

IMPACTS FOR D8 (through next 5 days)

Winds – High

Storm Surge – Moderate

Rainfall/Flash Flooding – High

Tornadoes – Moderate

Waves - High

TROPICAL STORM BERYL BRIEFING



11:00 AM CDT
Sunday, July 7, 2024

Prepared by:

Wallace Hogsett

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

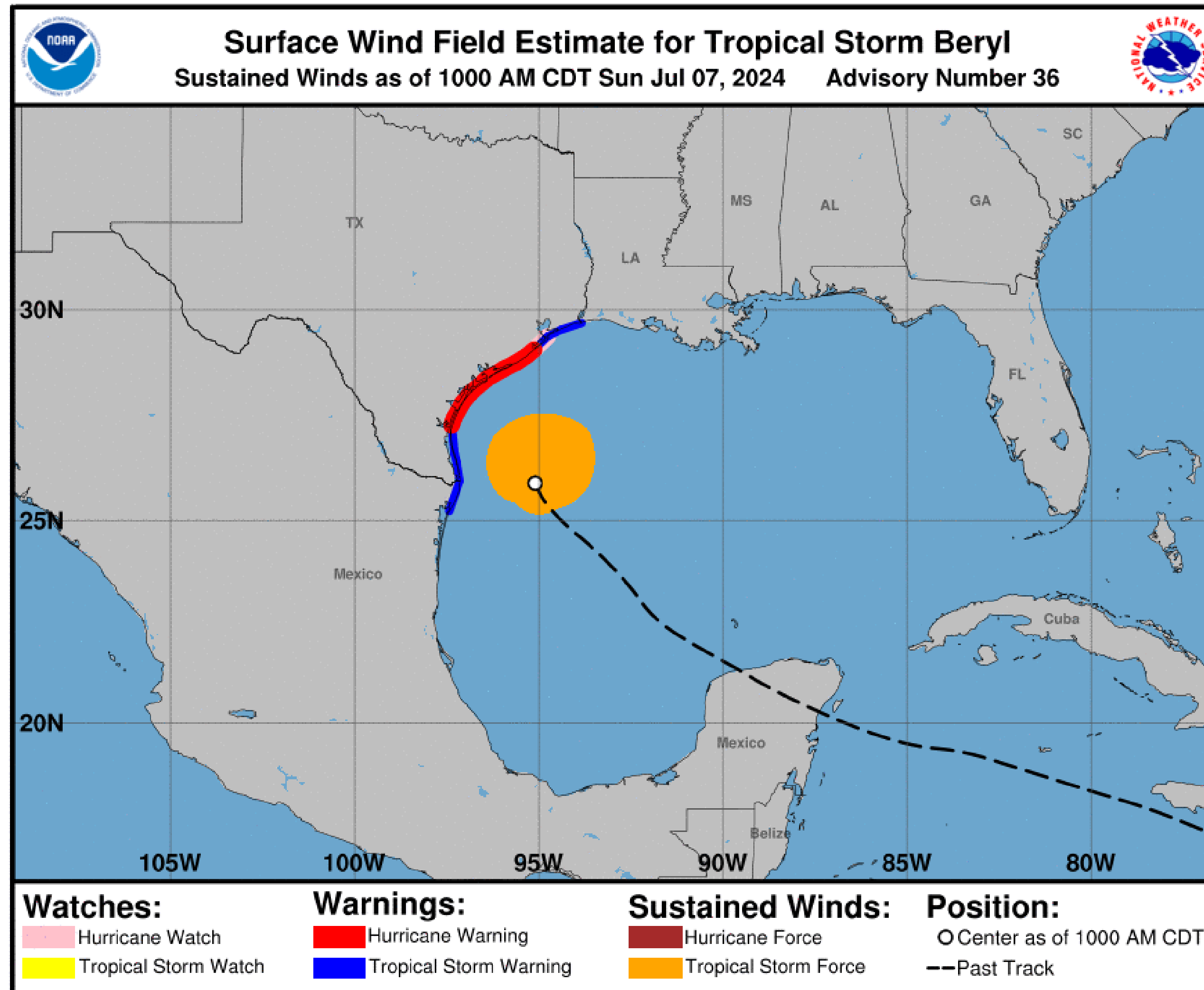
www.nhc.noaa.gov

Situation Overview

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



**...BERYL BECOMING BETTER ORGANIZED
AND FORECAST TO BECOME A
HURRICANE BEFORE LANDFALL...
...PREPARATIONS SHOULD BE RUSHED
TO COMPLETION...**

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

Location... 25.9N 95.1W

About 170 nm...SSE of Matagorda, TX

About 170 nm... SE of Corpus Christi, TX

Maximum Sustained Winds... 55 kt

Present Movement... NW or 325 degrees at 9 kt

Size:

50 KT..... 40NE 0SE 0SW 30NW.

34 KT..... 110NE 50SE 40SW 90NW.

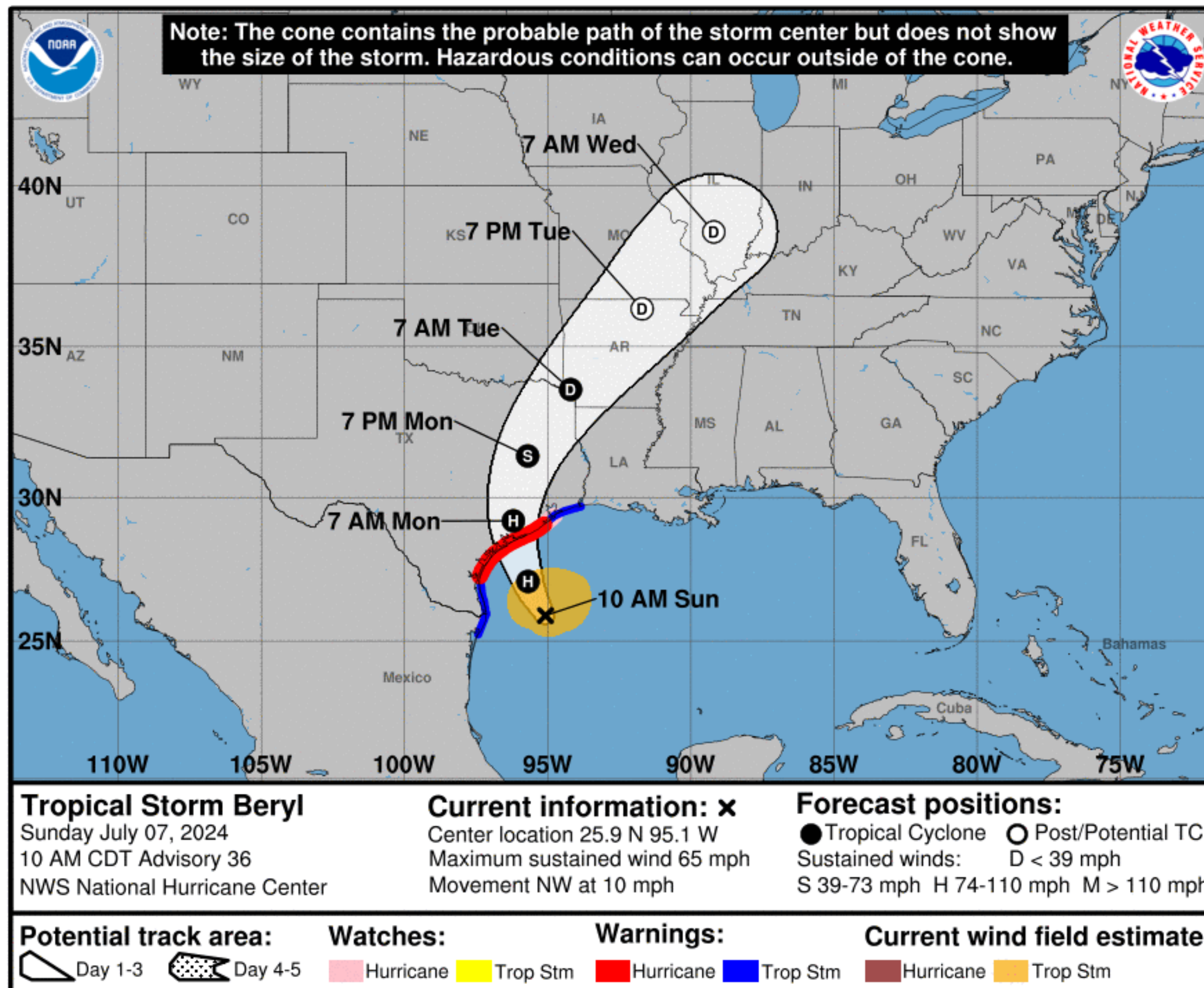
12 FT SEAS.. 120NE 60SE 75SW 90NW.

Forecast Information

Tropical Storm Beryl



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

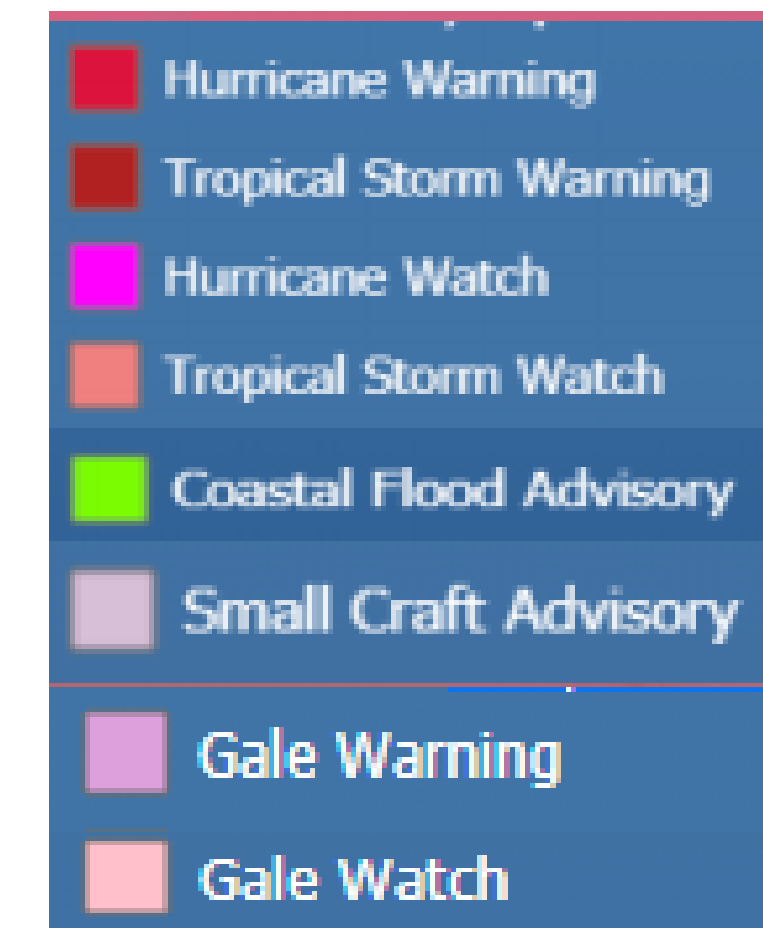
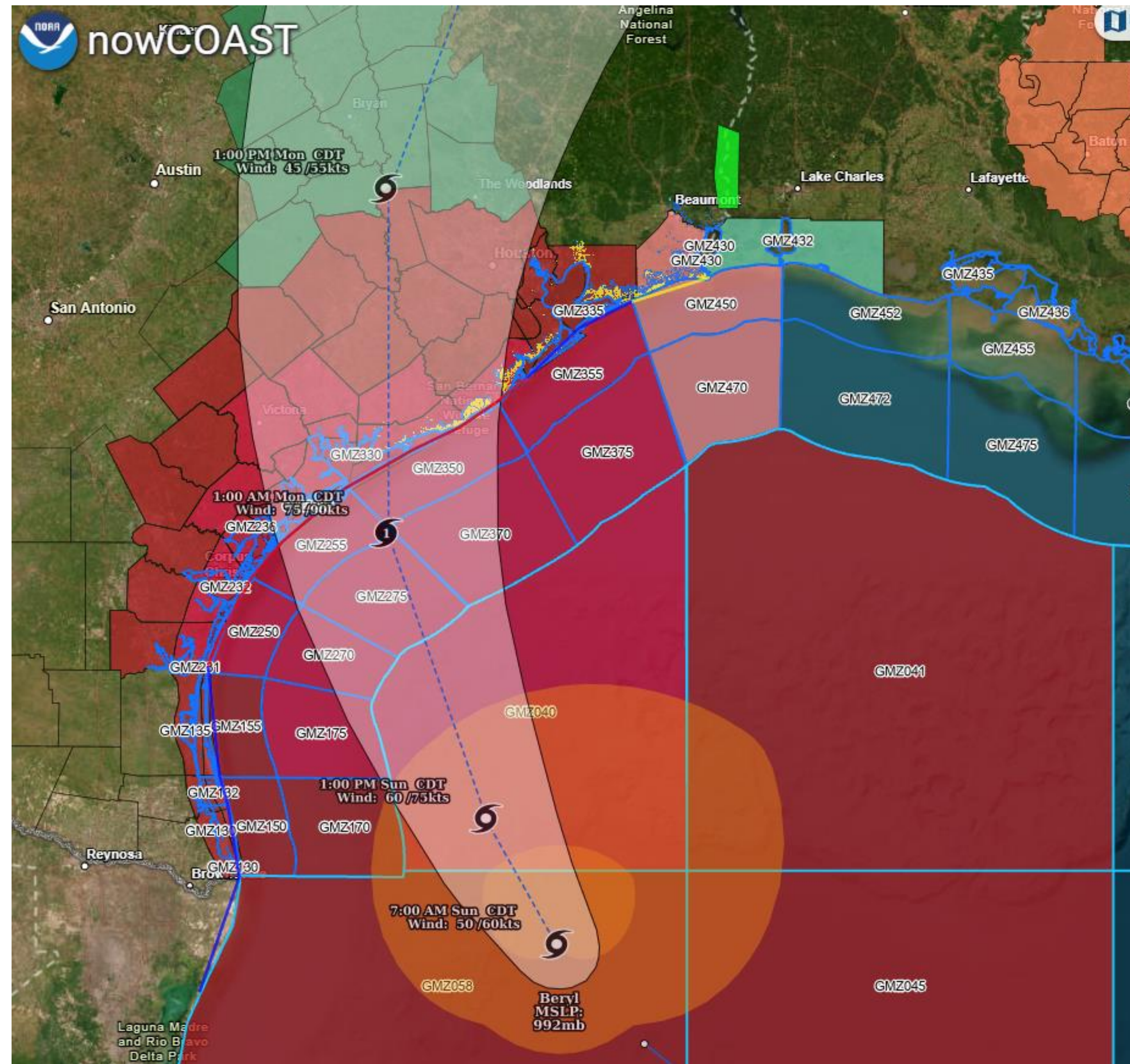
- Beryl forecast to turn more northward today and make landfall late tonight or tomorrow morning along the central Texas coast
 - Beryl expected to make landfall as either a Category 1 or 2 hurricane
 - White swath of potential track error added to each side of the forecast track through day 3
- ** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



