



# Tropical Storm Beryl Briefing

11:00 AM

Saturday, July 6th, 2024

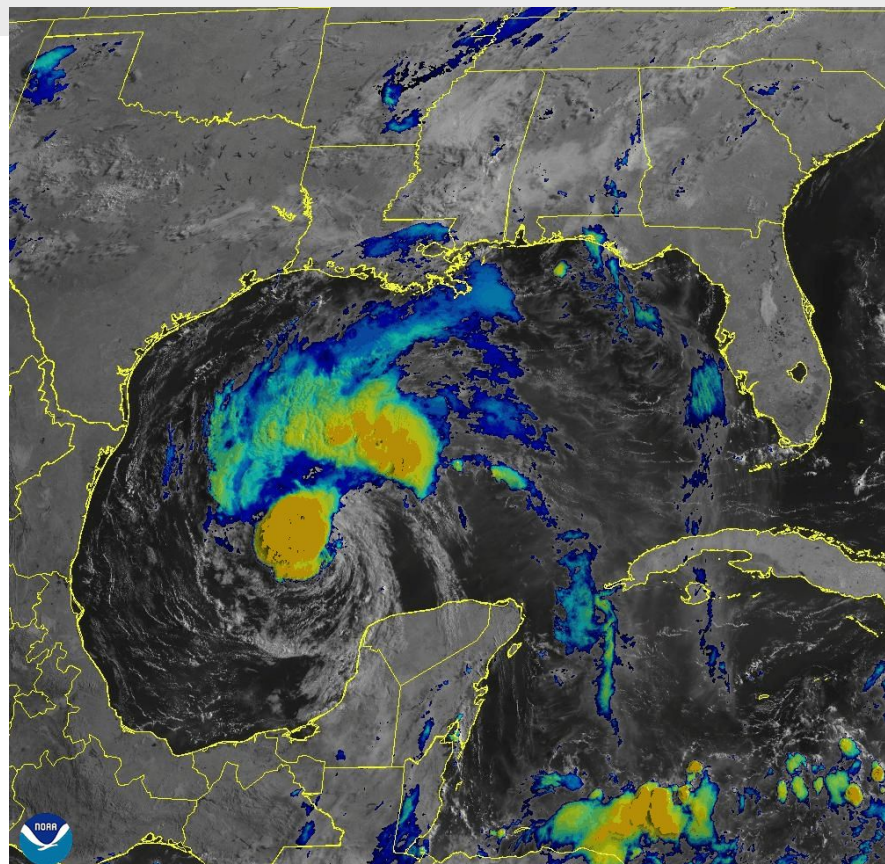
Dan Reilly, NWS Houston/Galveston



# Situation Overview

## Hurricane Beryl

- Tropical Storm Beryl has been disorganized overnight but likely seeing signs of strengthening as thunderstorms develop around the center. Forecast to become a hurricane again prior to making landfall.
- Hurricane Watch along the Texas coast up to San Luis Pass. Storm Surge Watch in effect for all coastal waters.
- Watches will be upgraded to warnings for *portions* of the watch areas this afternoon.
- Rainfall amounts of 5 to 10 inches are expected with local amounts up to 15 inches where the heaviest rainfall occurs (mainly our western counties).
- Rip currents, elevated tides and seas are likely across all coastal areas even outside watch areas.

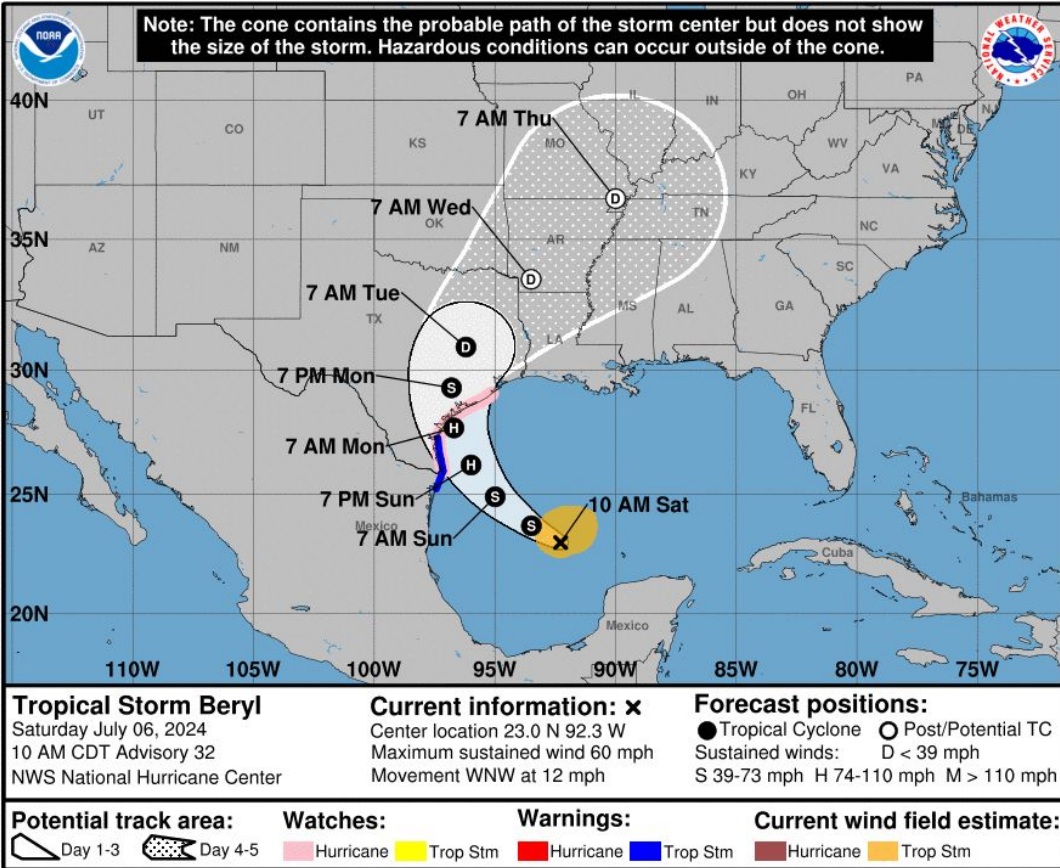


06 Jul 2024 13:21Z - NOAA/NESDIS/STAR - GOES-East - Sandwich Composite - GM



# Tropical Storm Beryl

## Hurricane Beryl



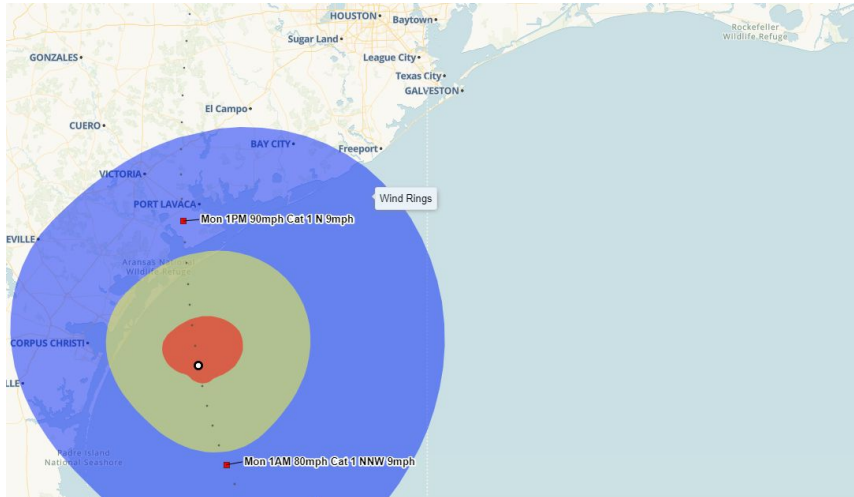
- NHC forecast brings center of Beryl into Texas coast, mostly likely near or S of Matagorda Bay, with center line near Port O Connor. Forecast to be a category one at landfall.
- After landfall, Beryl takes a more northerly track.
- Forecast track has been fairly consistent past 18 hours, confidence increasing but some shifts could still occur.
- Hurricane Watch area shown.
- Stay tuned for updates as warnings likely to be introduced for portions of the area with 4 pm advisory.



# Forecast Wind Field - Hurrevac

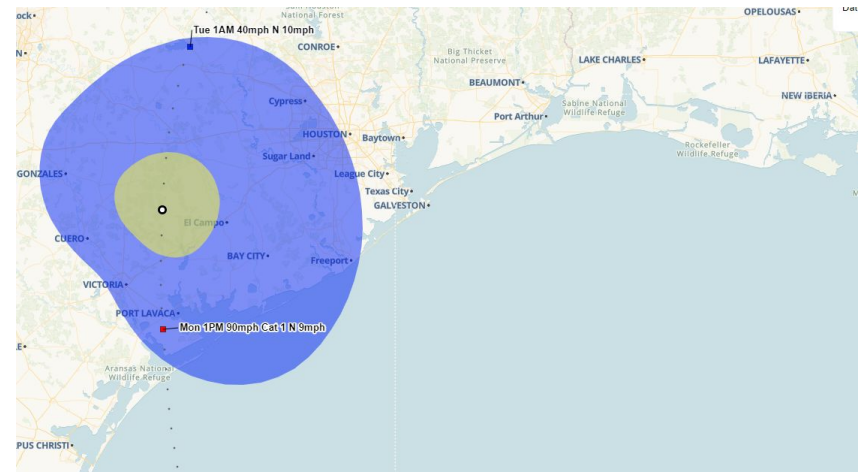
## Tropical Storm Beryl

### 6 AM Monday



**TROPICAL STORM BERYL - Monday, July 8, 2024 6AM CDT (Fcst Hr 60) Advisory #31**  
 Center Location: 27.6 N 96.6 W Maximum Sustained Winds: 85 mph (Cat 1) Movement: 9 mph N  
 Wind Field: @ at current location  
 Sustained Wind Speed: ■ tropical storm  $\geq$  34kt/39mph ■ strong tropical storm  $\geq$  50kt/58mph ■ hurricane  $\geq$  64kt/74mph  
**Tropical Weather Outlook for Saturday, July 06, 2024 12:38AM CDT**  
 Current Disturbances and 7-Day Cyclone Formation Chance: ⊘ <40% ⊘ 40-60% ⊘ >60%  
 Tropical or Sub-Tropical Cyclones: ○ depression ○ storm ○ hurricane ○ post-tropical or remnants

### 6 PM Monday



**TROPICAL STORM BERYL - Monday, July 8, 2024 6PM CDT (Fcst Hr 62) Advisory #31**  
 Center Location: 29.3 N 96.7 W Maximum Sustained Winds: 70 mph Movement: 9 mph N  
 Wind Field: @ at current location  
 Sustained Wind Speed: ■ tropical storm  $\geq$  34kt/39mph ■ strong tropical storm  $\geq$  50kt/58mph ■ hurricane  $\geq$  64kt/74mph  
**Tropical Weather Outlook for Saturday, July 06, 2024 12:38AM CDT**  
 Current Disturbances and 7-Day Cyclone Formation Chance: ⊘ <40% ⊘ 40-60% ⊘ >60%  
 Tropical or Sub-Tropical Cyclones: ○ depression ○ storm ○ hurricane ○ post-tropical or remnants

- Current forecast (if perfect) wind field close to arrival of TS winds (Sunday aft/night) and landfall on Monday.

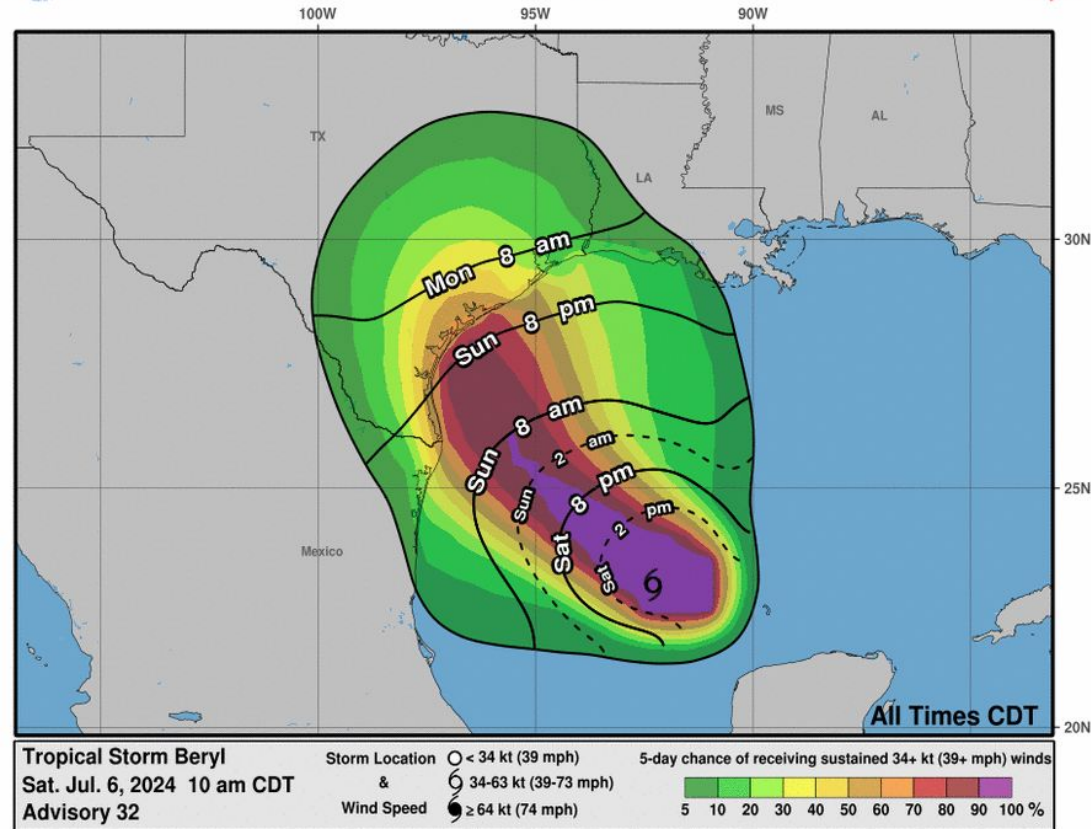


# Most Likely Time of Arrival

## Hurricane Beryl



### Most Likely Arrival Time of Tropical-Storm-Force Winds



- The most likely time of arrival of Tropical Storm Force Winds Sunday night.
- Note the higher point probabilities near and around our SW Counties, lesser probabilities Galveston Bay.

