



# FEMA



Prepared by  
*Brian Hoeth*

# FEMA Region 6 Weather Threat Briefing

Saturday July 25, 2020

**Disclaimer:** The purpose of this briefing is to provide a **Regional** weather threat assessment and is meant as a general overview. County/Parish decision makers should consult their local NWS forecast offices for the latest detailed, local weather information. To find your local NWS forecast office, go to [www.weather.gov/srh](http://www.weather.gov/srh).



- **Tropical Storm Hanna is 115 miles east southeast of Corpus Christi, TX and is moving W at 9 mph with max sustained winds of 70 mph.**
  - Forecast to become a **Category 1** hurricane before landfall today.
  - **Heavy rain/flash flooding** is expected across **STX** this weekend.
  - **Hurricane force winds** and **dangerous storm surge** along the **Middle to Lower TX Coast** today.
  - **A few brief tornadoes** today for **STX**.
- **Isolated heavy rain/flash flooding potential** associated with the **seasonal monsoon** continues over parts of **NM**.
- **Tropical Storm Gonzalo** will move into the **eastern Caribbean** tonight and **weaken, dissipating on Sunday**. **No impacts to FEMA 6**.

# FEMA Region 6 Threat Matrix



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Jul 25, 2020 - Jul 29, 2020

DAY / THREAT	Sat	Sun	Mon	Tue	Wed
Severe Storms	STX				
Heavy Rain / Flash Flooding	Deep South TX	Deep South & STX	N NM/NW OK TX & OK Panhandles	NM	NM
	STX	S & SETX/SW LA	SETX/Central&S LA		
Fire Weather					
Tropical Winds / Surge	Middle to Lower TX Coast				
Heat					
River Flooding	STX	STX	STX		

	No Weather Threats Expected
	Very Common – Happens Often
	Common – Happens Frequently
	Uncommon – A Few Times a Year
	Rare – Once Every 1-5 Years
	Very Rare – Once Every 5-10 Years

*\*Threat levels are based on FEMA Region 6 criteria. State or local threat level criteria may differ.\**  
*For more details on the colors in the threat matrix refer to the last slide in this briefing.*

# Tropical Weather Outlook – Atlantic/Gulf



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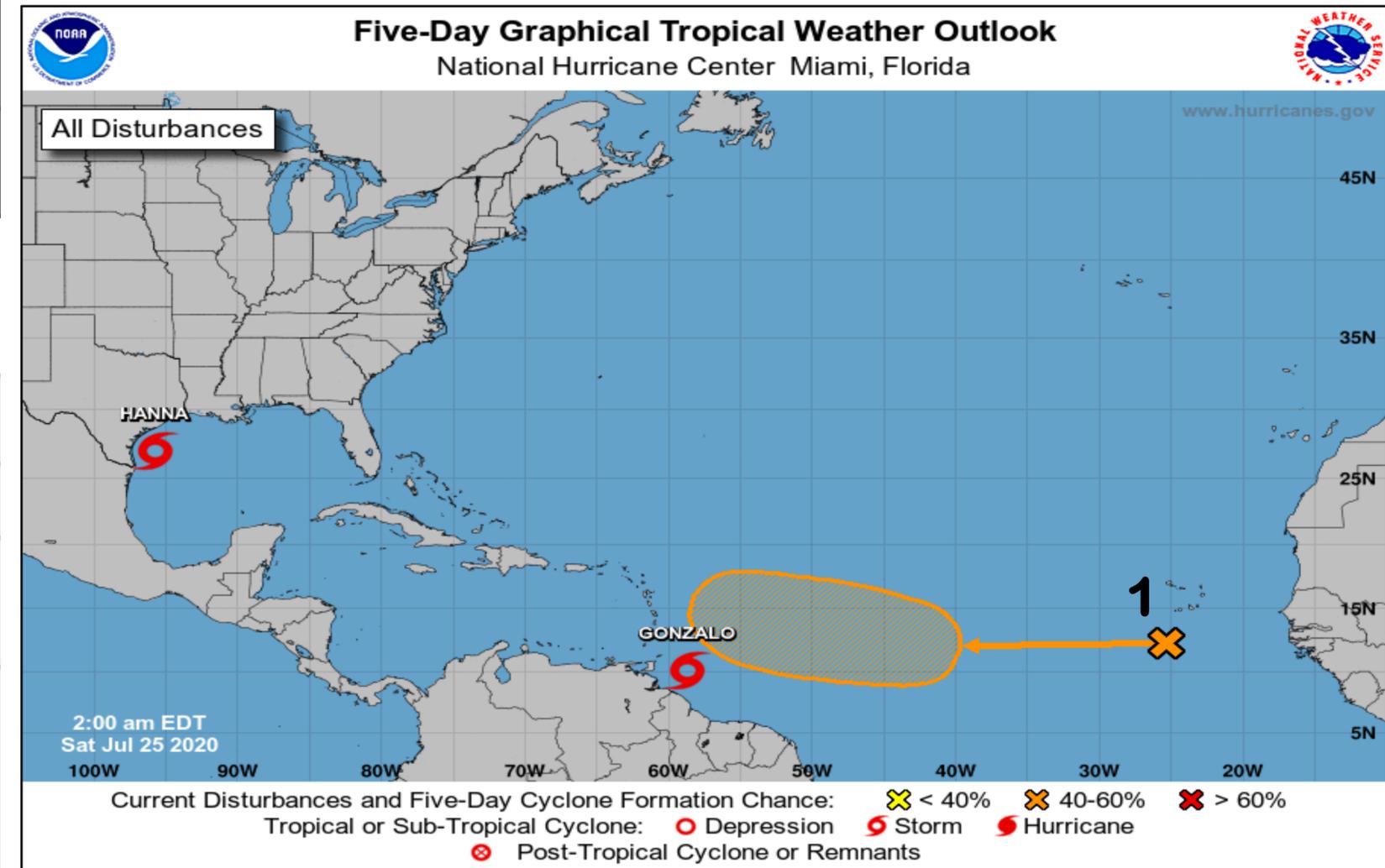
See next slide for more information