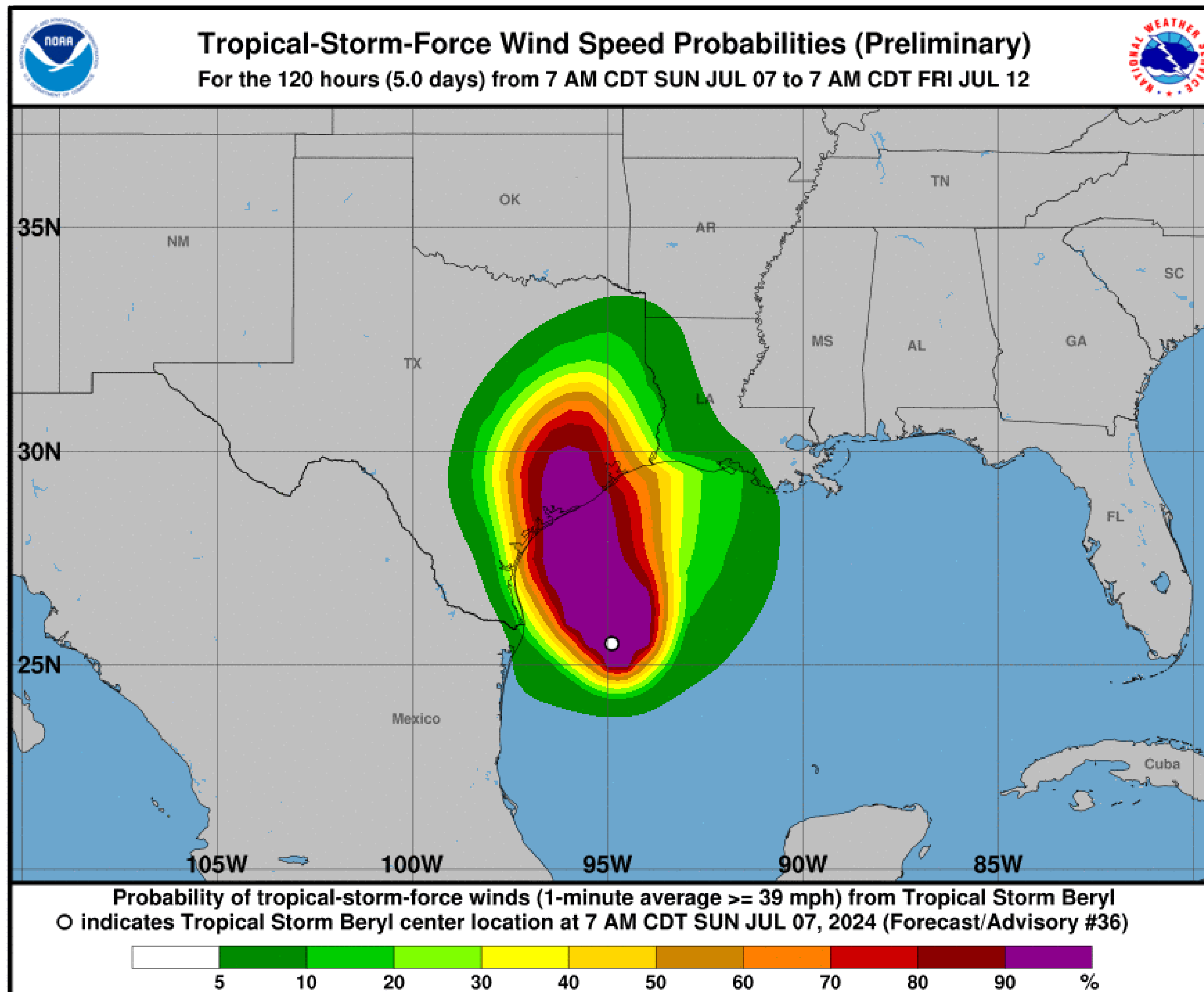
<https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- Brownsville, TX: 5%
 - Port Isabel, TX: 10%
 - Port Mansfield, TX: 10%
 - Corpus Christi, TX: 30%
 - Port Aransas, TX: 60%
 - Port O'Connor, TX: 90%+
 - Port Lavaca, TX: 90%+
 - Galveston, TX: 80%
 - Houston, TX: 80%
 - Port Arthur, TX: 25%
 - Cameron, LA: 30%
- 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

