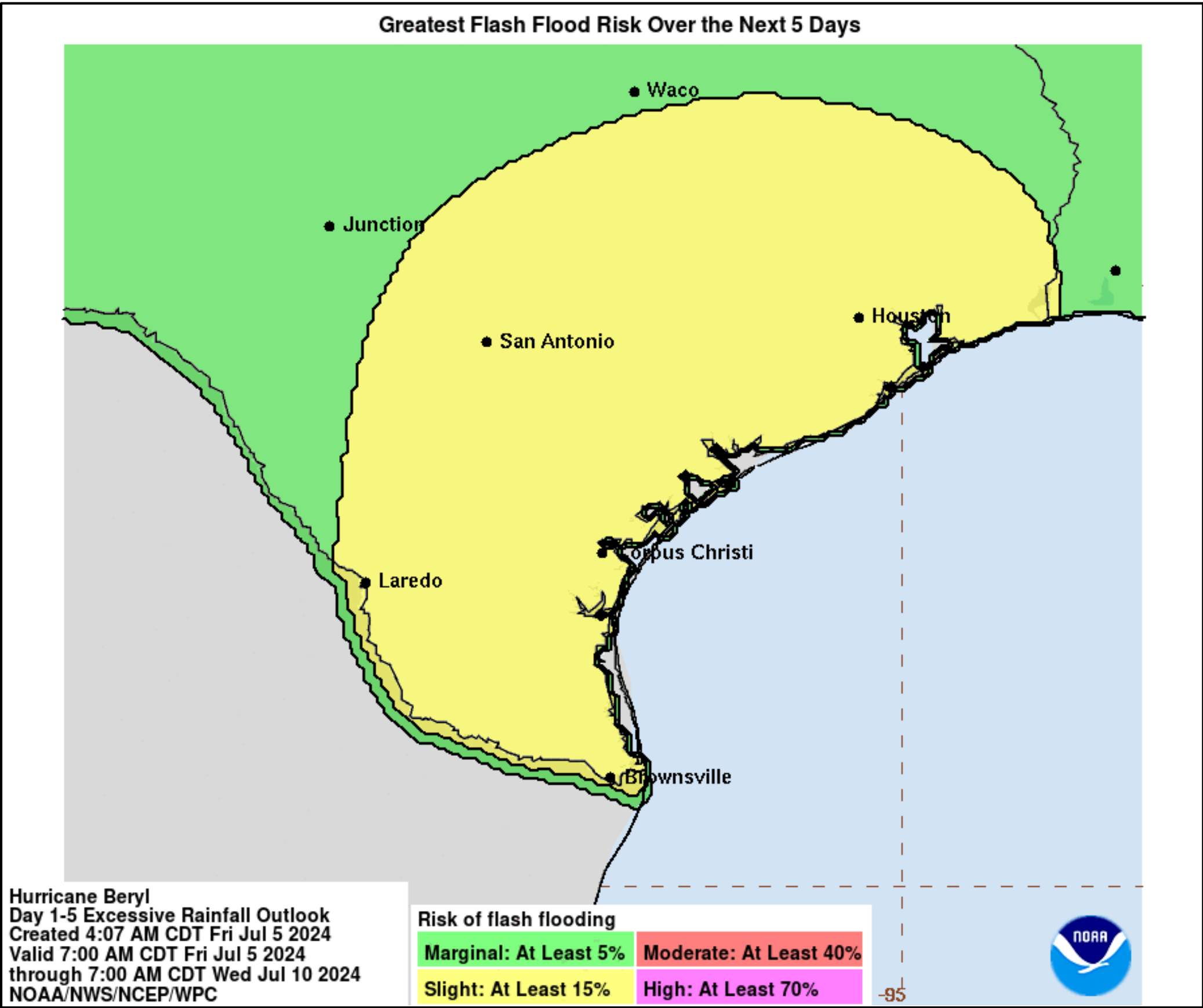
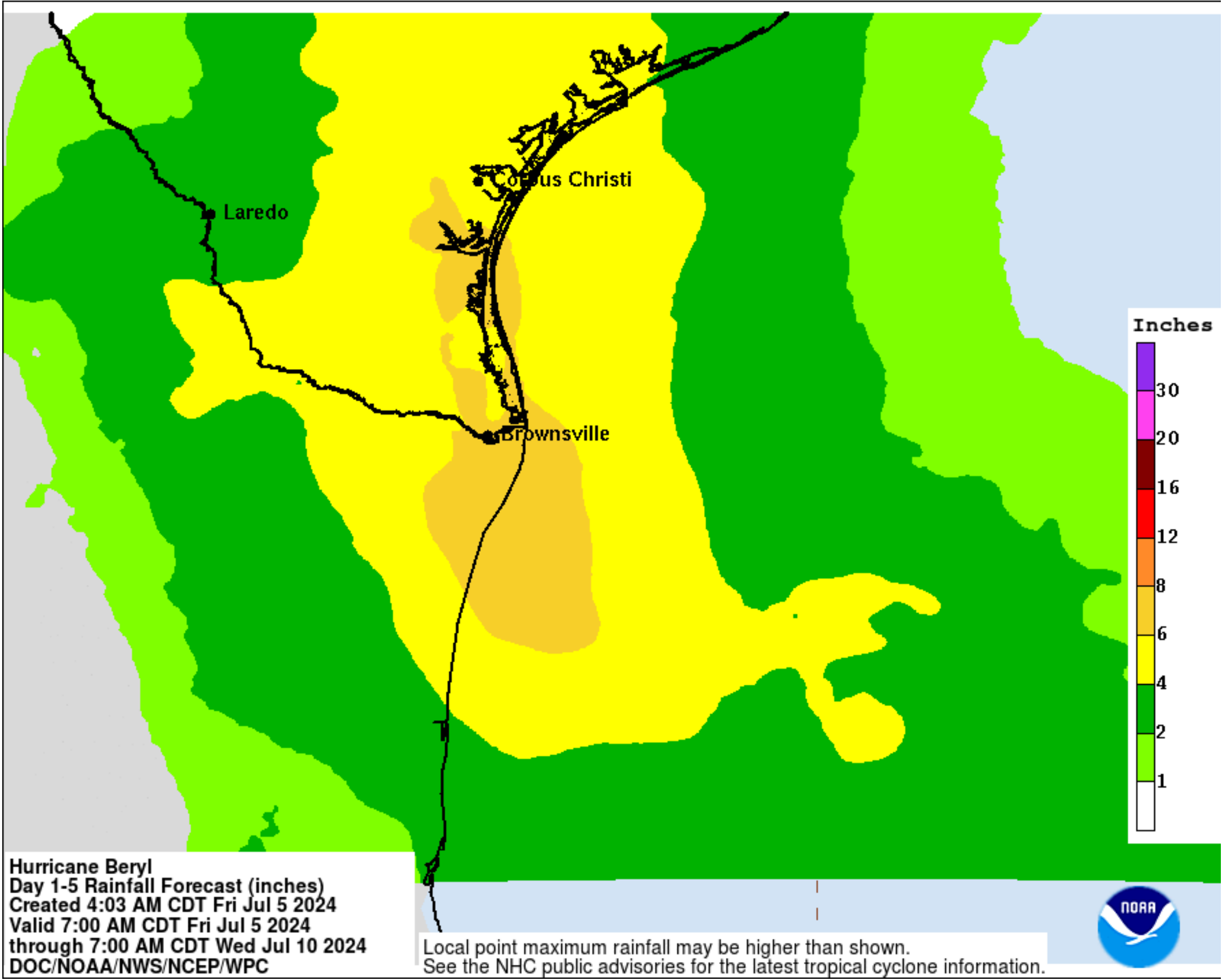
Expected Storm Total Rainfall and Chance of Rainfall Flooding