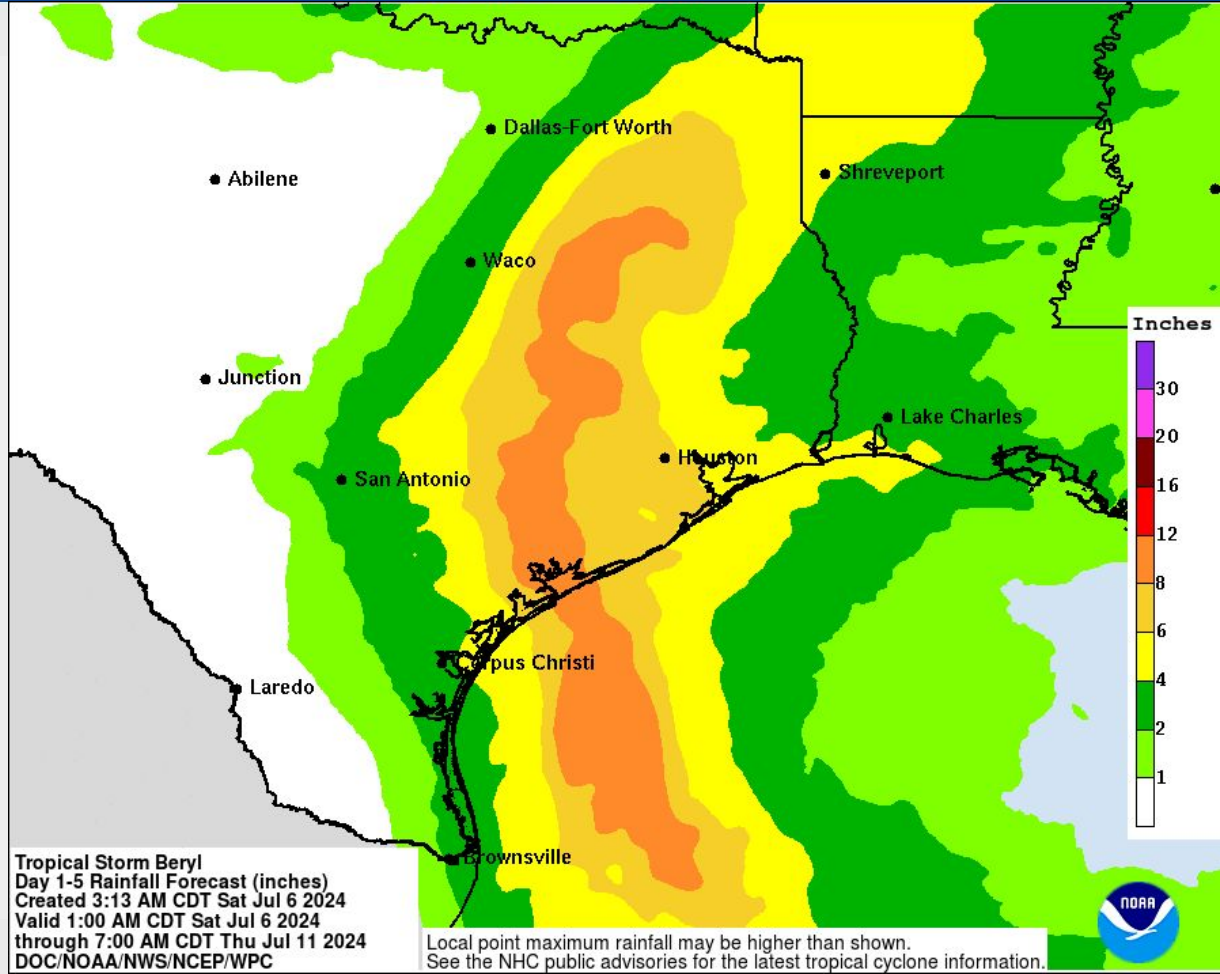


# Rainfall Forecast

Storm total rainfall amounts of 5 to 10 inches with localized amounts of 15 inches are expected. Beginning late Sunday.

Period of heaviest rain Sunday Night into Tuesday.

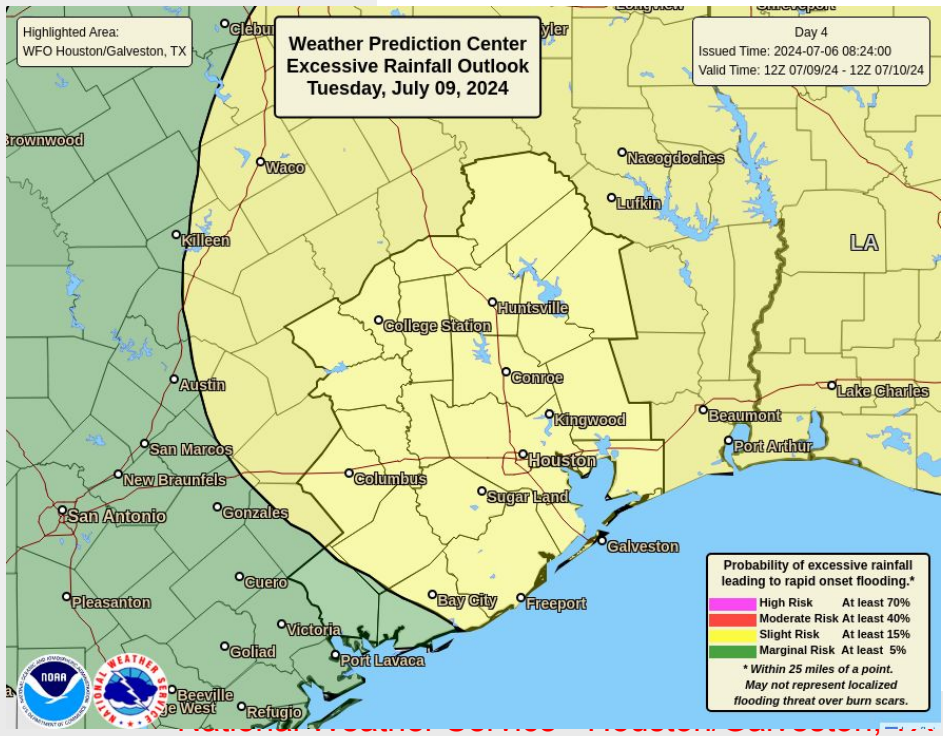
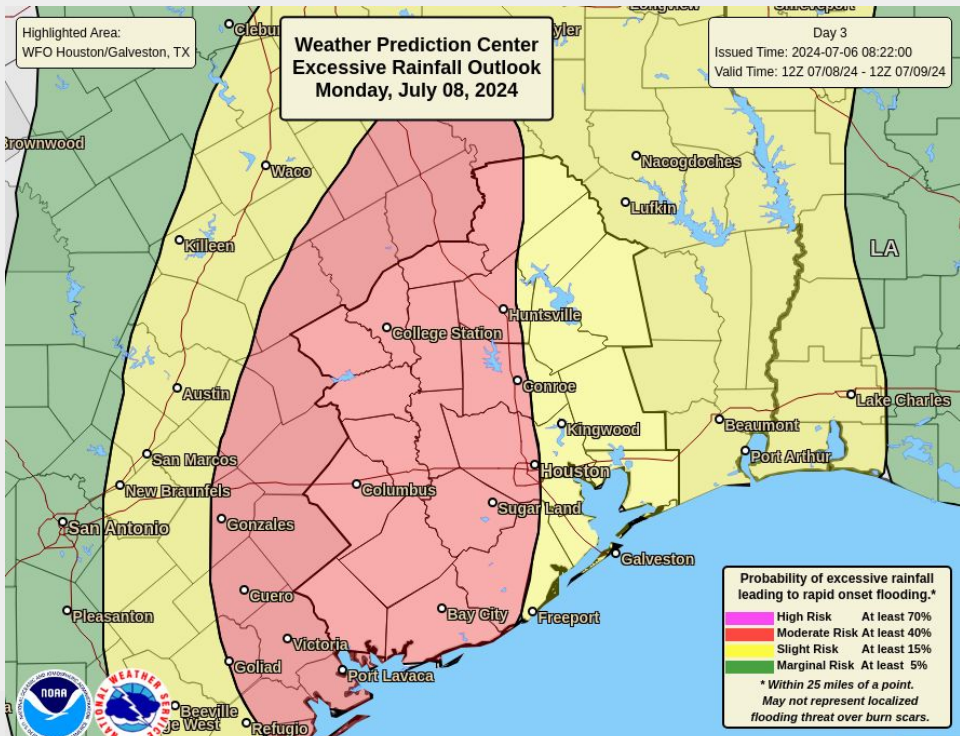
The heavier band will be generally near or right of the center track.





# Excessive Rainfall Outlook

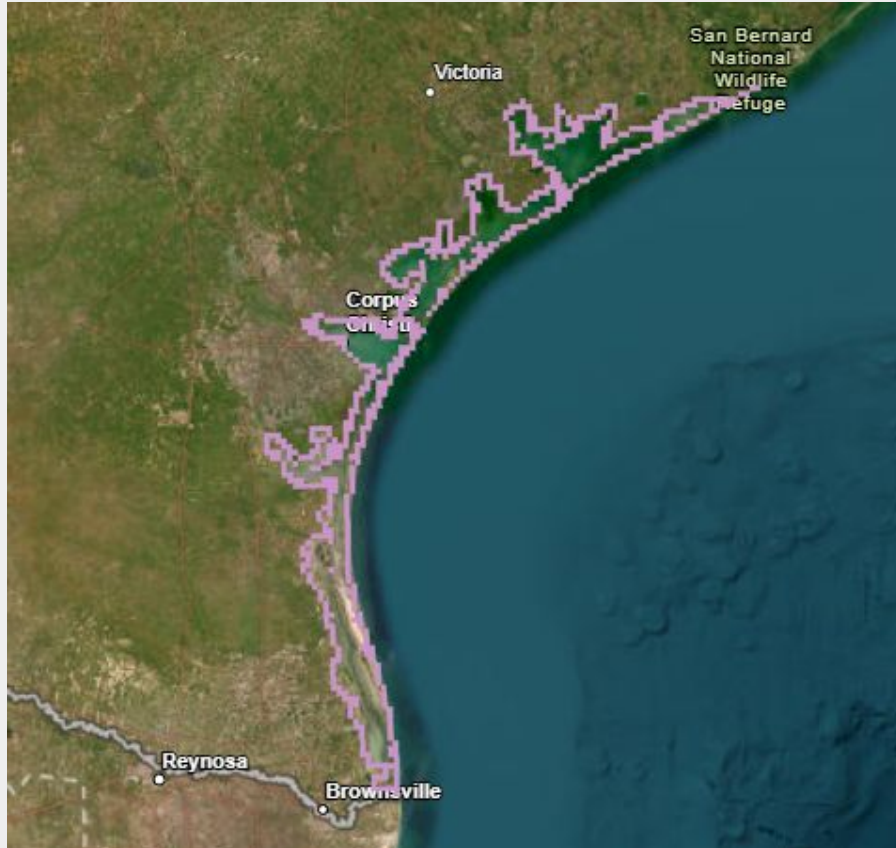
Main heavy rain/flash flood threat will be Sunday Night into Tuesday for the local area. Risk rated as Moderate for western counties which will be closer to the track, highest rainfall.





# Storm Surge Watch / Warning

Beryl



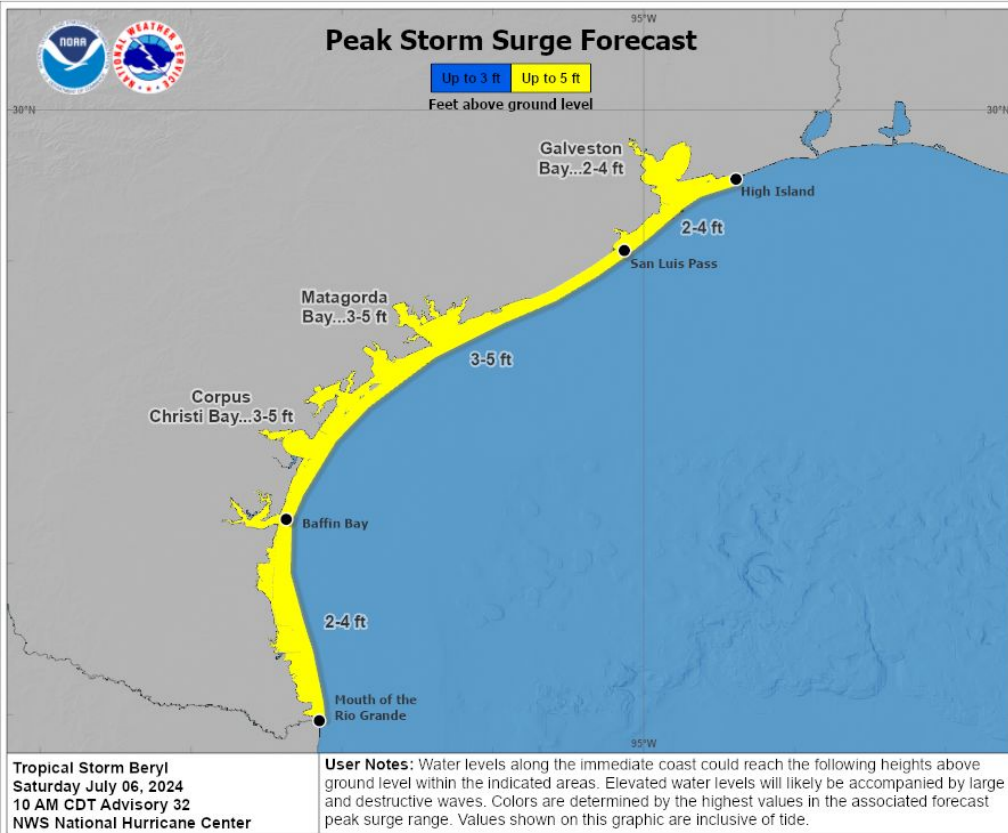
- Storm Surge Watch along Texas Coast up to Sargent, TX
- Three to five feet of water above normally dry ground is possible in watch area.





# Peak Surge (Height Above Normally Dry Ground)

Beryl



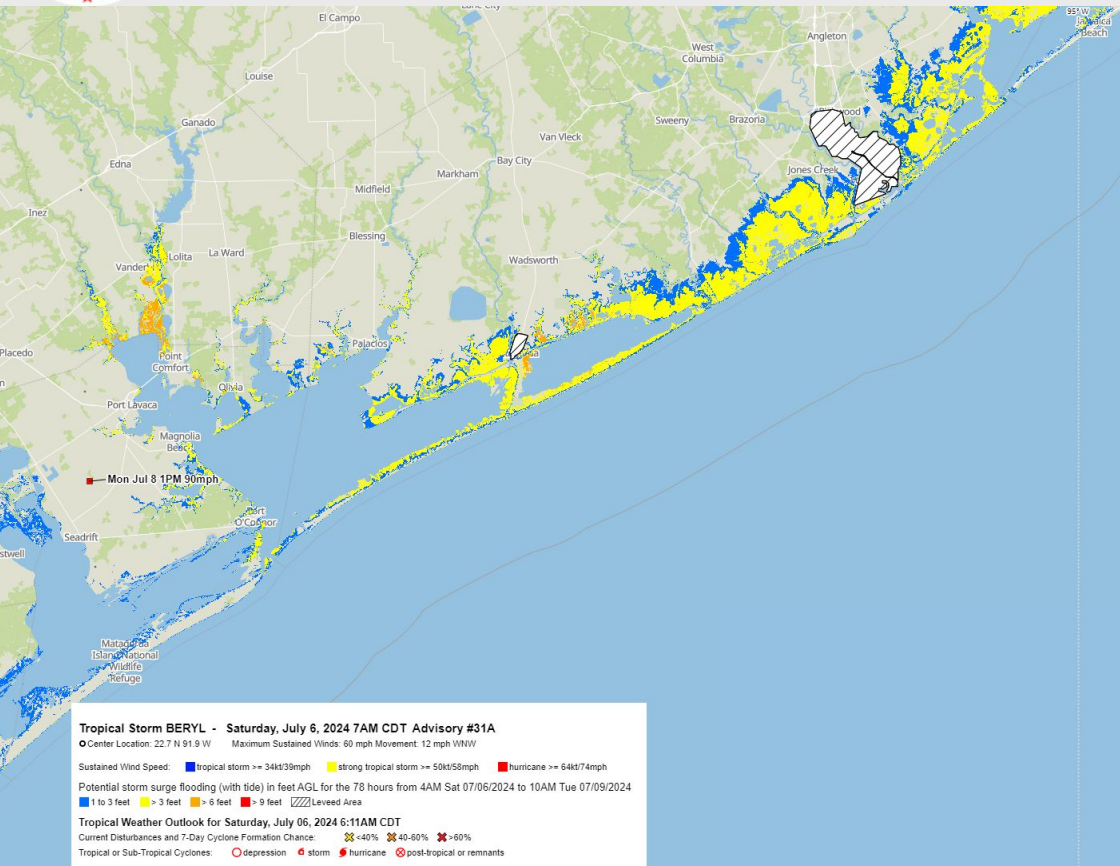
Peak surge 3 to 5 feet above ground level up to San Luis Pass, 2 to 4 feet N of San Luis Pass including Galveston Bay.