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



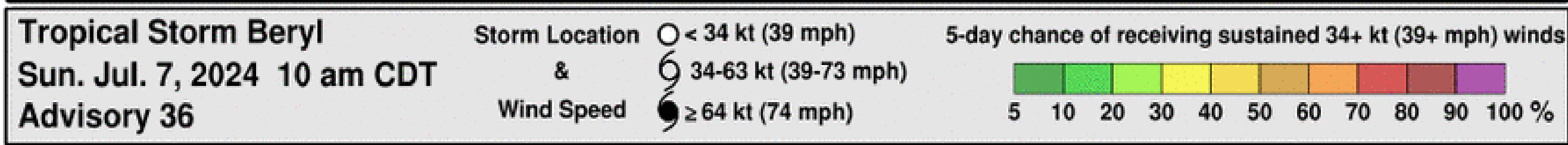
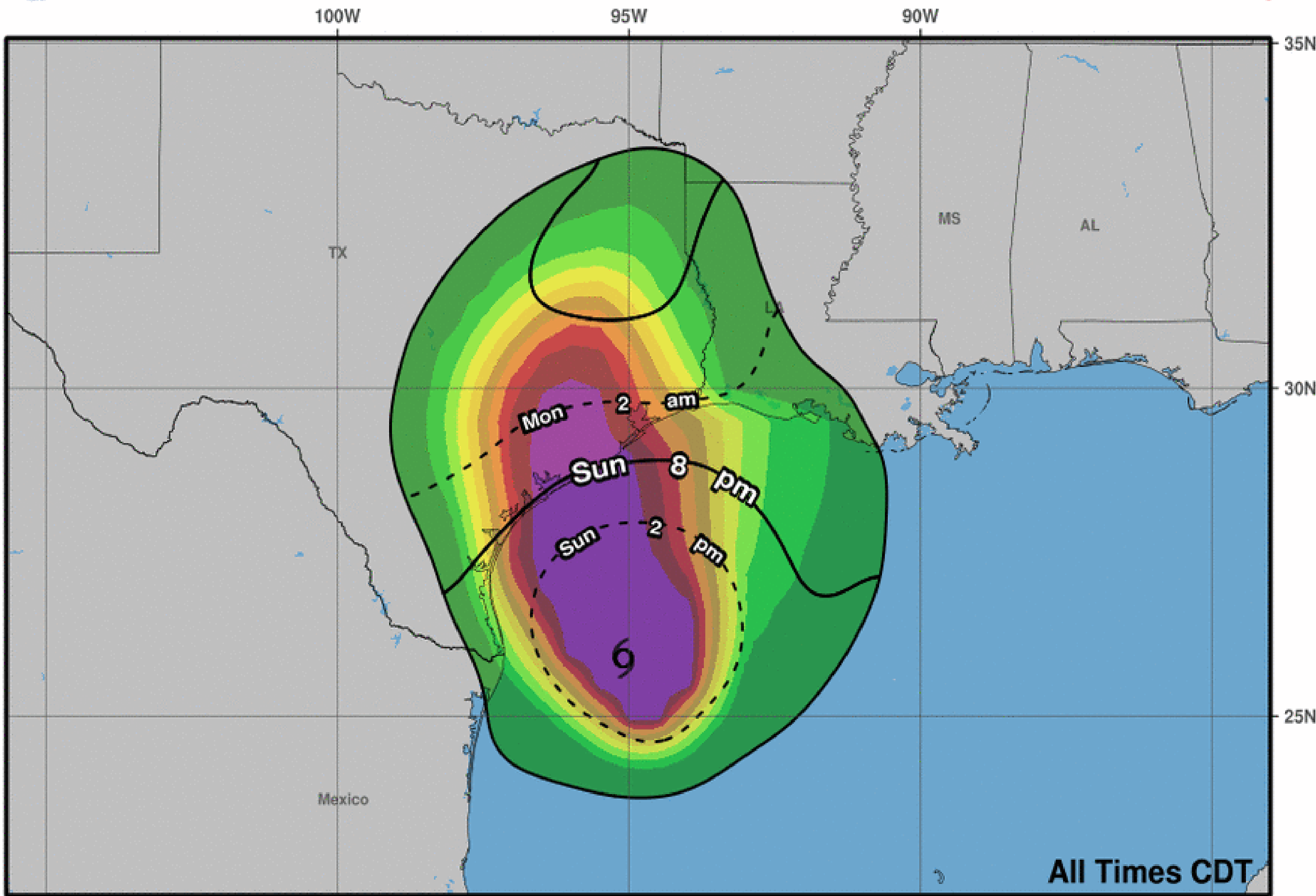
- Port Aransas, TX: 5%
- Port Lavaca, TX: 5-10%
- Port O'Connor, TX: 10-20%
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.



Tropical Storm Beryl



Most Likely Arrival Time of Tropical-Storm-Force Winds



- Tropical Storm (TS) force winds will be impacting extreme south Texas shortly
- TS winds will begin impacting locations northward along the middle and upper Texas coast this evening and early tomorrow
- 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

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Most Likely // **Latest Reasonable**

Brownsville, TX:

Sunday Afternoon // **Monday Morning**

Corpus Christi, TX:

Sunday Night // **Monday Mid-Day**

Galveston, TX:

Monday Morning // **Monday Afternoon**

Houston, TX:

Monday Mid-Day // **Monday Afternoon**

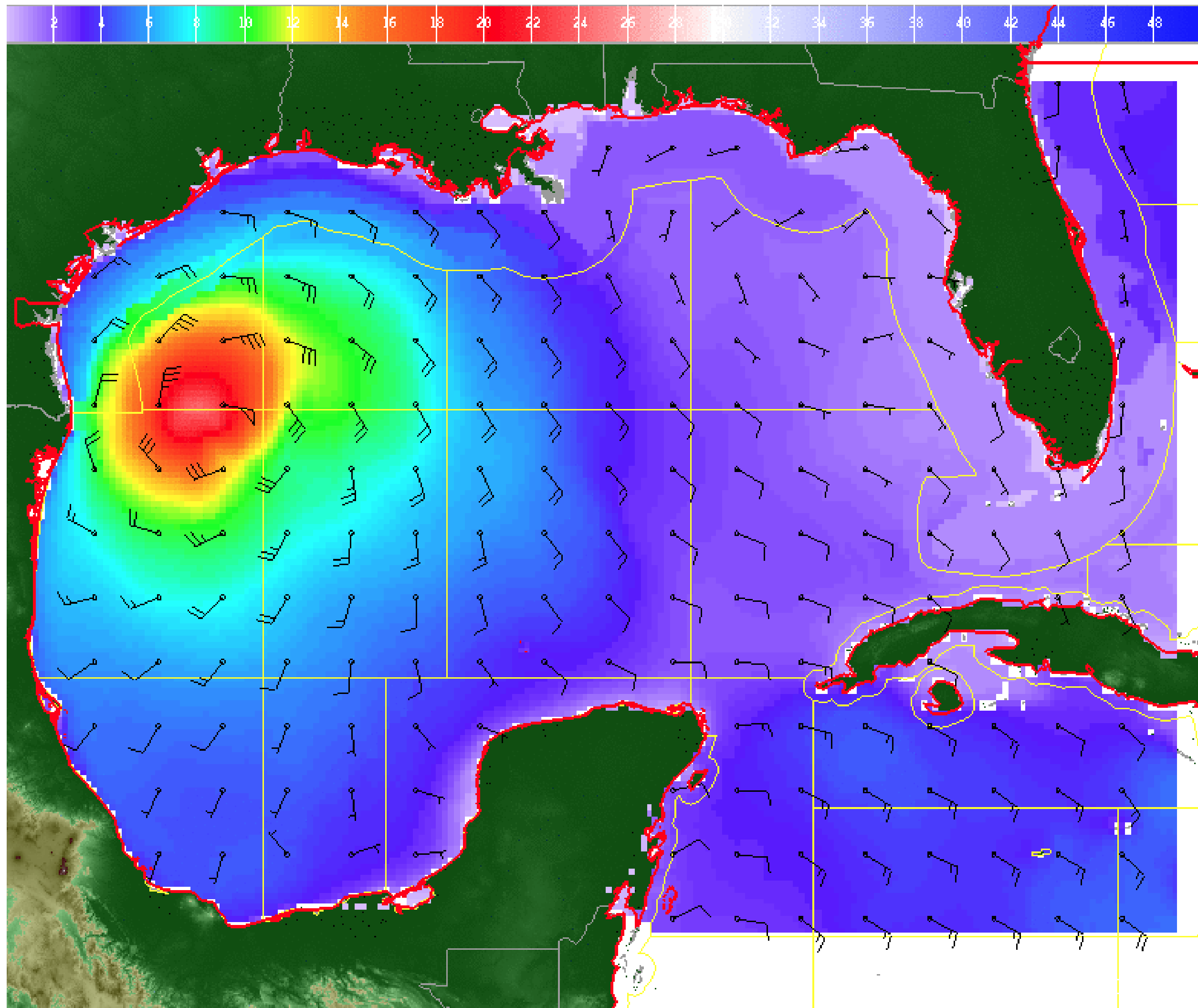
Wind And Waves

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Valid 7 Jul 2024 1200 GMT



Current Conditions

Sunday Morning

Peak Winds: 55 kt

Peak Seas: ~25 ft

- Wave heights are in feet



Significant Wave Height (ft)

NHC/TAFB Gridded Marine Forecasts

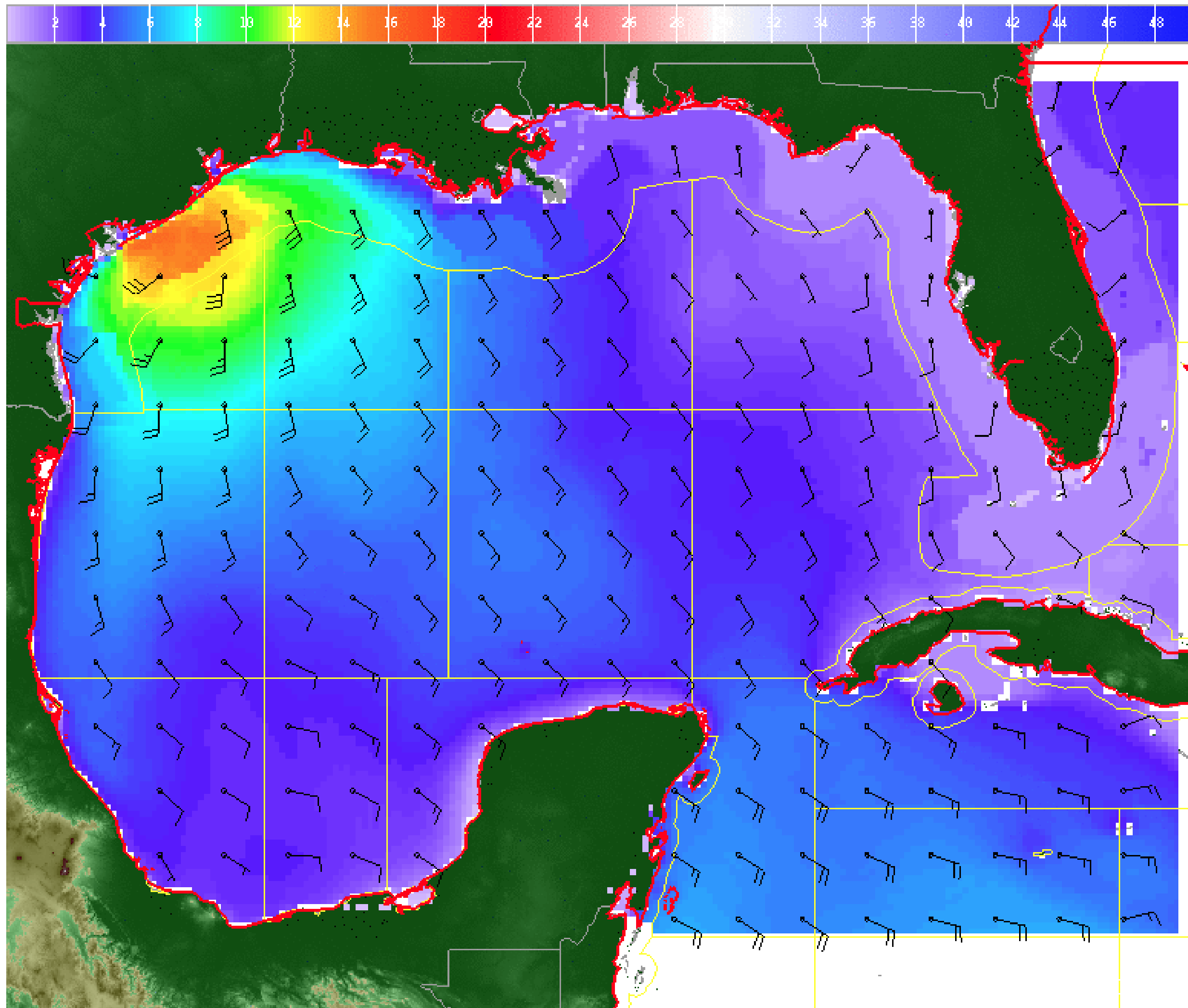
Wind And Waves

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Valid 8 Jul 2024 1200 GMT



24 Hour Forecast

Monday Morning

Peak Winds: 40 kt

Peak Seas: ~18 ft

■ Wave heights are in feet



Significant Wave Height (ft)