Hurricane Beryl

Images from NWS Weather Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Risk of rainfall exceeding flash flood guidance
within 25 miles of a point

HIGH: > 50% **SLGT: 10%-20%**
MDT: 20%-50% **MRGL: 5%-10%**



Refer to map legend for Valid Time

Key Messages

Hurricane Beryl




Tropical Analysis and Forecast Branch
NWS National Hurricane Center




Key Messages for Hurricane Beryl

Advisory 28: 10:00 AM CDT Fri Jul 05, 2024

1. Dangerous winds, storm surge, and heavy rainfall will continue over portions of the Yucatan Peninsula within the warning areas today. Residents there should shelter in place until these life-threatening conditions subside.
2. There is an increasing risk of hurricane-force winds, life-threatening storm surge, and flooding from heavy rainfall in portions of northeastern Mexico and the lower and middle Texas coast late Sunday and Monday. Interests in these areas should closely monitor updates to the forecast. Storm Surge, Hurricane and Tropical Storm Watches will likely be issued later today.
3. Rip currents will cause life-threatening beach conditions beginning late today and continuing through the weekend across much of the Gulf coast. Beachgoers should heed warning flags and the advice of lifeguards and local officials before venturing into the water.



Hurricane Beryl	Current information: x	Forecast positions:
Friday July 05, 2024	Center location 20.7 N 88.3 W	● Tropical Cyclone ○ Post-Potential TC
10 AM CDT Advisory 28	Maximum sustained wind 85 mph	Sustained winds: D < 39 mph
NWS National Hurricane Center	Movement WNW at 16 mph	S 39-73 mph H 74-110 mph M > 110 mph



Tropical-Storm-Force Wind Speed Probabilities (Preliminary)
For the 120 hours (5.0 days) from 7 AM CDT FRI JUL 05 to 7 AM CDT WED JUL 10

Probability of tropical-storm-force winds (1-minute average >= 39 mph) from Hurricane Beryl
○ Indicates Hurricane Beryl center location at 7 AM CDT FRI JUL 05, 2024 (Forecast Advisory #28)

For more information go to hurricanes.gov

IMPACTS FOR **D8** (through next 5 days)

Winds – **Moderate to High**

Storm Surge – **Low to Moderate**

Rainfall/Flash Flooding – **Moderate**

Tornadoes – **Low**

Waves - **High**

MARINE KEY MESSAGES:

- Seas will build as Beryl re-strengthens once it emerges in the Gulf of Mexico



HURRICANE BERYL BRIEFING

You can contact the Tropical Analysis and Forecast Branch at
305-229-4424

*The Next Briefing Will Be:
Saturday / 1:00 AM CDT*

You can always find get the latest graphics and information for this storm at www.hurricanes.gov



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