A Storm Surge Watch is in effect for these areas. Portions of the watch area will be upgraded to a warning this afternoon.



# Potential Storm Surge Flooding

Beryl

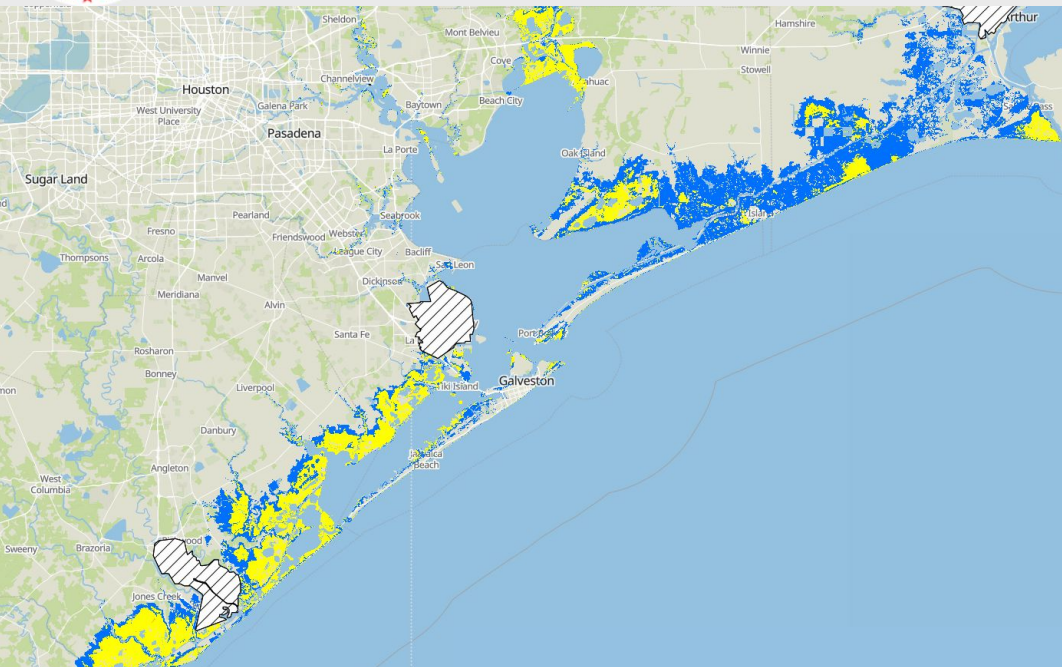


- Map shows areas, depth of water that may occur (surge potential, reasonable worst case).
- Can be viewed at [hurricanes.gov](https://hurricanes.gov) and, for EMCs, using Hurrevac.
- Blue shaded 1 to 3 feet above ground level, yellow >3 feet above ground level



# Potential Storm Surge Flooding

Beryl



## Tropical Storm BERYL - Saturday, July 6, 2024 7AM CDT Advisory #31A

Center Location: 22.7 N 91.9 W Maximum Sustained Winds: 60 mph Movement: 12 mph WNW

Sustained Wind Speed: ■ tropical storm  $\geq$  34kt/39mph ■ strong tropical storm  $\geq$  50kt/58mph ■ hurricane  $\geq$  64kt/74mph

Potential storm surge flooding (with tide) in feet AGL for the 78 hours from 4AM Sat 07/06/2024 to 10AM Tue 07/09/2024

■ 1 to 3 feet ■ > 3 feet ■ > 6 feet ■ > 9 feet Leveed Area

## Tropical Weather Outlook for Saturday, July 06, 2024 6:11AM CDT

Current Disturbances and 7-Day Cyclone Formation Chance: <40% 40-60% >60%

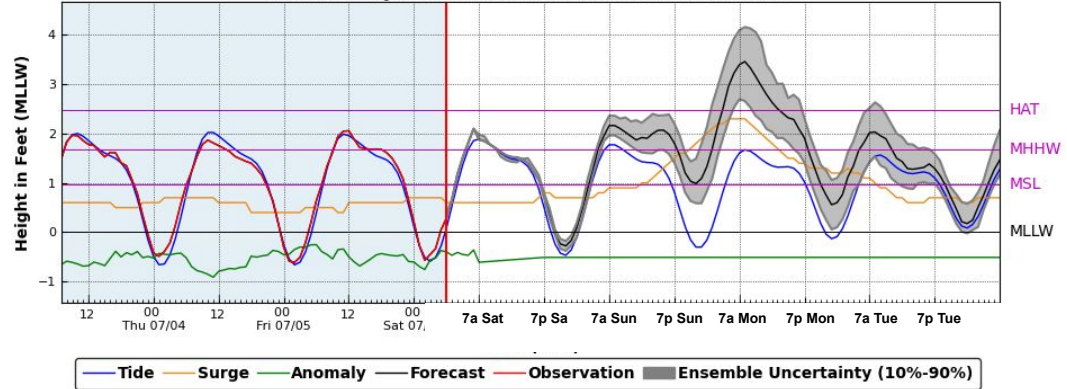
Tropical or Sub-Tropical Cyclones: depression storm hurricane post-tropical or remnants

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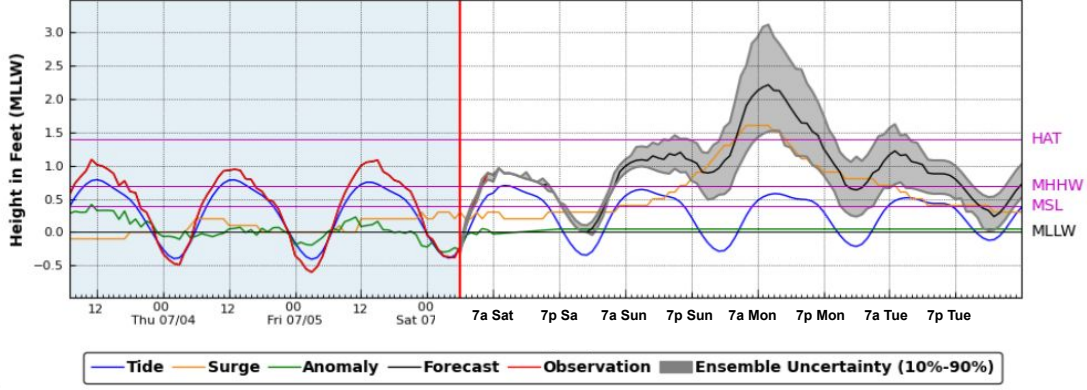


# Tide Forecast – Probabilistic Model (PETSS)

Galveston Bay Entrance TX 8771341, 07/06/2024 12:02 UTC



Sargent TX 8772985, 07/06/2024 12:02 UTC



- Water levels shown are relative to MLLW
- Highest water levels Sunday night, **Monday** and Monday night.
- Values may be a bit low, especially closer to center track down near Matagorda Bay.
- Refer to NHC modelling for more realistic values for those areas (esp around Matagorda Bay).
- Still some uncertainty as is dependent on wind field size and the exact track.
- For Galveston Bay these values near or a little below levels seen in Alberto. Would be higher with a track shift.

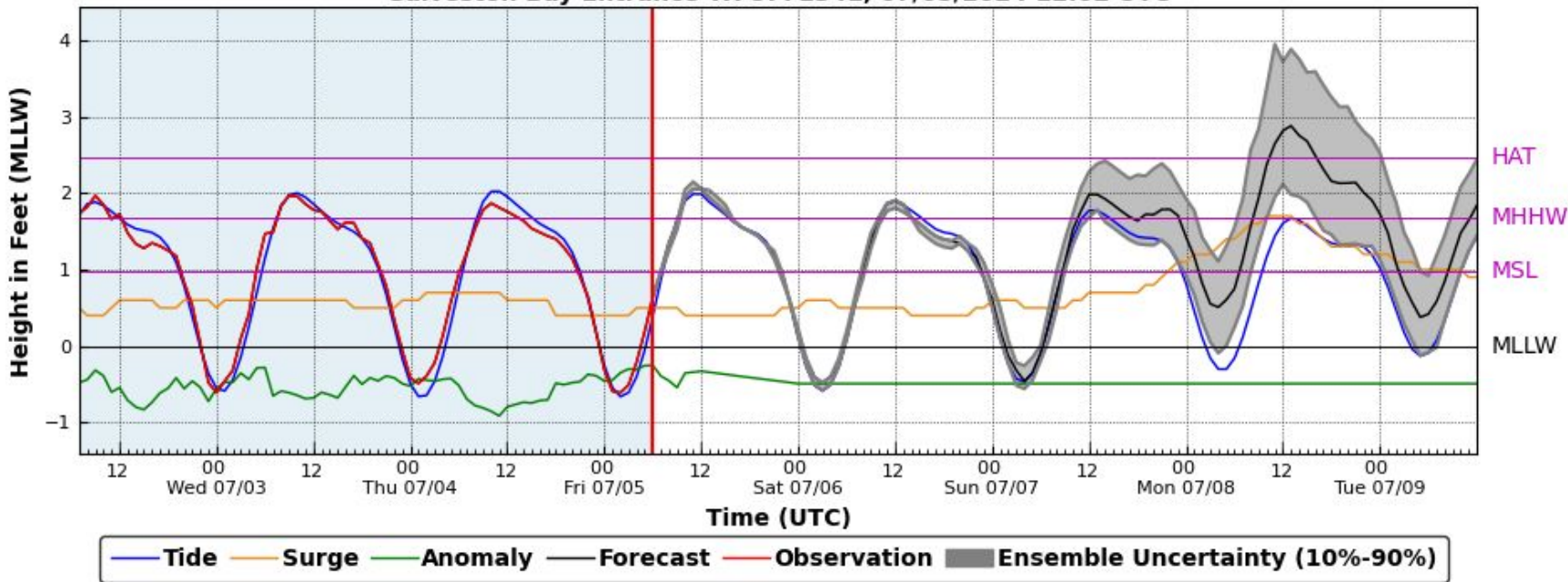


# High Tides, Water Levels, Starting Late Sunday, Monday

Hurricane Beryl

Will see some higher water levels Sunday and especially Monday and Tuesday. How high will be highly dependent on track, intensity, highly uncertain. This mornings surge modelling show tide levels potentially up to 4 feet above MLLW (3 feet above MHHW) but big spread. Will likely have more information on this with future briefings. (On this map subtract 5 hours to convert UTC to CDT)

Galveston Bay Entrance TX 8771341, 07/05/2024 12:02 UTC

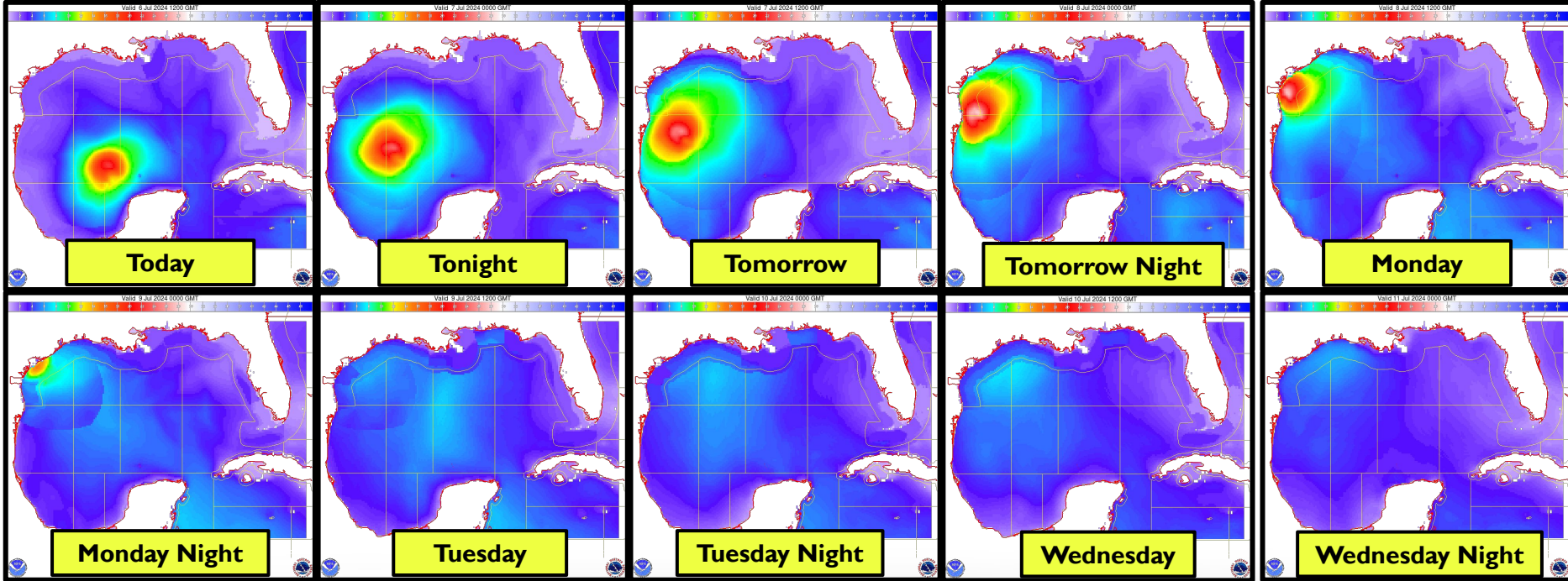




# Forecast Wave Heights: Gulf of Mexico

See <http://www.hurricanes.gov> for the latest on the tropics or any active storms

Offshore wave heights of up to 30 ft possible as Beryl nears the Texas Coastal Bend and South Texas on Sunday night and Monday.





# For Marine Planning Purposes...

Tropical Storm Beryl

## Seas:

- Arrival of 6+ foot seas: **Saturday Night >20 nm offshore, within 20 nm Sunday morning**
- Peak seas: 20-30 feet near mid-Texas coast. Potential improvement (seas < 6 feet nearshore): **late Monday**

## Winds:

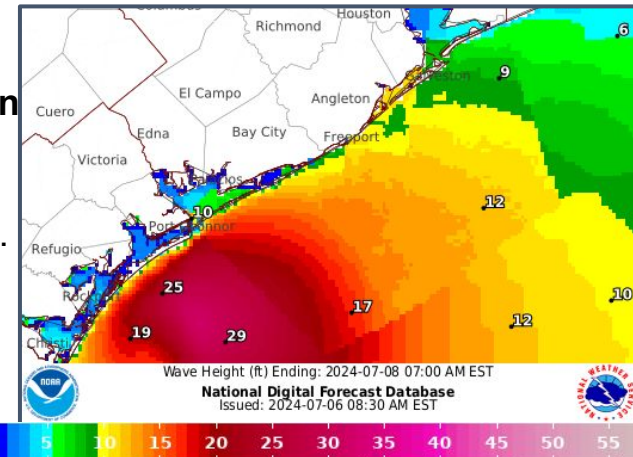
- Onset of sustained TS winds: **Sunday afternoon lower coast/Sunday night upper coast.**
- Onset of hurricane force winds: **Monday morning or mid-day - mid coast.**
- Potential improvement (winds <30 knots): Speeds decreasing **late afternoon/eve Monday for coast.**

## Coastal flooding / surge:

- Water levels will likely begin to **rise on Sunday, peaking Monday morning**

## Beach:

- Increasing surf and threat for dangerous rip currents: **beginning Sunday.**



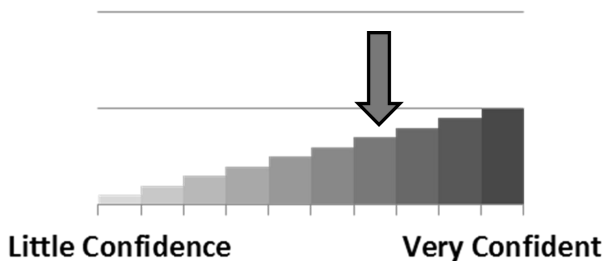


# Key Take-Aways

## Hurricane Beryl

- Track forecast for Beryl has been more consistent the past 18 hours, focusing on a landfall near or south of Matagorda Bay. Confidence in track increasing.
- Beryl is a tropical storm now, but forecast to strengthen to a category one hurricane before landfall. Best practice is to plan for one category higher (cat 2)
- A Hurricane Watch is in effect along Texas Coast up to San Luis Pass. A Storm Surge Watch in affect for all coastal areas. Portions of the watch area likely to be upgraded to warnings this afternoon (especially those closest to track)
- Rainfall amounts of 5 to 10 inches are expected with local amounts up to 15 inches where the heaviest rain falls...leading to a flood threat (flash and river).
- Rip currents, elevated tides and seas are likely across all coastal areas even outside watch areas.