NHC/TAFB Gridded Marine Forecasts

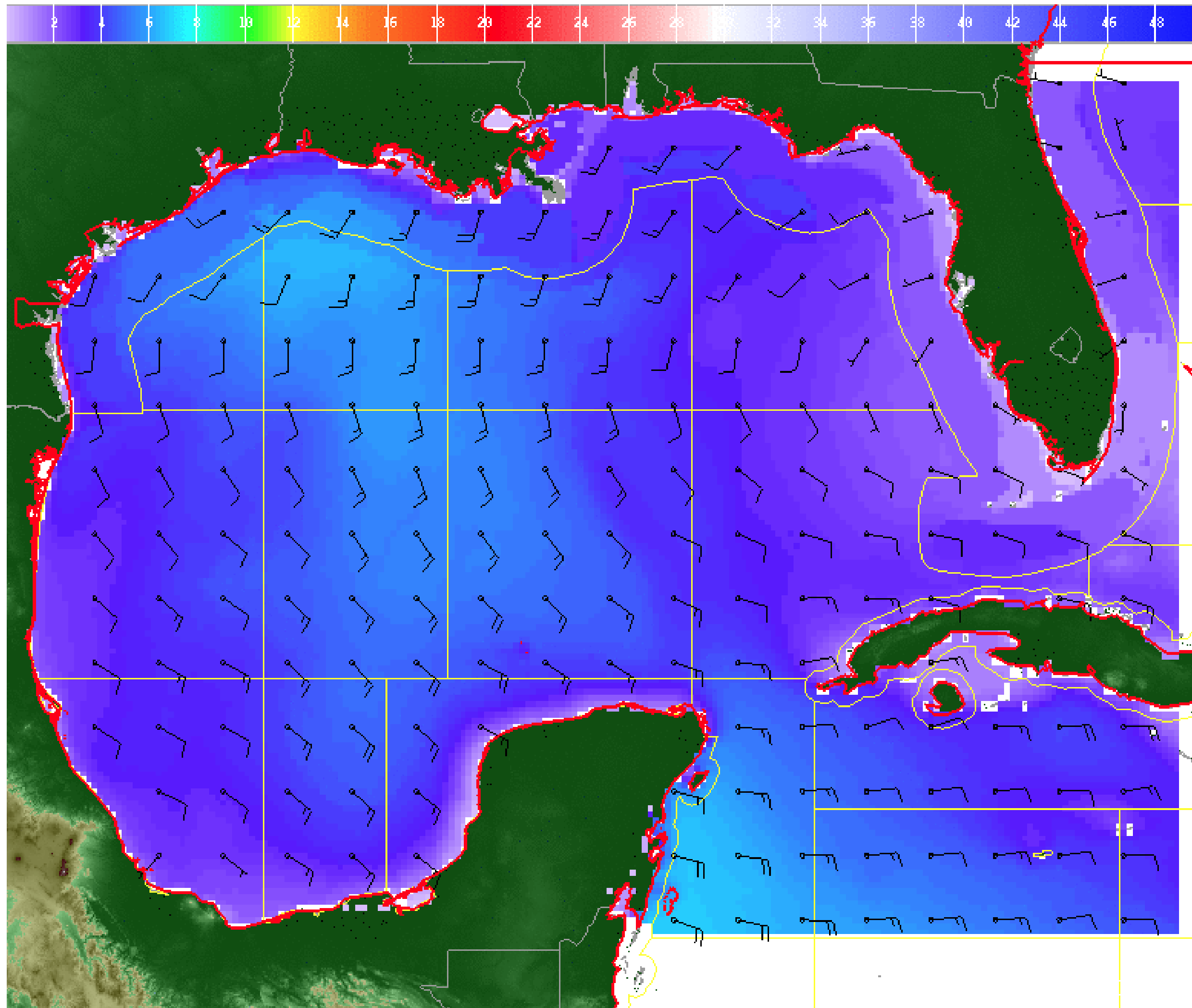
Wind And Waves

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Valid 9 Jul 2024 1200 GMT



48 Hour Forecast

Tuesday Morning

Peak Winds: 20 kt

Peak Seas: ~8 ft

- Wave heights are in feet



Significant Wave Height (ft)

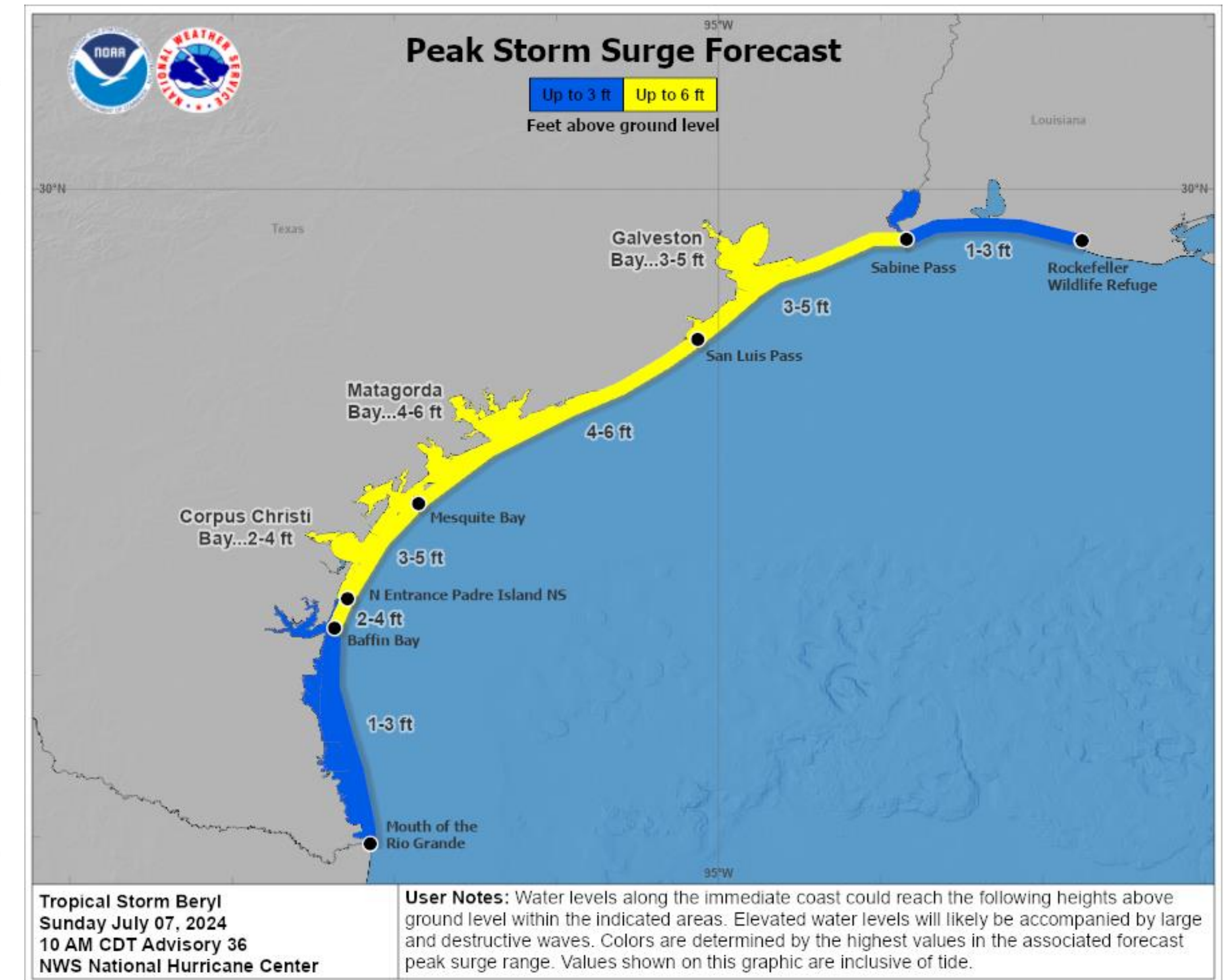
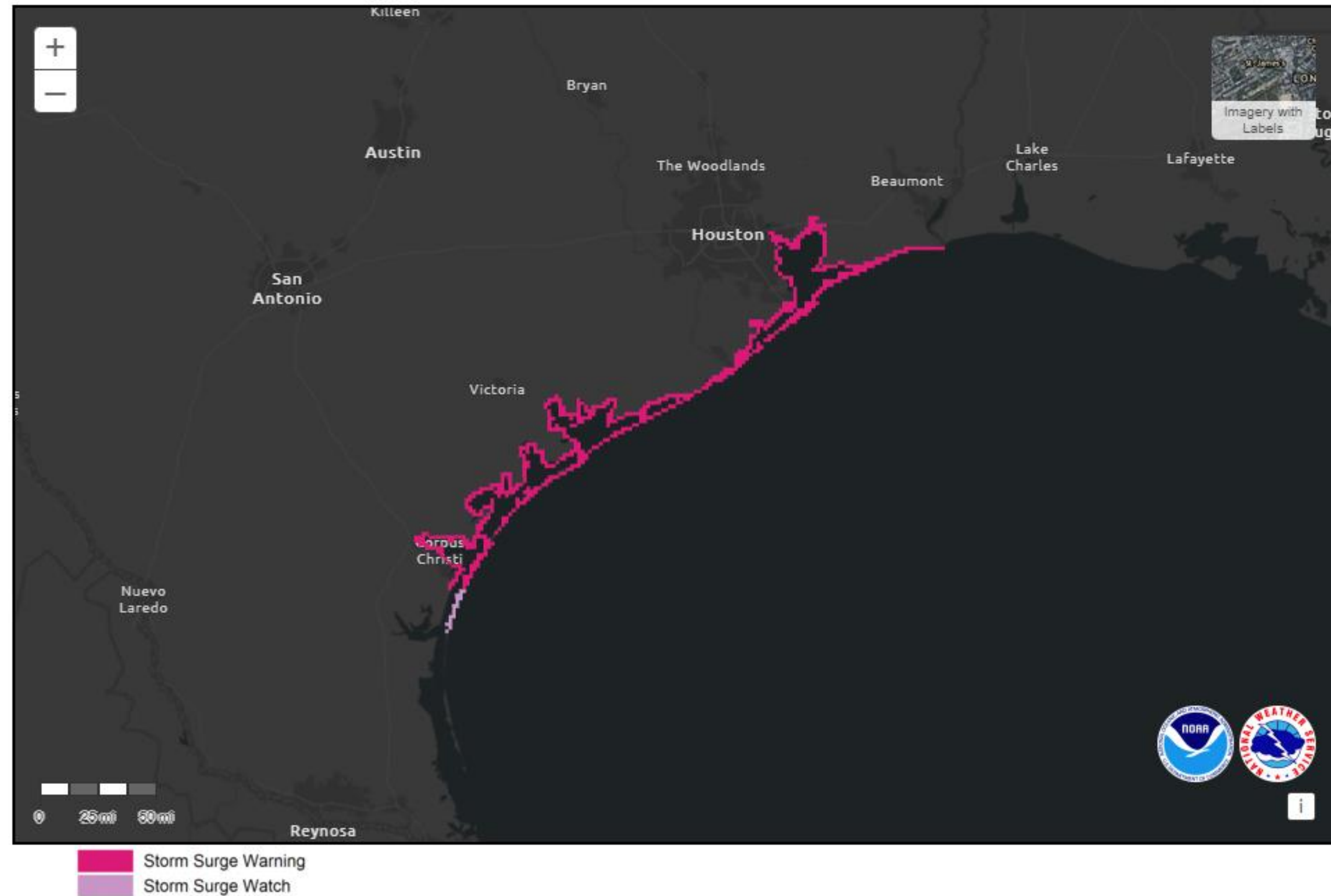
NHC/TAFB Gridded Marine Forecasts

Potential Peak Storm Surge / Watches and Warnings



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Beryl



- A Storm Surge Warning is in effect for...
- * North Entrance of the Padre Island National Seashore to Sabine Pass, including Corpus Christi Bay, Matagorda Bay, and Galveston Bay