### Forecast Confidence



**Confidence increasing in track and intensity forecast but changes may still occur. Stay tuned for updates!**





# Local Resources

## Hurricane Beryl

Next Briefing:  
July 6th, 5:00 PM CDT  
Method: Webinar



**Web:** [weather.gov/houston](http://weather.gov/houston)



**Phone:** 281-337-5074



**E-mail:** [sr-hgx.nws@noaa.gov](mailto:sr-hgx.nws@noaa.gov)



**Facebook:** [facebook.com/NWSHouston/](https://facebook.com/NWSHouston/)



**Twitter:** [twitter.com/NWSHouston](https://twitter.com/NWSHouston)



**YouTube:** [youtube.com/nwshouston](https://youtube.com/nwshouston)



# Hurricane Beryl

Latest updates from the  
National Hurricane Center: [Hurricanes.gov](https://www.hurricanes.gov)



## What We Know



## What we DON'T Know

### Track

- Hurricane Beryl will cross the Yucan and reemerge out over the Gulf later today.
- The storm will likely reach the South Texas coast early Monday as a hurricane.
- Move into the Bay of Campeche/Southwest Gulf this weekend

### Strength

- Currently a Major Hurricane
- Will be moving into a more hostile environment over the next few days leading to gradual weakening
- Land interaction with the Yucatan Peninsula will likely further weaken Beryl into a Tropical Storm as it moves into the SW Gulf

### Track

- Where Beryl goes after moving into the SW Gulf  
→ the current most likely spot will be making landfall somewhere in Northeastern Mexico or Southern Texas

### Strength

- If Beryl will restrengthen after moving into the SW Gulf  
→ the current most likely scenario is it remains a Tropical Storm before landfall

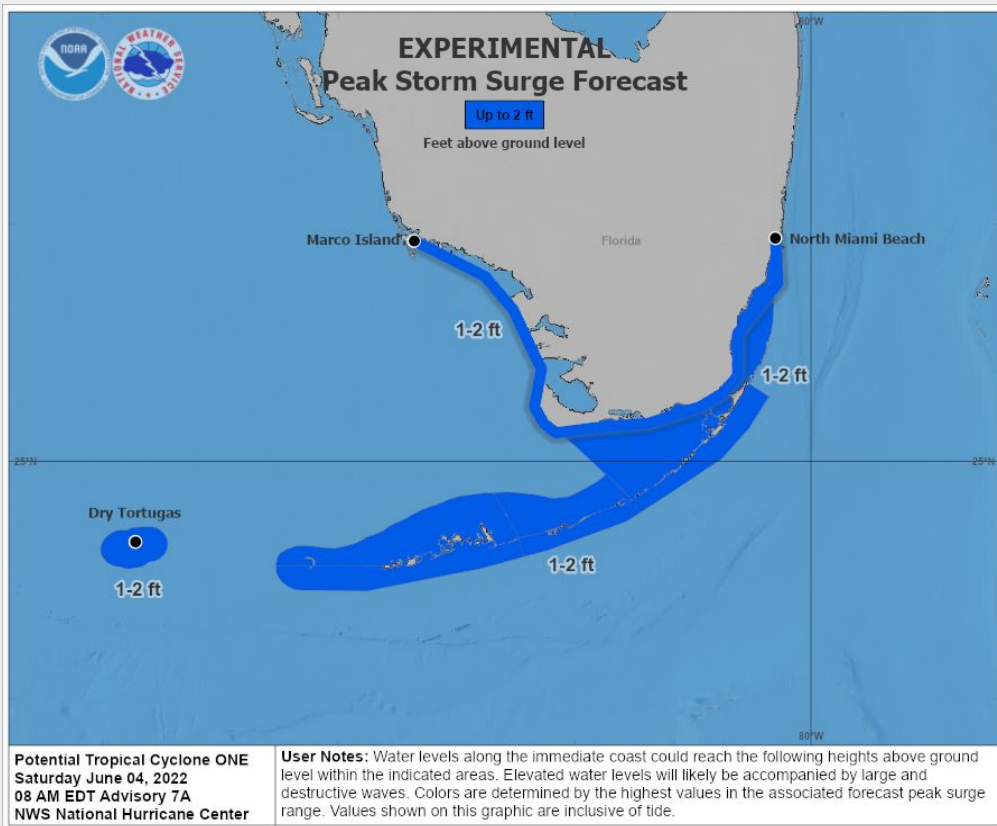
## Most Likely Impacts for SE Texas

Increased risk for strong rip currents beginning this weekend  
Long period swells in the waters and elevated tides



# Peak Storm Surge

## Hurricane Kay



Last updated: 9/8/2022 11:10:07 AM

National Weather Service - Houston/Galveston, TX



# Situation Overview

Hurricane Beryl

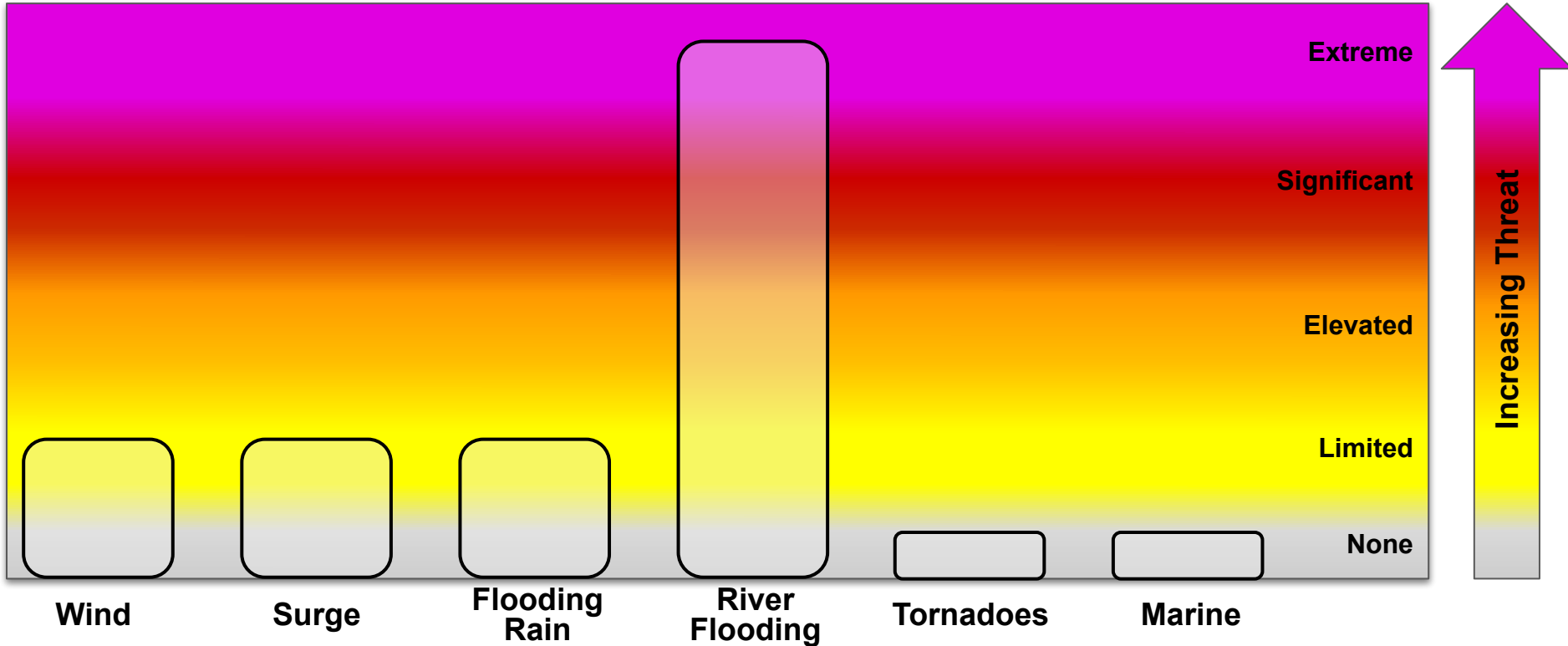
Hazard	Impacts	Location	Timing
 Wind			
 Storm Surge & Inundation			
 Flooding Rain			
 Tornado			
 Marine			



# Threat Levels

None

For information on specific hazards in this area, please go to: <https://www.weather.gov/srh/tropical?office=bro>

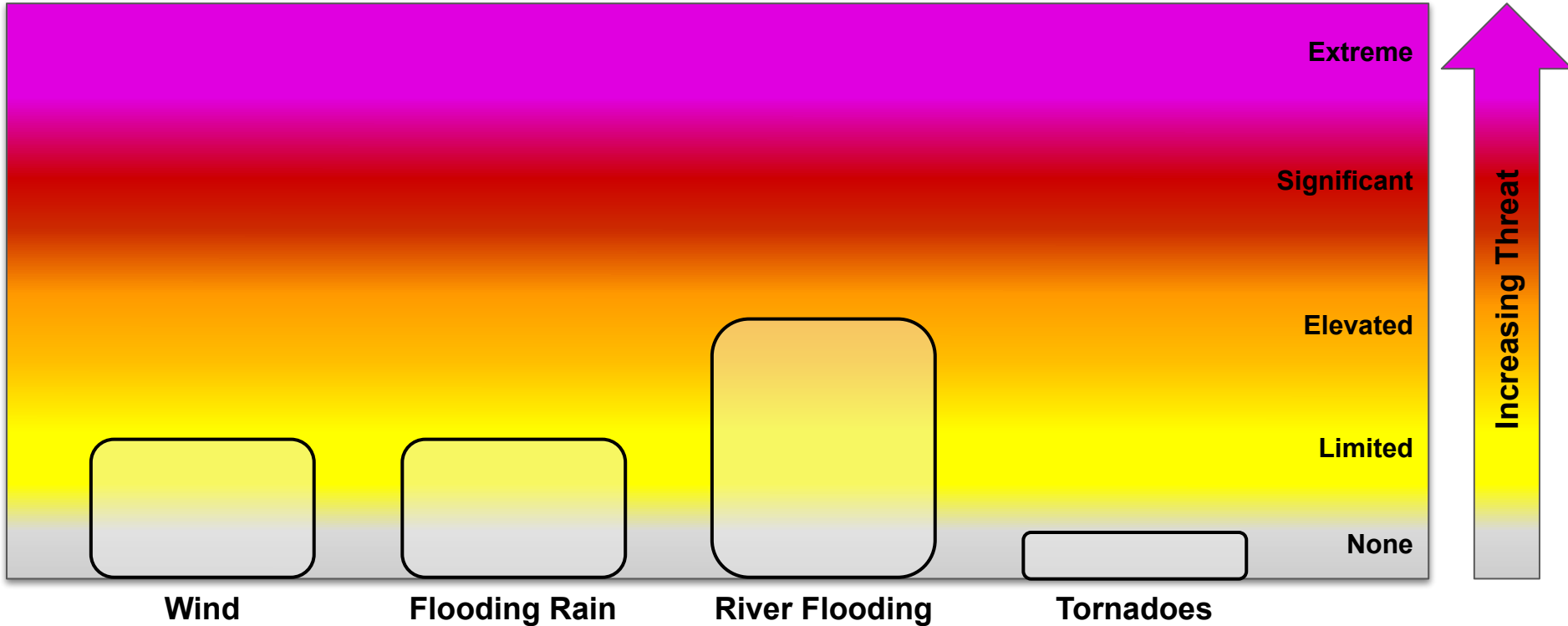




# Threat Levels

None

For information on specific hazards in this area, please go to: <https://www.weather.gov/srh/tropical?office=mfl>





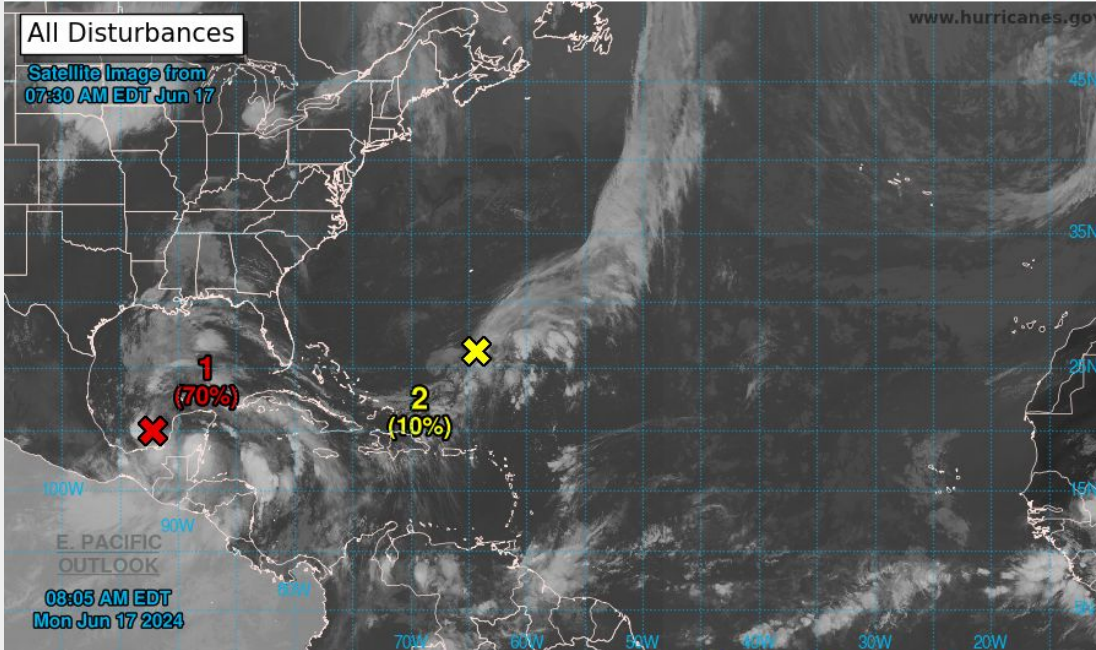
# Tropical Weather Outlook

None



## Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Two-Day Cyclone Formation Chance: X < 40% X 40-60% X > 60%

Tropical or Sub-Tropical Cyclone: ○ Depression ◐ Storm ◑ Hurricane

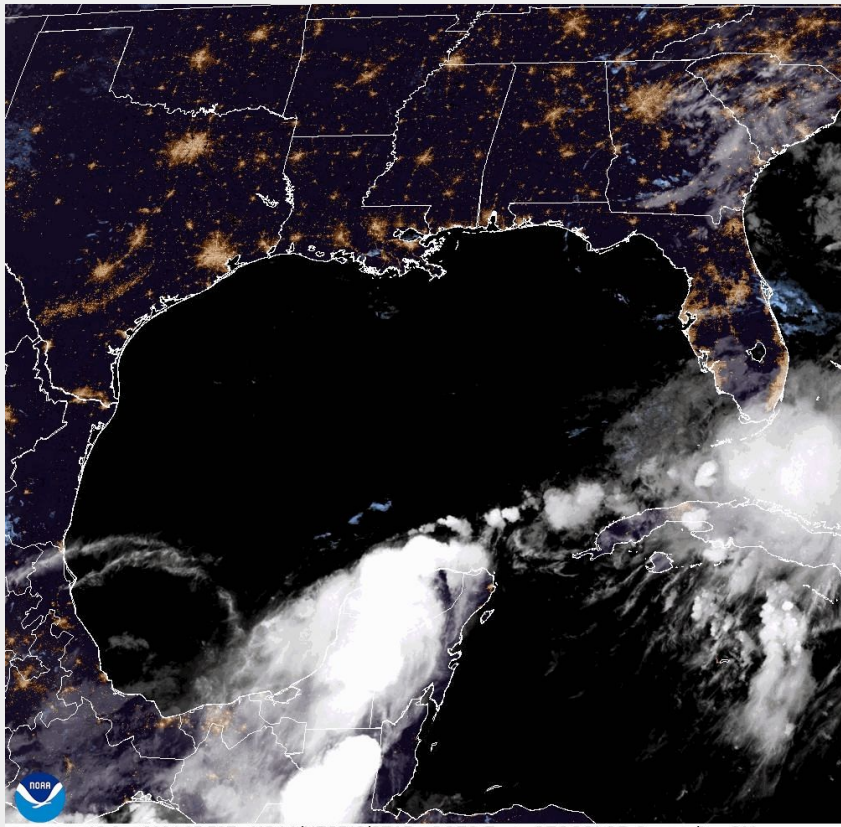
⊗ Post-Tropical Cyclone or Remnants

- Area of interest in the southwest Gulf of Mexico now has a 40% probability of development into a tropical cyclone over the next 7 days.
- Anticipated impacts to SE Texas at this time are similar whether a tropical cyclone forms or not - gustier winds, higher chances for rain and storms, increased potential for rip currents and high tide levels, and rougher seas.
- Reminder: The hatched area represents a possible development area, not the system's path after development occurs.



# Current Satellite View

None



13 Jun 2024 05:51Z - NOAA/NESDIS/STAR - GOES-East - GEOCOLOR Composite - GM

Last updated: 6/13/2024 5:30 AM CDT

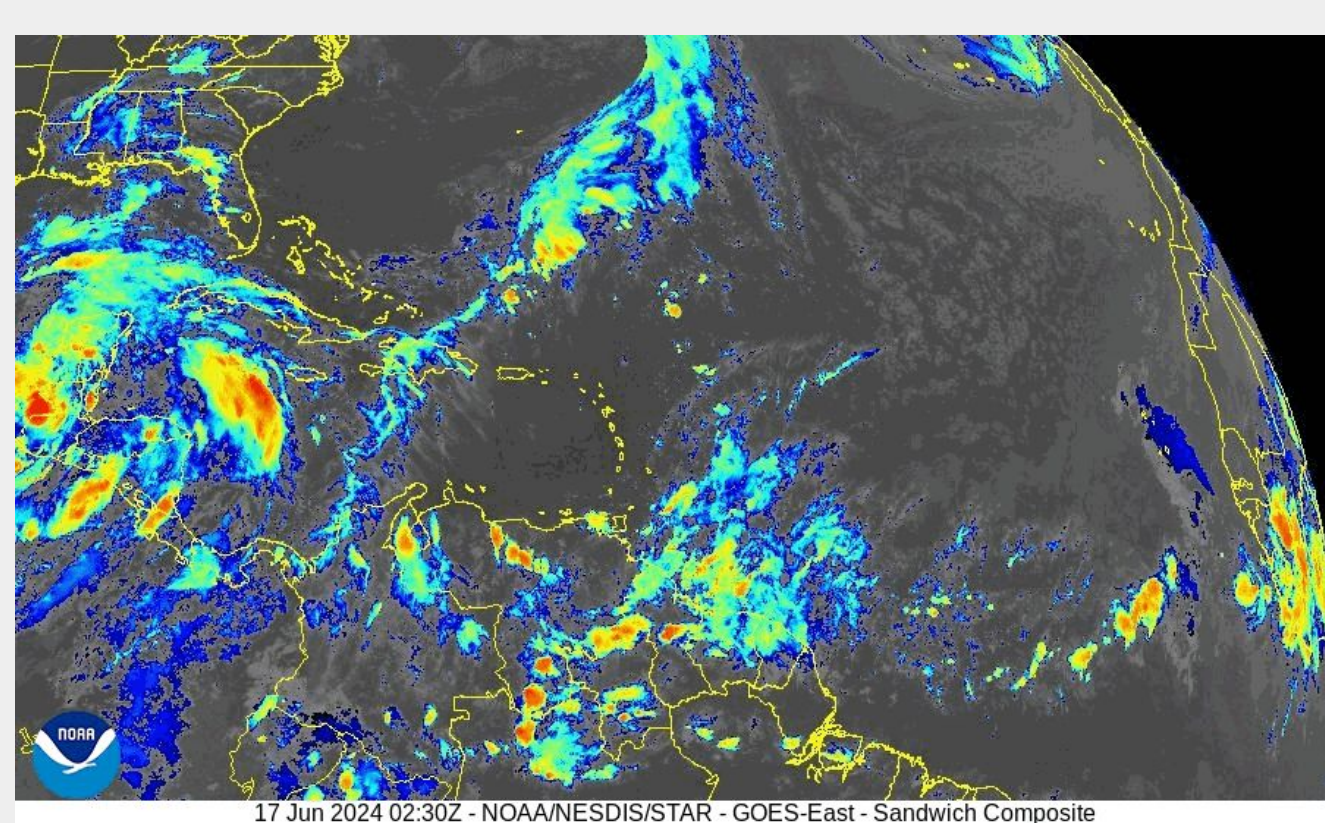
National Weather Service - Houston/Galveston, TX





# Current Satellite View

None

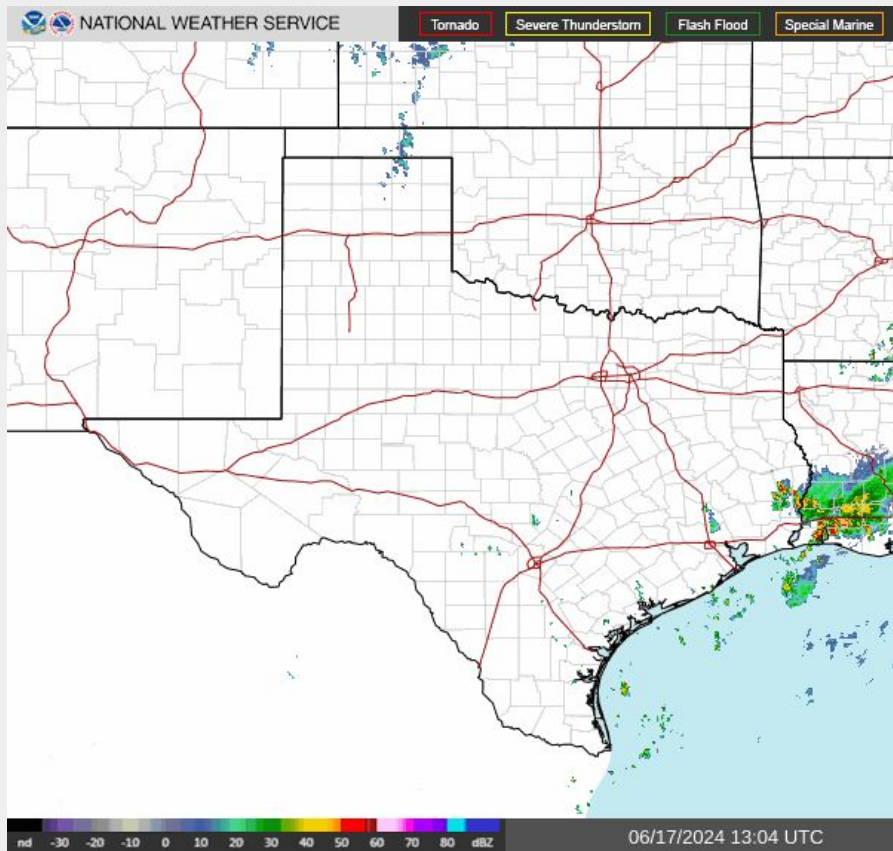


17 Jun 2024 02:30Z - NOAA/NESDIS/STAR - GOES-East - Sandwich Composite



# Current Radar View

None



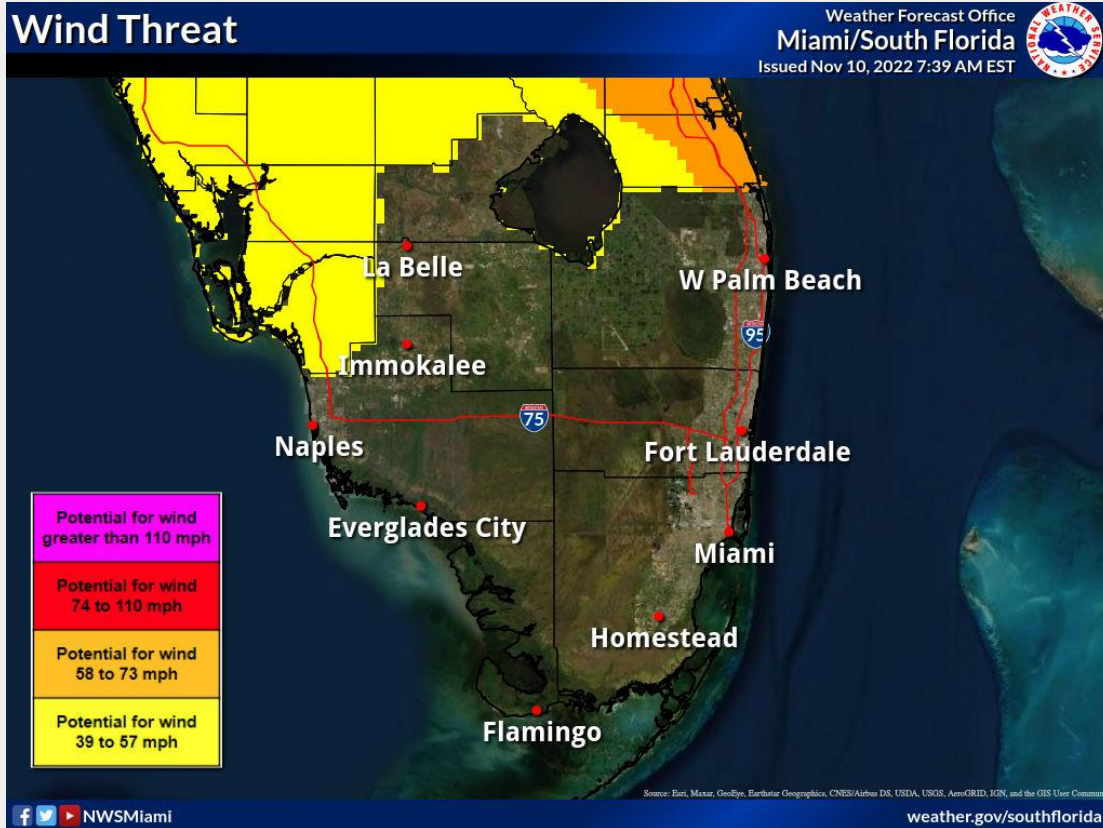
Last updated: 6/17/2024 8:31 AM CDT

National Weather Service - Houston/Galveston, TX



# Wind Threat / Potential Impact

None



There is a potential for:

- Include 2-3 major threat and impact statements here (widespread power outages, etc)
- Recommend using mosaic graphics here (that do not stop at CWA borders)



# Tropical Storm Wind Speed Probabilities

Hurricane Kay



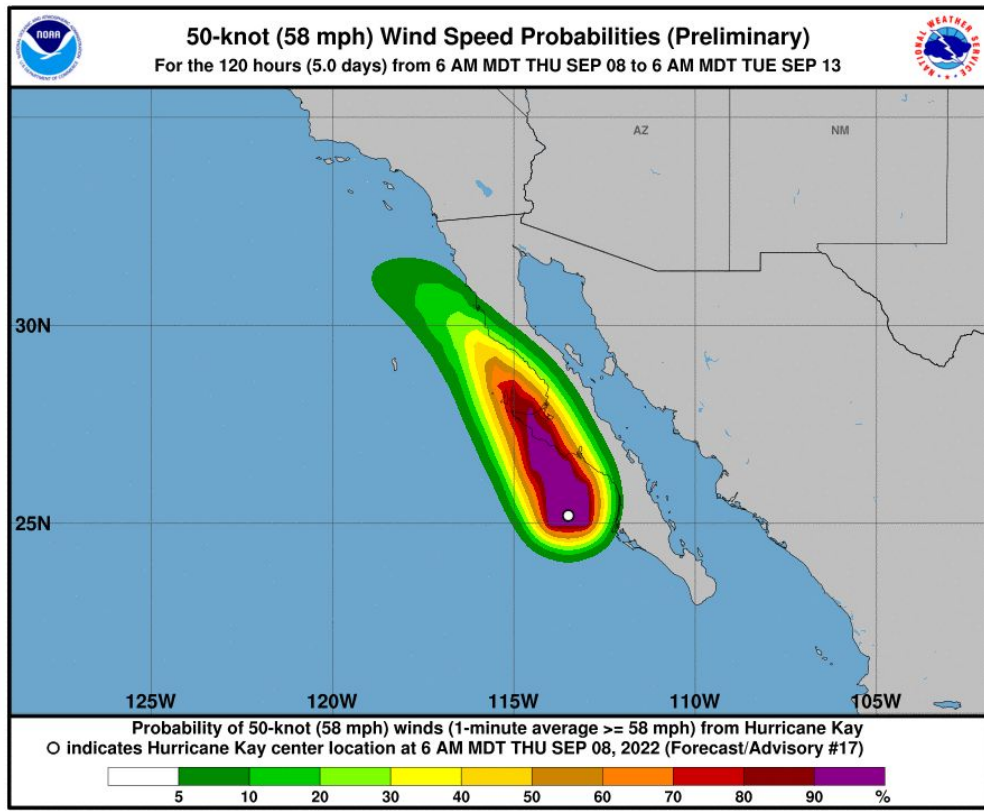
Last updated: 9/8/2022 11:10:07 AM

National Weather Service - Houston/Galveston, TX



# 50 kt (58 mph) Wind Speed Probabilities

Hurricane Kay



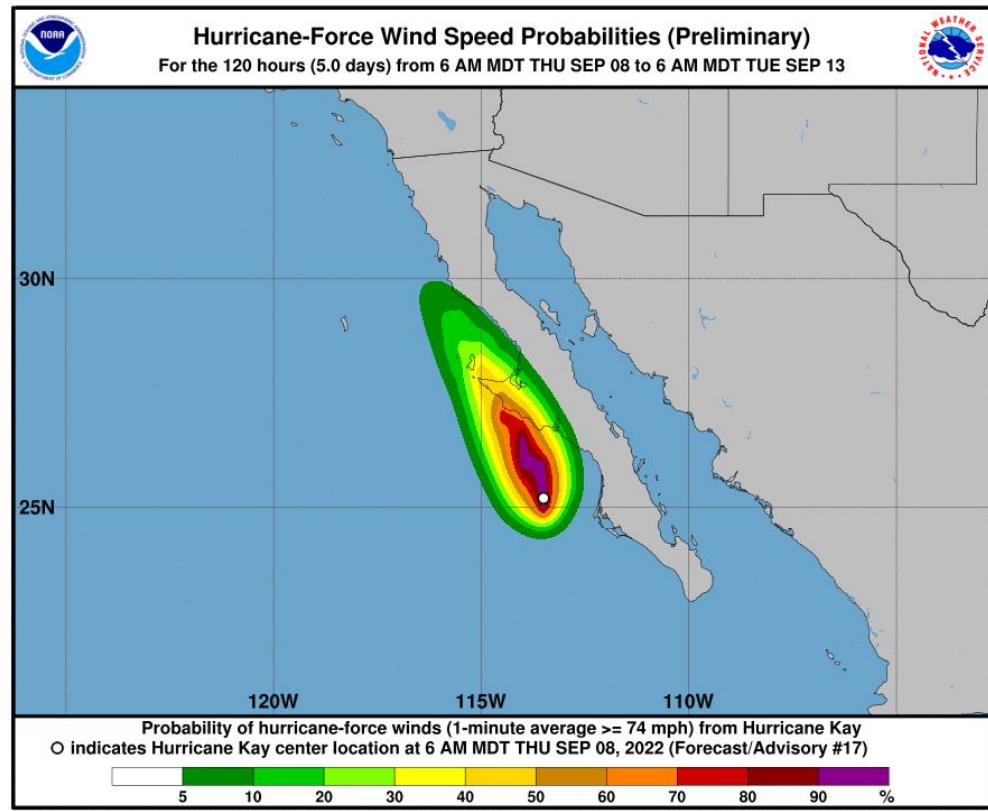
In THREE bullet points or less:

- Use terms such as 9 in 10 chance, “near certainty”, or “still equal chances”
- Add trends in probabilities (steady, increasing, decreasing)
- Describe locations of greatest risk: {Area Description}. However,
- Similar chance of 50kt wind speeds occurring at all locations from (location) to (location)
- 50kt winds could begin as early as Sunday (if applicable).
- *If applicable*: 50kt winds could linger through {General Time Descriptor (24hr time scale)}.