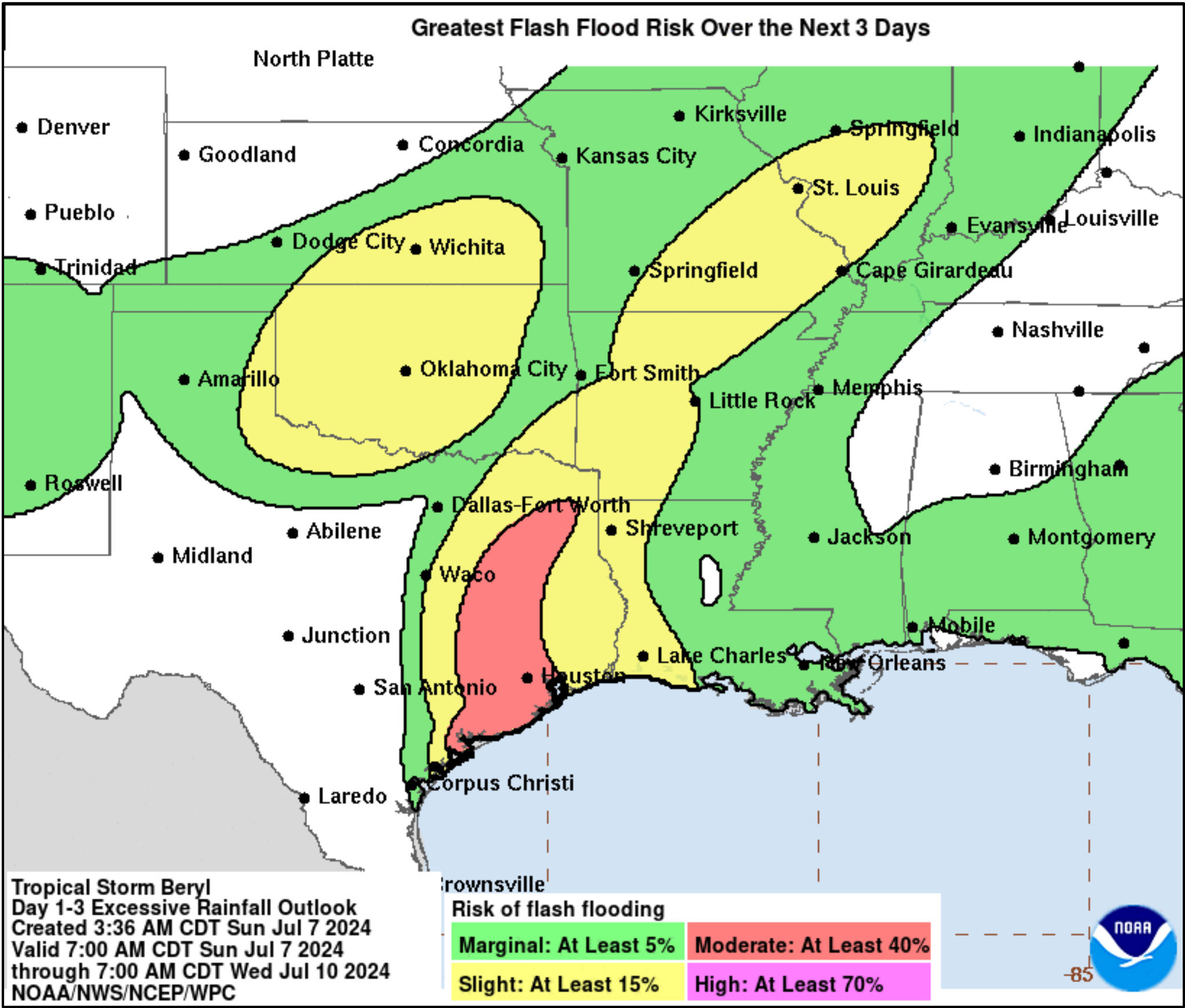
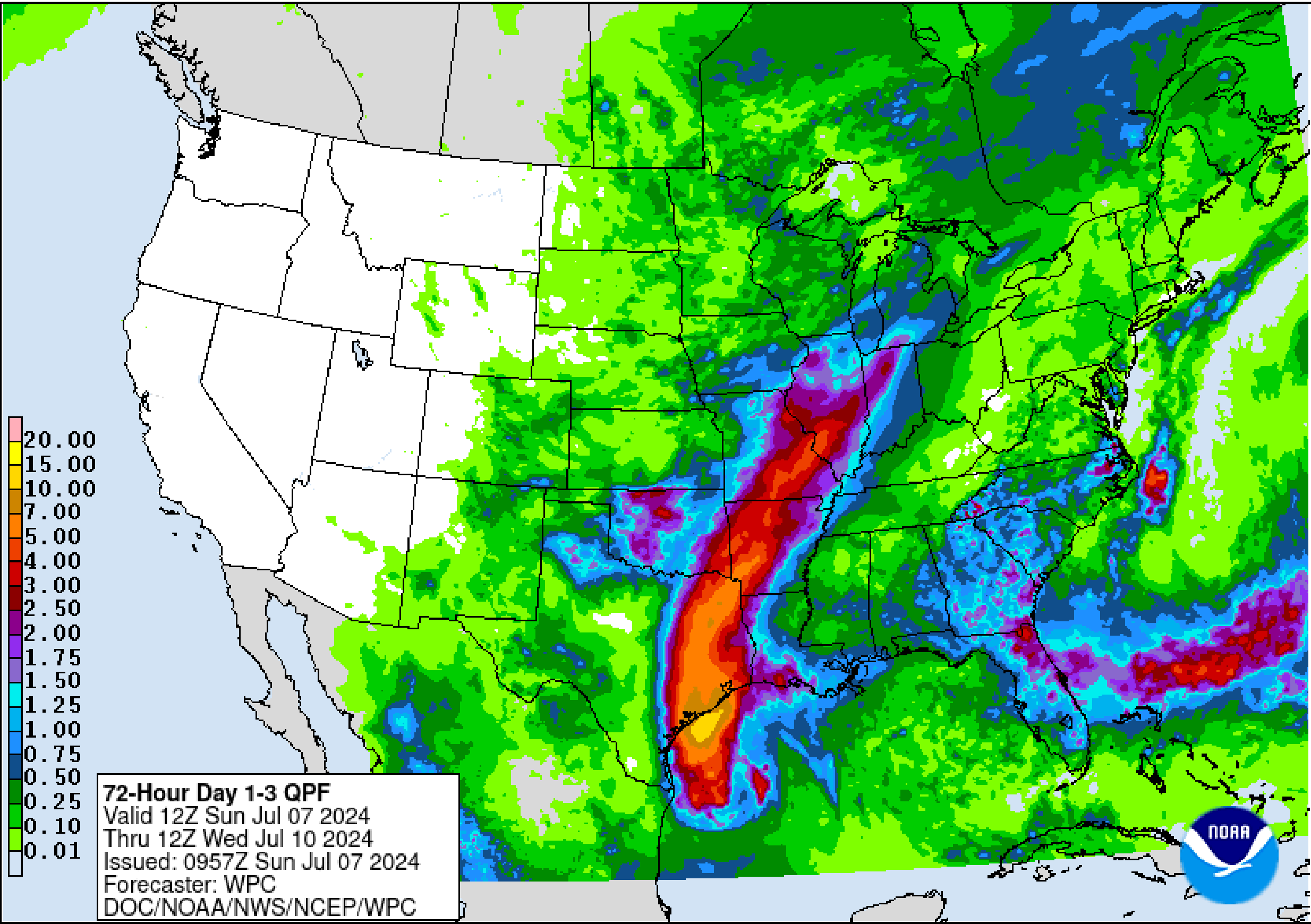
Expected Storm Total Rainfall and Chance of Rainfall Flooding

Tropical Storm Beryl

Images from NWS Weather Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Refer to map legend for Valid Time

Key Messages

Tropical Storm Beryl



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Storm Beryl

Advisory 35: 4:00 AM CDT Sun Jul 07, 2024



1. There is a danger of life-threatening storm surge inundation late tonight and Monday along the coast of Texas from the north entrance to the Padre Island National Seashore to High Island, including Corpus Christi Bay, Matagorda Bay, and Galveston Bay. Residents in those areas should follow any advice given by local officials and follow evacuation orders.

2. Beryl is forecast to bring damaging hurricane-force winds to portions of the Texas coast late tonight and Monday. A Hurricane Warning is now in effect from Baffin Bay to San Luis Pass. Preparations should be rushed to completion before tropical storm conditions begin late today.

3. Flash and urban flooding, some of which may be locally considerable, is expected across portions of the middle and upper Texas Gulf Coast and eastern Texas today through Monday night. River flooding is also expected.

4. Rip currents will cause life-threatening beach conditions through Monday across much of the Gulf Coast. 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 – **High**

Storm Surge – **Moderate**

Rainfall/Flash Flooding – **High**

Tornadoes – **Moderate**

Waves - **High**

Marine Key Messages:

- If Beryl intensifies as expected, seas will build



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



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www.nhc.noaa.gov