# Hurricane Wind Speed Probabilities

## Hurricane Kay



In THREE bullet points or less:

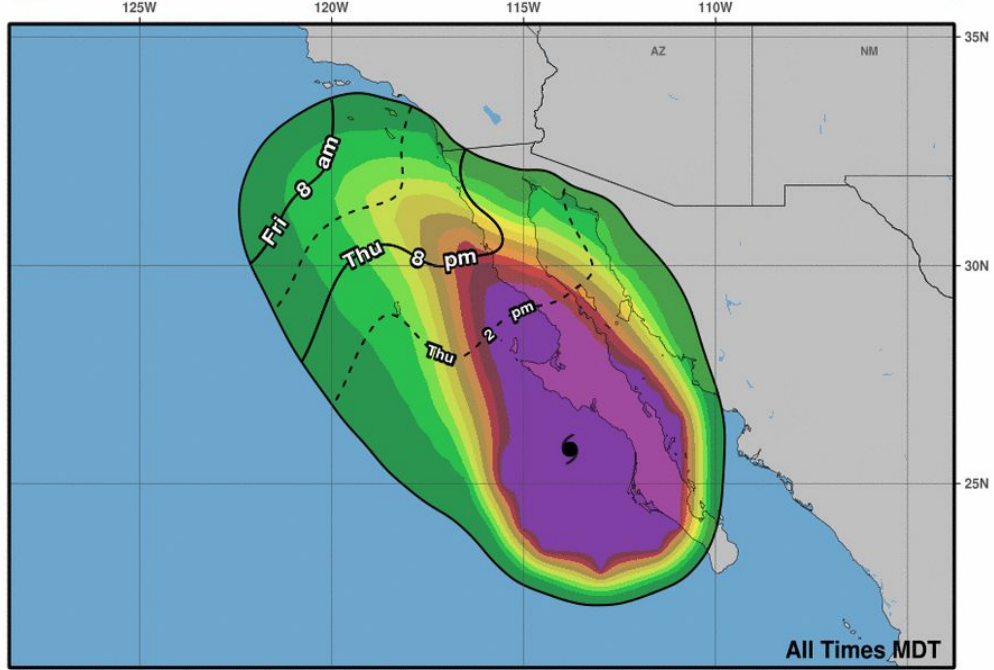
- Use terms such as 9 in 10 chance, “near certainty”, or “still equal chances”
- Add trends in probabilities (steady, increasing, decreasing)
- Describe locations of greatest risk: {Area Description}. However,
- Similar chance of hurricane conditions occurring at all locations from (location) to (location)
- Hurricane conditions could begin as early as Sunday (if applicable).
- ***If applicable:*** Hurricane conditions could linger through {General Time Descriptor (24hr time scale)}.



# Earliest Reasonable Time of Arrival

Hurricane Kay

Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Hurricane Kay  
Thu. Sep. 8, 2022 9 am MDT  
Advisory 17

Storm Location ○ < 34 kt (39 mph)  
& ○ 34-63 kt (39-73 mph)  
Wind Speed ● ≥ 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds  
5 10 20 30 40 50 60 70 80 90 100 %

- The earliest reasonable time of arrival of Tropical Storm Force Winds for the Big Bend of Florida is Thursday morning
- However, the most likely time this area could see Tropical Storm Force Winds will be during the day on Thursday



# Wind Timing

None

## Expected Duration of Wind Speeds

Location	Tropical Storm Force Winds	Hurricane Force Winds
Region 1	Start/end times in an appropriate time frame (6hrs only when close to landfall)	Start/end times in an appropriate time frame (6hrs only when close to landfall)
Region 2	Start/end times in an appropriate time frame (6hrs only when close to landfall)	Start/end times in an appropriate time frame (6hrs only when close to landfall)
Region 3	Start/end times in an appropriate time frame (6hrs only when close to landfall)	Start/end times in an appropriate time frame (6hrs only when close to landfall)
Region 4	Start/end times in an appropriate time frame (6hrs only when close to landfall)	Start/end times in an appropriate time frame (6hrs only when close to landfall)
Region 5	Start/end times in an appropriate time frame (6hrs only when close to landfall)	Start/end times in an appropriate time frame (6hrs only when close to landfall)





# Potential Storm Surge Impacts

None



There is a potential for:

- Include 2-3 major threats and impact statements here (damage to several buildings, moderate damage to marinas, docks, etc)



# Storm Surge - Initial Estimates

None

***Estimated surge values are preliminary numbers only, they have not been verified***

<b>Location</b>	<b>Current Observations or Estimated Surge Level</b>	<b>Timing of when water is expected to recede</b>
Region 1	Make sure you specify datum	Expected end time
Region 2	Make sure you specify datum	Expected end time
Region 3	Make sure you specify datum	Expected end time
Region 4	Make sure you specify datum	Expected end time
Region 5	Make sure you specify datum	Expected end time

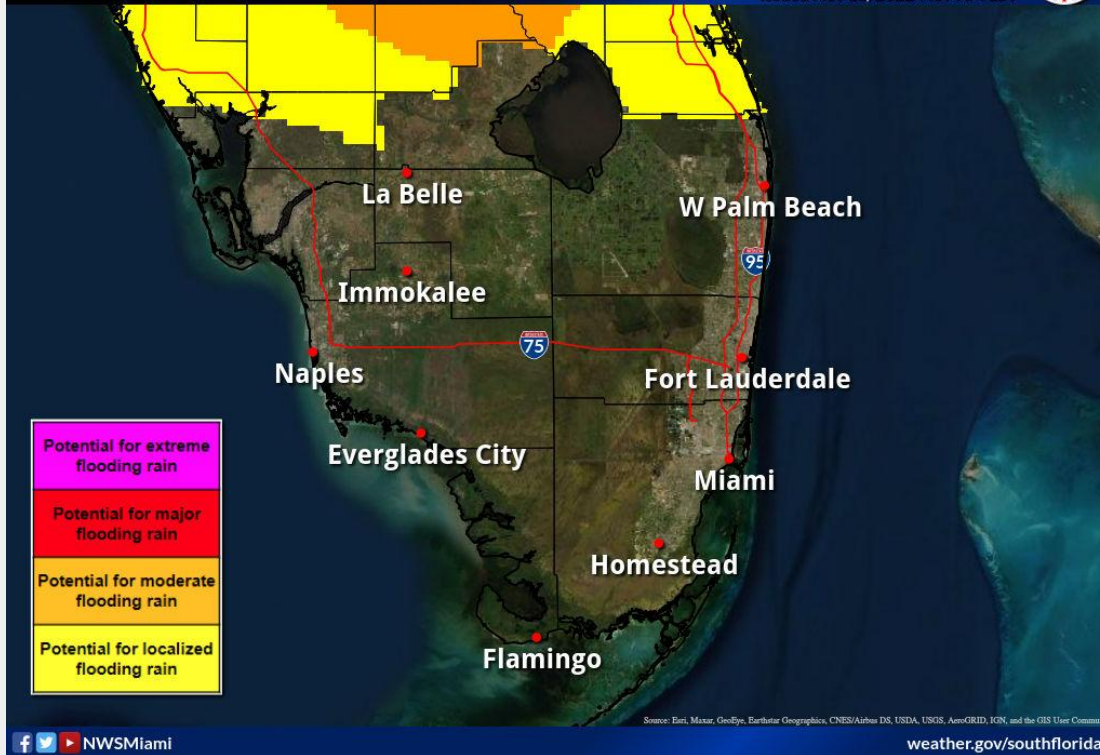


# Inland Flooding Impacts

None

## Flooding Rain Threat

Weather Forecast Office  
Miami/South Florida  
Issued Nov 10, 2022 7:39 AM EST

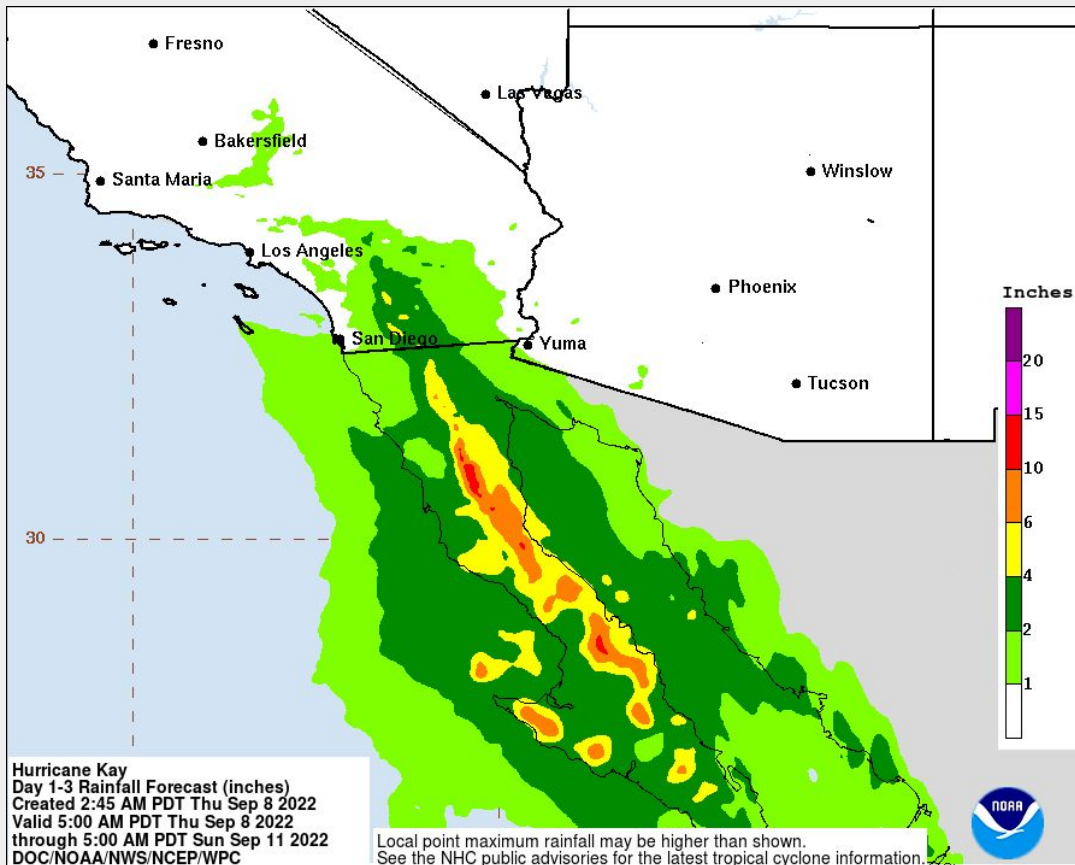


- Areas outlined in <yellow> <orange> <red> have the greatest potential for flash flooding on < day >
- For generalized potential impacts, use Impact Graphics statements as guidelines



# Expected Storm Total Rainfall

## Hurricane Beryl



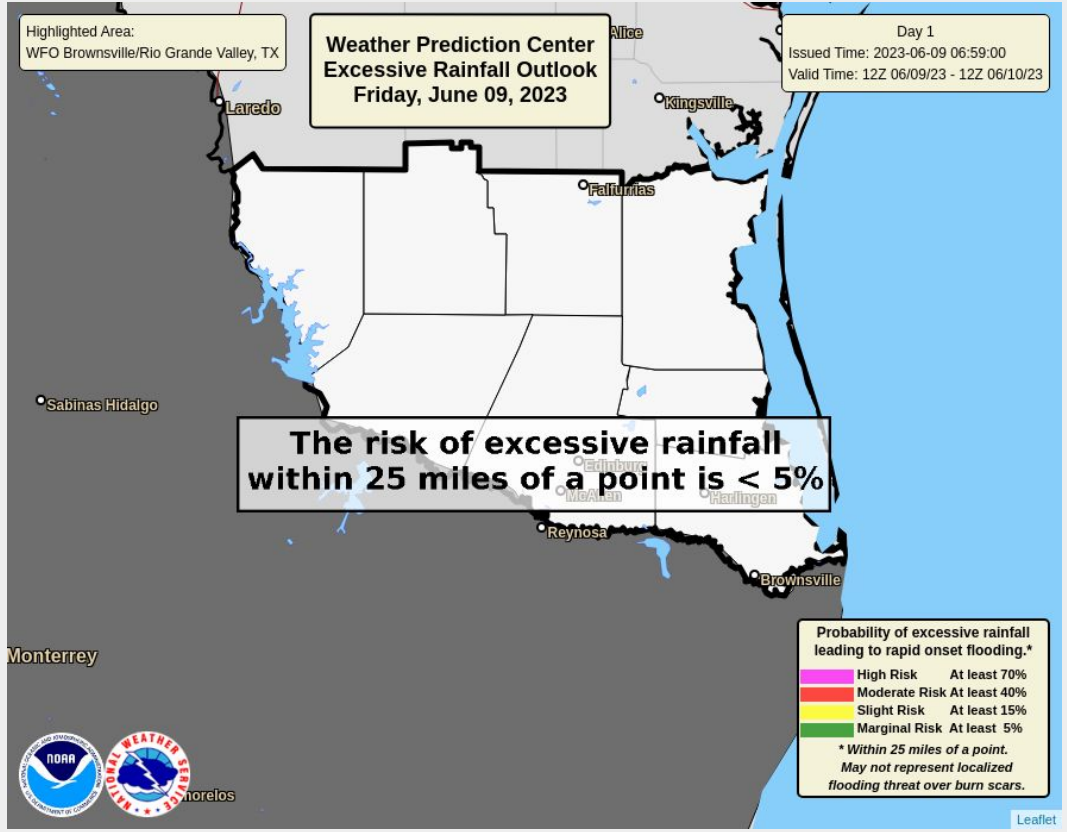
Last updated: 7/5/2024 8:06 AM CDT

National Weather Service - Houston/Galveston, TX



# Excessive Rainfall Outlook

None



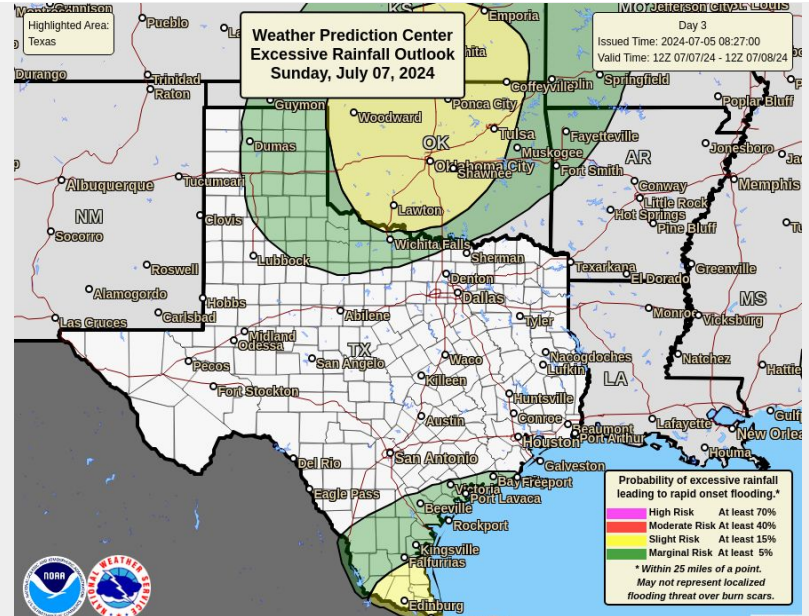
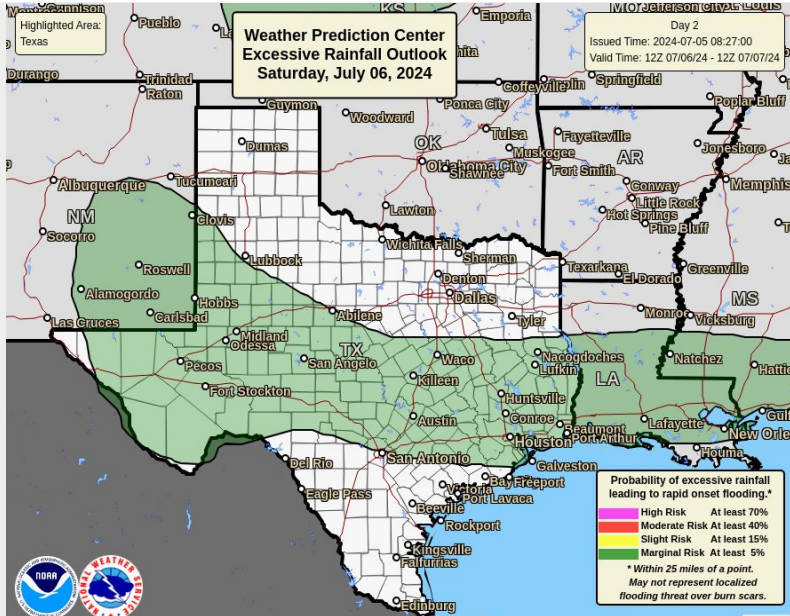
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# Excessive Rainfall Outlook

Hurricane Beryl

- Areas outlined in <yellow> <orange> <red> have the greatest potential for flash flooding on < day >
- For generalized potential impacts, use Impact Graphics statements as guidelines



Last updated: 7/5/2024 7:53 AM CDT

National Weather Service - Houston/Galveston, TX

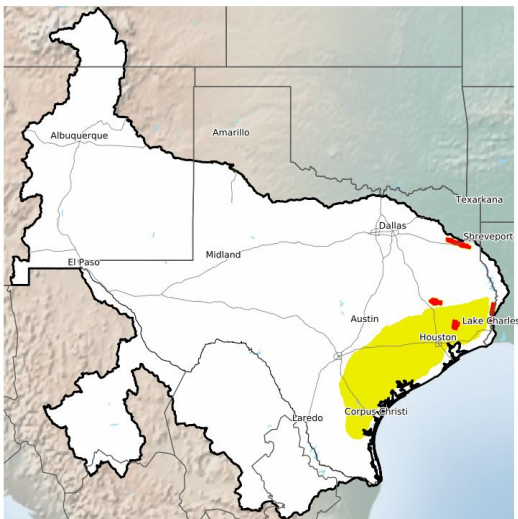


# River Flood Outlook

None

## 5-Day Significant River Flood Outlook

Valid: 06/16/2024 07:00 AM - 06/21/2024 07:00 AM CDT



National Weather Service  
West Gulf RFC

06/16/2024 10:50 AM CDT

Follow Us:



[weather.gov/WGRFC](https://weather.gov/WGRFC)

Significant River Flooding impacts include road hazards and damage to residential, commercial, and/or agricultural areas. Evacuation may be required. Flash flooding or Minor river flooding are NOT included in this outlook. Check your local weather forecast frequently for the most up-to-date information for your area.

Shaded areas are the forecast region of the West Gulf River Forecast Center



**Significant River Flooding Not Expected**



**Significant River Flooding Possible**

Weather conditions indicate, without certainty that significant river flooding could occur



**Significant River Flooding Likely**

Weather conditions indicate that significant river flood conditions can be expected



**Significant River Flooding Occurring**

Significant river flooding is occurring at this time



# Flood Hazard Outlook

## Hurricane Kay

**Experimental 7-Day Flood Hazard Outlook: Tropical Storm Earl**  
 Includes Flash, River, and Tidal Flood Hazards

Issued: 2022-09-05 04:00 PM CDT (21:00 UTC) | Valid Through: 2022-09-12 04:00 PM CDT (21:00 UTC) | Next Issuance: 2022-09-06 04:00 PM CDT (21:00 UTC)

### Flood Hazard Messages

**Puerto Rico**

- Earl is expected to produce additional rainfall amounts of 1 to 4 inches, with isolated storm totals of 8 inches, across the Leeward Islands, U.S. and British Virgin Islands, and Puerto Rico through Monday.
- Limited flash, urban, and small stream flooding impacts and rapid rises on rivers are possible through early this week, especially across northern portions of Puerto Rico, including the metropolitan area of San Juan.
- Locally considerable flood impacts cannot be ruled out in areas that receive heavier rainfall totals.
- Mudslides are also possible in areas of steep terrain across the central interior region of Puerto Rico for the next several days.
- Please see smaller inset map in the bottom right for the potential flooding impacts and timing.

Potential Flooding Impacts	Timing	Official Forecast Points
<span style="display: inline-block; width: 15px; height: 15px; background-color: #ff00ff; border: 1px solid black;"></span> Catastrophic	<span style="display: inline-block; width: 15px; height: 15px; border: 1px solid black; border-style: dashed;"></span> Days 1-3	<span style="display: inline-block; width: 10px; height: 10px; background-color: purple; border-radius: 50%;"></span> Major Flood
<span style="display: inline-block; width: 15px; height: 15px; background-color: #0000ff; border: 1px solid black;"></span> Considerable	<span style="display: inline-block; width: 15px; height: 15px; border: 1px solid black; border-style: dashed;"></span> Days 4-7	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; border-radius: 50%;"></span> Moderate Flood
<span style="display: inline-block; width: 15px; height: 15px; background-color: #add8e6; border: 1px solid black;"></span> Limited	<span style="display: inline-block; width: 15px; height: 15px; border: 1px solid black; border-style: dashed;"></span> Days 1-7	<span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border-radius: 50%;"></span> Minor Flood

Puerto Rico & U.S. Virgin Islands

0 50 mi

Disclaimer: This outlook provides an overview of potential flooding impacts. Please refer to detailed products issued by local National Weather Service offices for official forecasts and warnings. ([www.weather.gov](http://www.weather.gov))

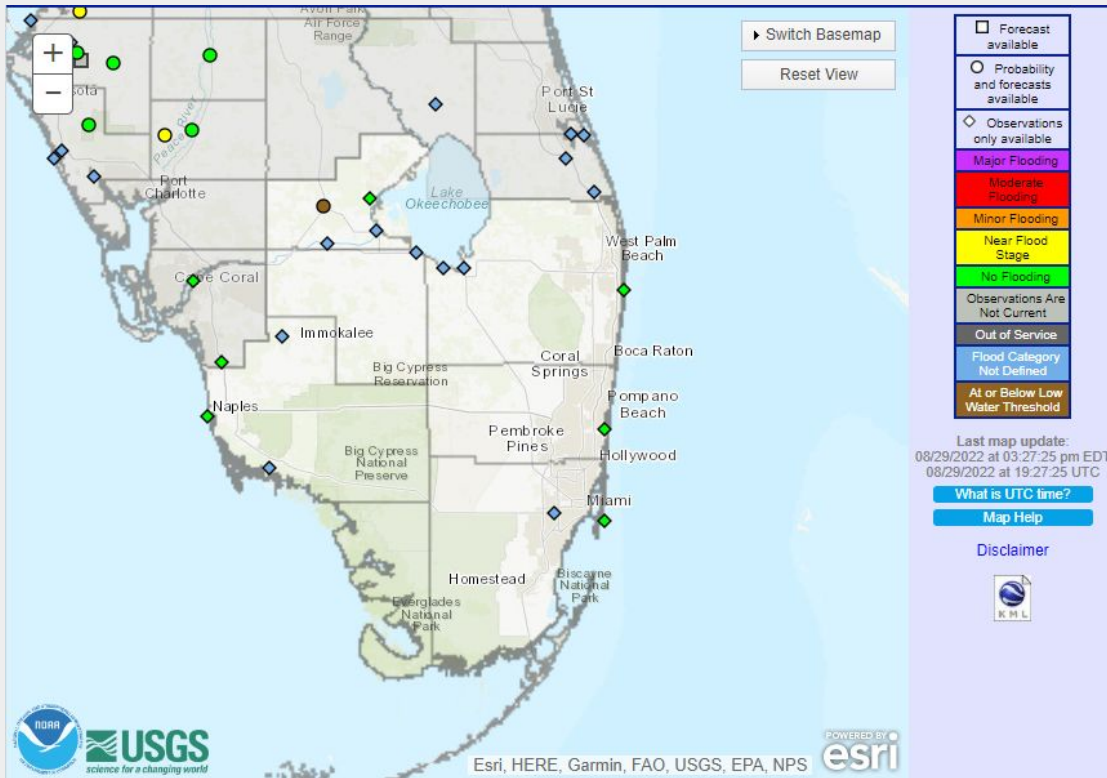
To learn more or provide feedback, visit: [https://nws.weather.gov/products/PDB/PDD\\_ExpFloodHazardOutlook\\_2022.pdf](https://nws.weather.gov/products/PDB/PDD_ExpFloodHazardOutlook_2022.pdf)





# River Flooding

None



- Discuss what rivers are in moderate/major flood, or forecast to soon rise into moderate/major flood
- Be sure to discuss what additional rainfall not currently included in the RFC forecast may do



# River Flood Table

None

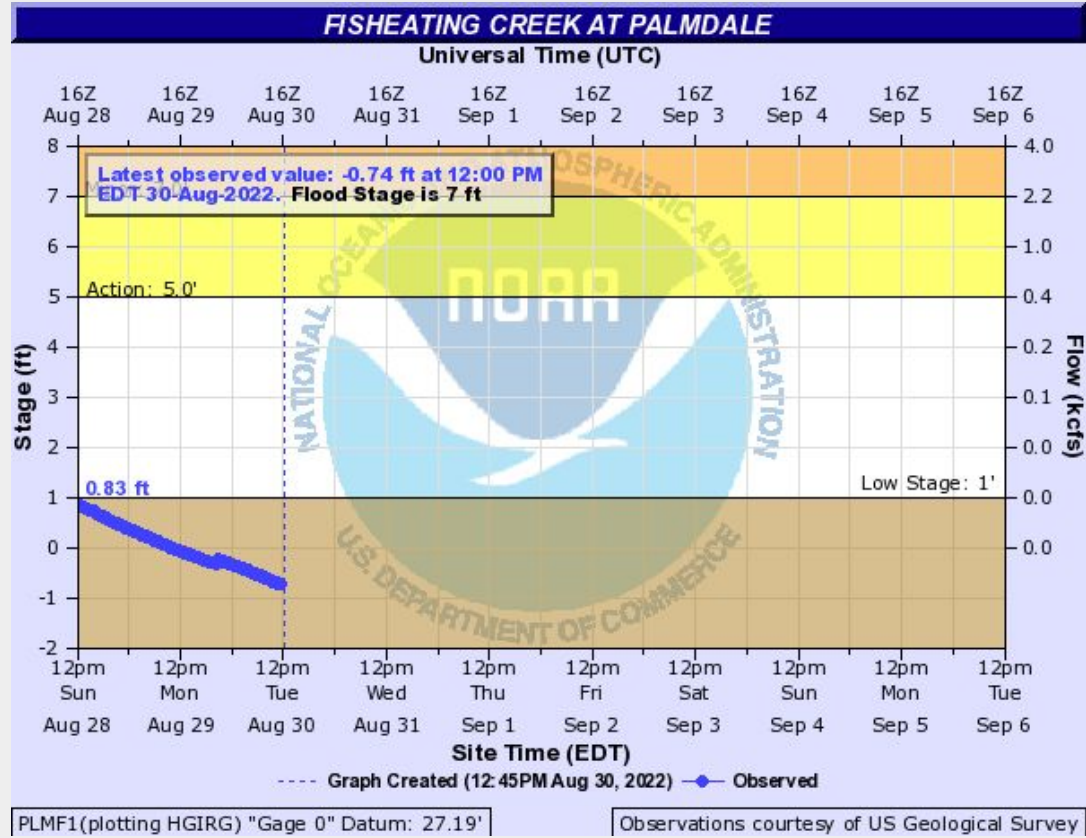
Location	Flood Stage	Current Level	Forecast Crest & Category	Crest Date

**Major River Flooding**   **Moderate River Flooding**   **Minor River Flooding**   **Near Flood**



# Expected River Flooding

None

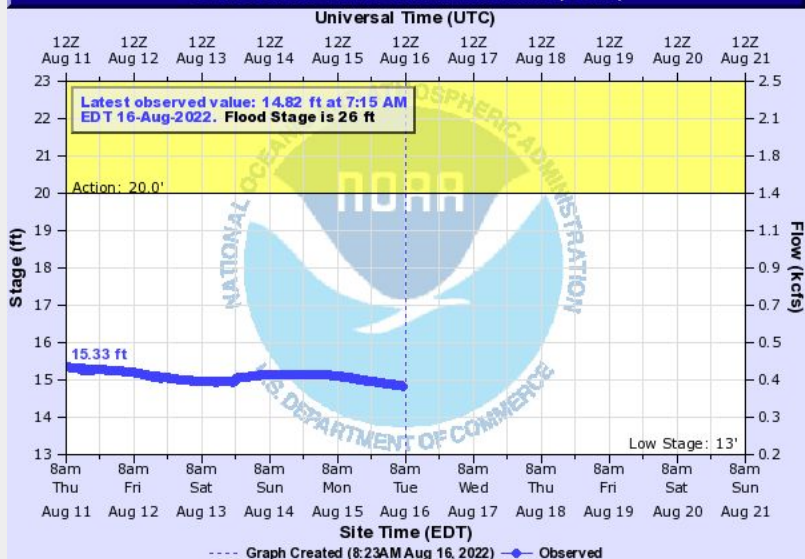




# Expected River Flooding

None

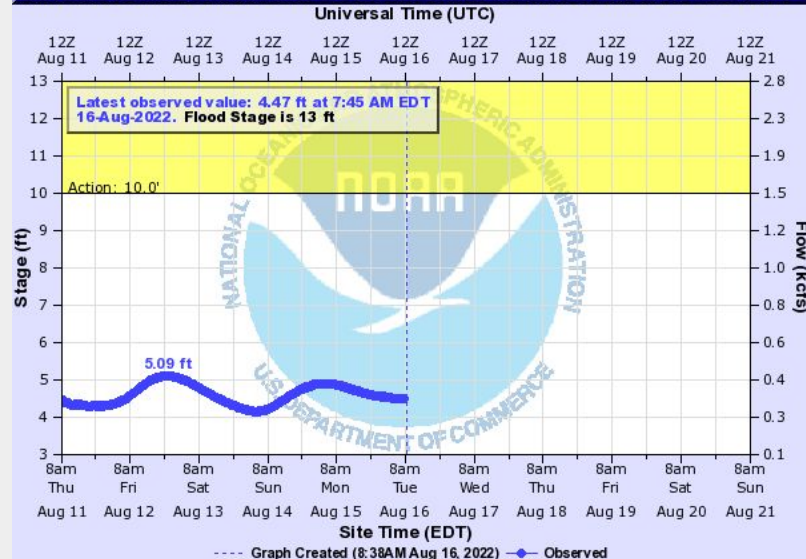
### OCHLOCKONEE RIVER NEAR HAVANA (US 27)



HVNF1(plotting HGIRG) "Gage 0" Datum: 59.36'

Observations courtesy of US Geological Survey

### KINCHAFOONEE CREEK AT 11 E OF DAWSON AT PINWOOD RD IN LEE COUNTY



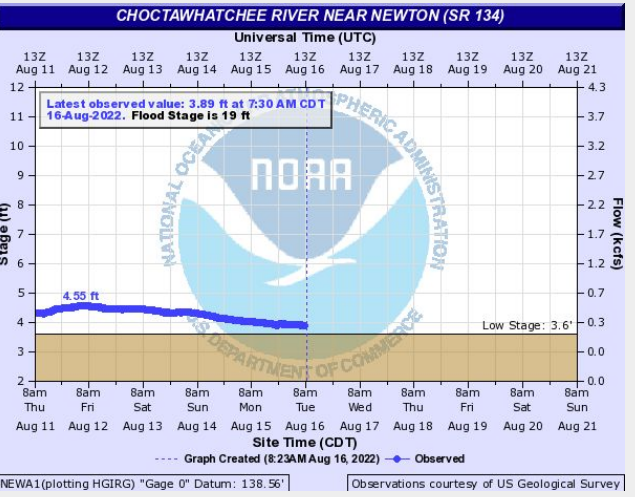
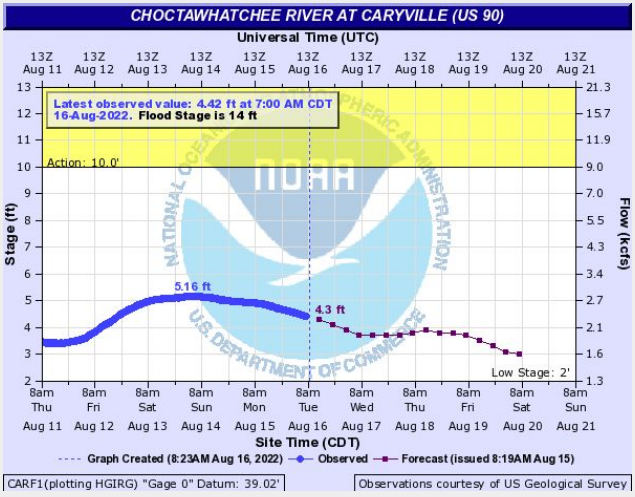
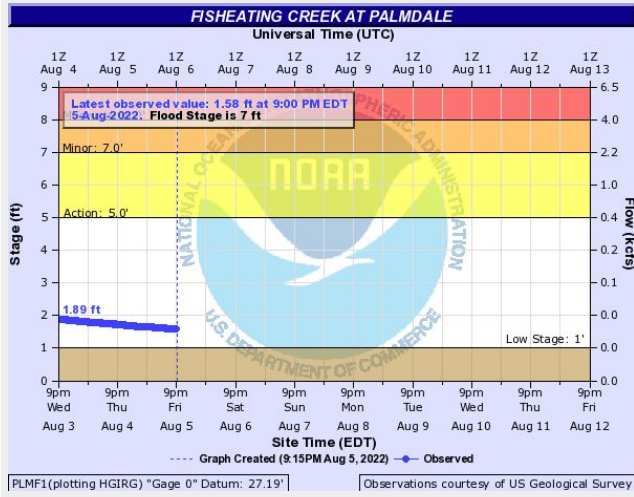
DSNG1(plotting HGIRG) "Gage 0" Datum: 210.67'

Observations courtesy of US Geological Survey



# Expected River Flooding

None



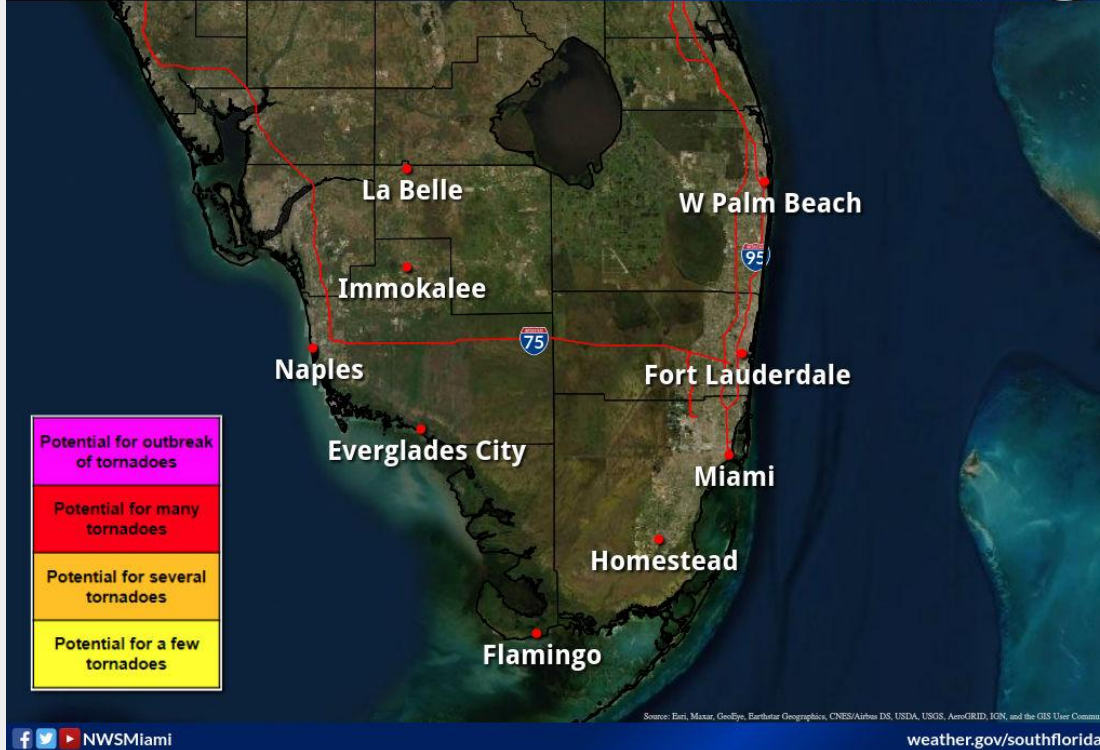


# Potential Tornado Impacts

None

## Tornado Threat

Weather Forecast Office  
Miami/South Florida  
Issued Nov 10, 2022 7:39 AM EST



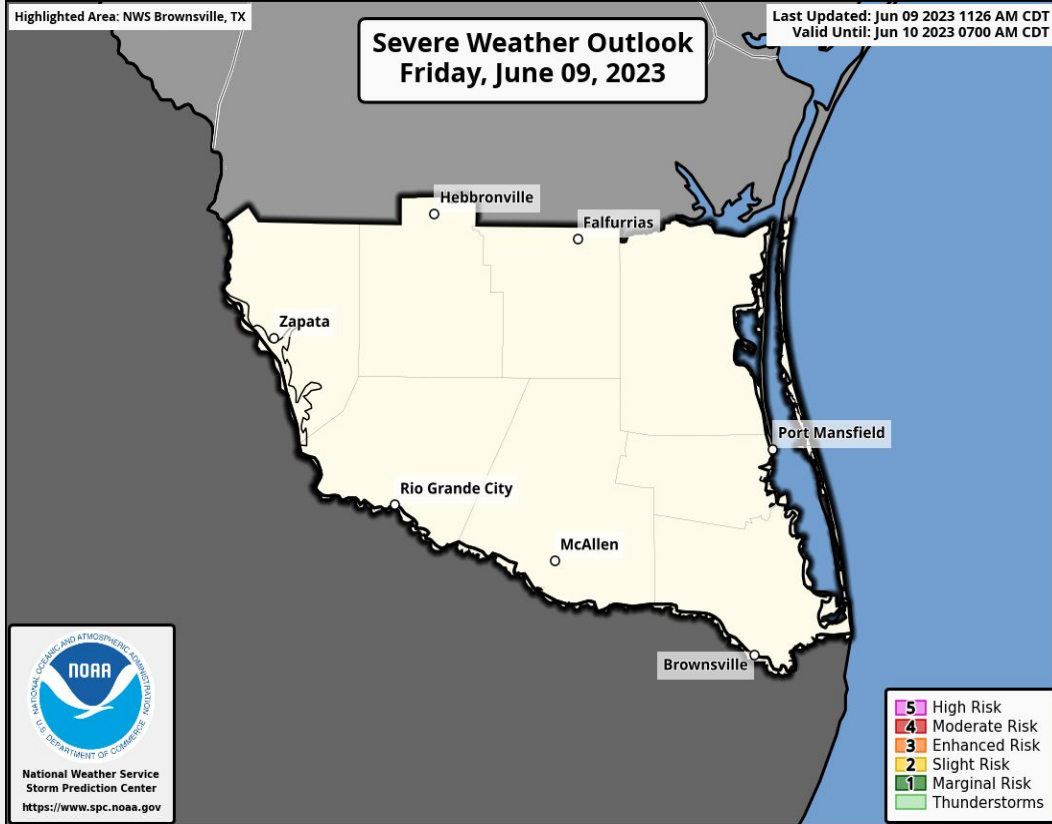
- Main threat of tornadoes would be from (day) (timing) to (day) (timing)

f t NWSMiami



# Tornado Potential

## Tropical Storm Alberto



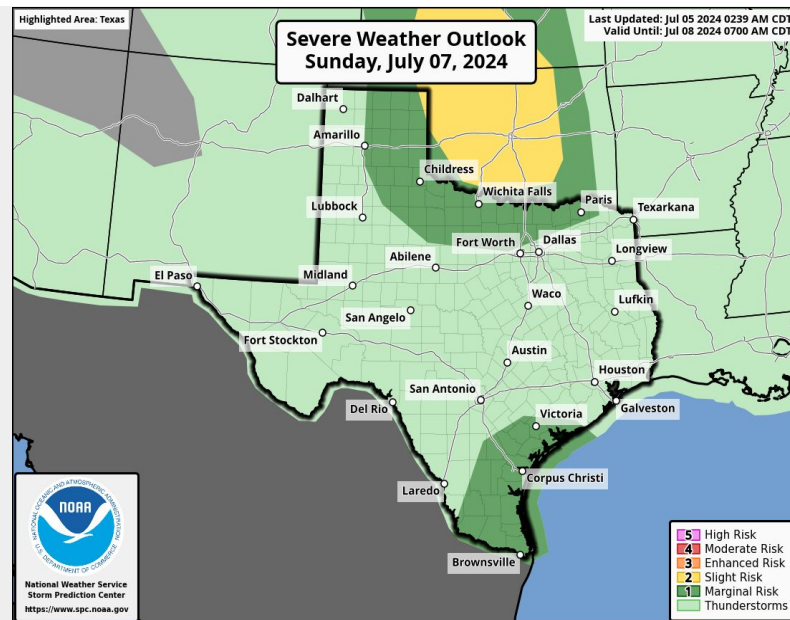
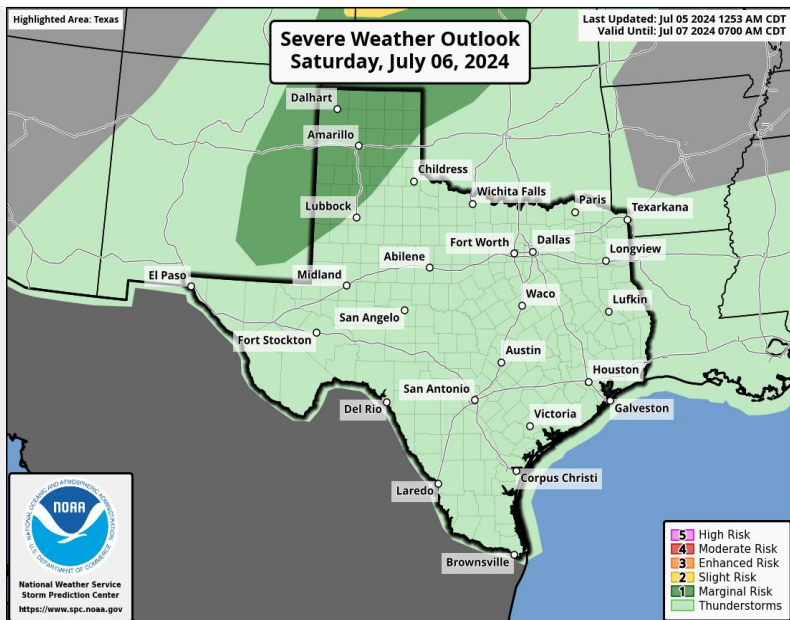
- Main threat of tornadoes would be from (day) (timing) to (day) (timing)



# Tornado Potential

Hurricane Beryl

- Main threat of tornadoes would be from (day) (timing) to (day) (timing)



Last updated: 7/5/2024 7:53 AM CDT

National Weather Service - Houston/Galveston, TX





# 5-Day Outlook

None

	Tuesday	Wednesday	Thursday	Friday	Saturday
Severe Thunderstorm	Orange	Yellow	White	White	White
Lightning	Red	Light Orange	White	White	White
Excessive Heat	White	White	White	White	White
High Surf	Light Green	Light Green	Light Green	Light Green	Light Green
Rip Current	Light Green	Light Green	Light Green	White	White

Risk Level	None	Limited	Elevated	Significant	Extreme
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# 5-Day Outlook

None

Threat	Monday	Tuesday	Wednesday	Thursday	Friday
Severe Storms					
Lightning					
Heat Index					
Insert other hazard here					
Risk Level	None	Limited	Elevated	Significant	Extreme



# Key Take-Aways

None

Confidence is [ LOW/MODERATE/HIGH ] that the event will occur  
Confidence is [ LOW/MODERATE/HIGH ] regarding impacts



Strong wind gusts expected, mainly north of <location>.



Surge flooding expected, mainly north of <location>.



Rainfall flooding likely, mainly north of <location>.



Isolated weak tornadoes, mainly north of <location>.



Dangerous marine conditions expected across the coastal waters.