## Areas of Possible Development

Area	Chance of Development	Potential Impacts to FEMA 6
1	Medium	None in the next 5 days.

## Active Tropical Cyclones

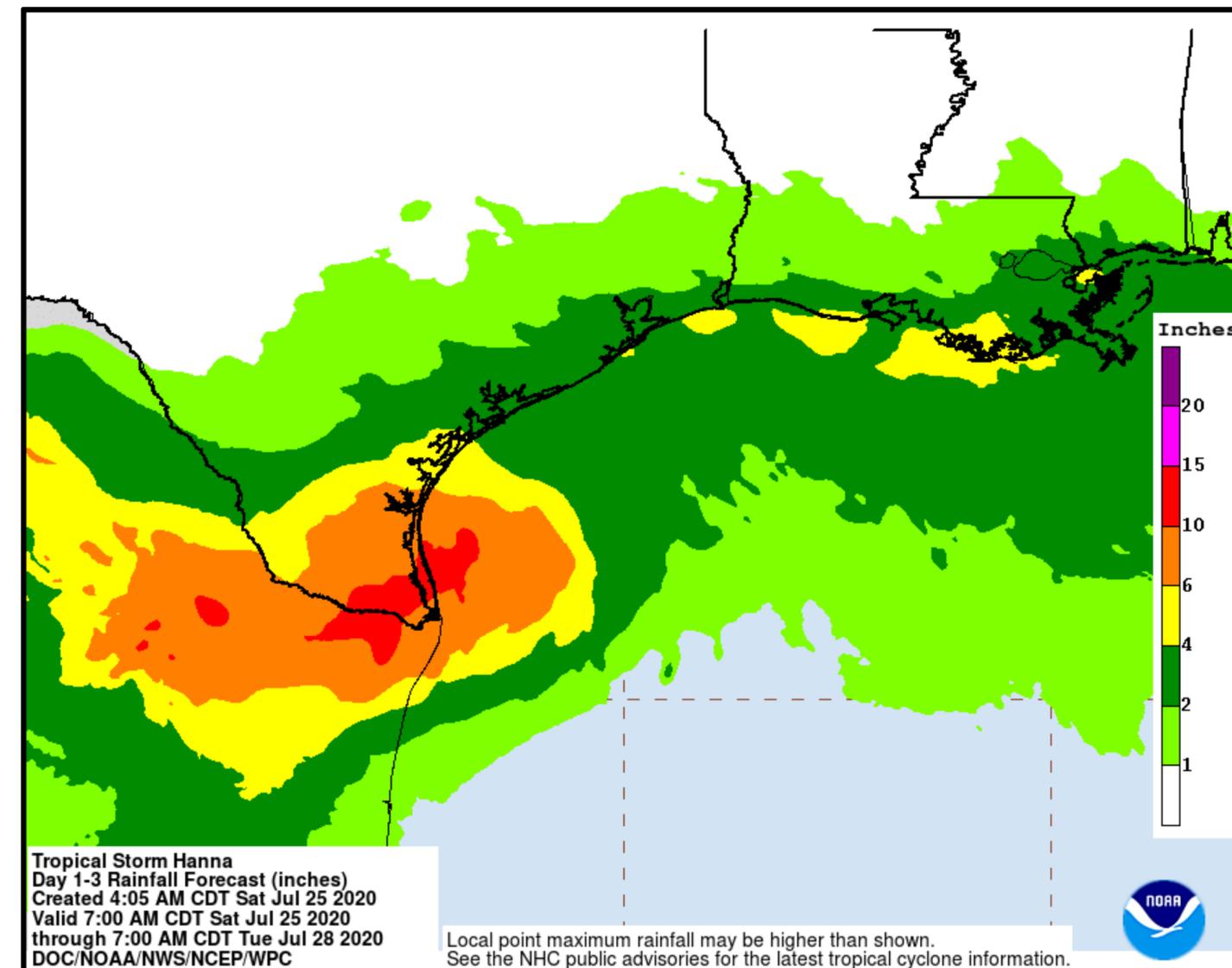
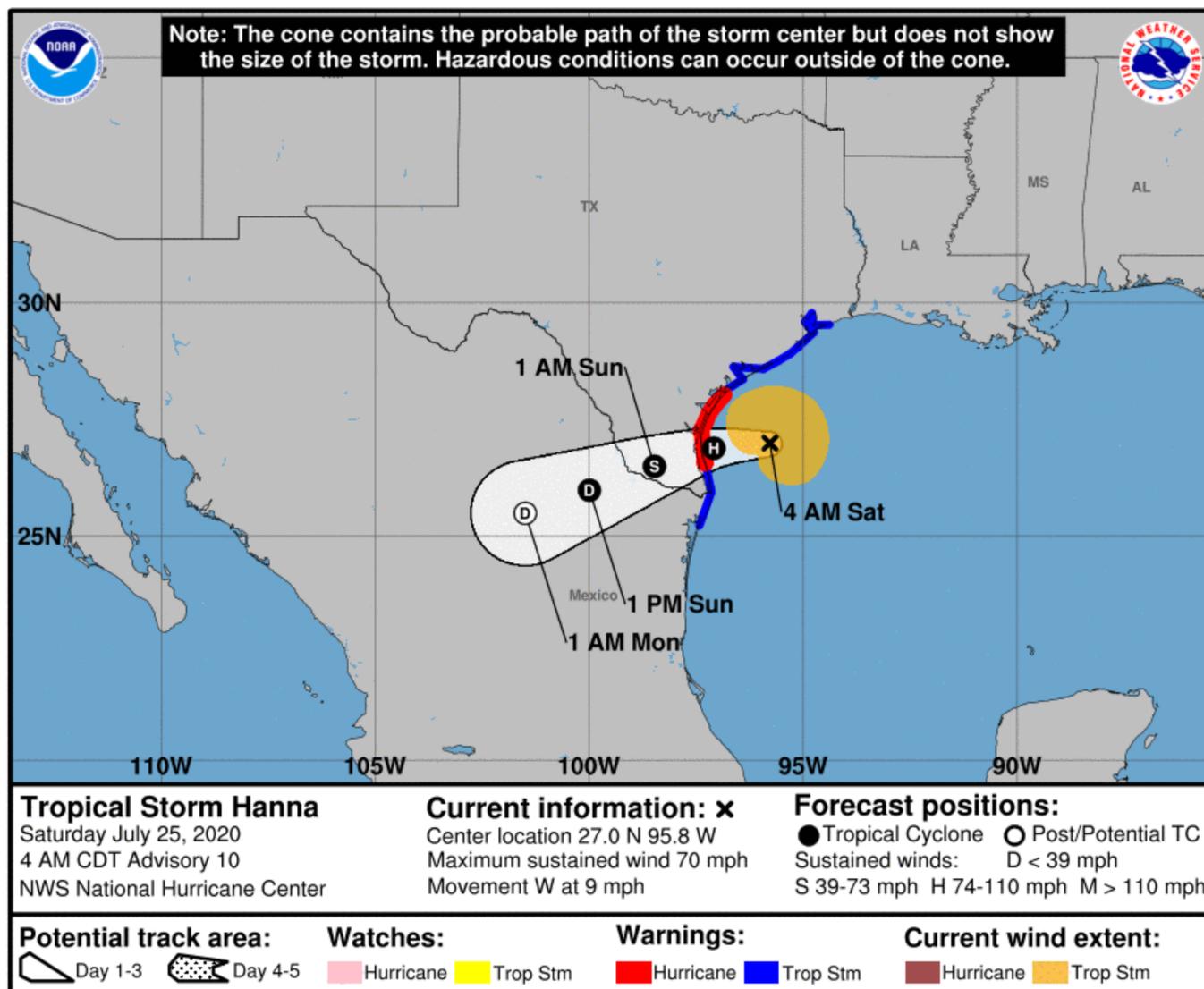
Storm	Potential Impacts to FEMA 6
Gonzalo	None.
Hanna	Locally heavy rain/flash flooding possible (6 – 12 inches/max 18 inches) across in S TX. Hurricane force winds and dangerous storm surge along the Middle to Lower TX Coast.



# Tropical Storm Hanna



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**Tropical Storm Hanna is 115 miles east southeast of Corpus Christi, TX and is moving W at 9 mph. Maximum sustained winds are 70 mph.**

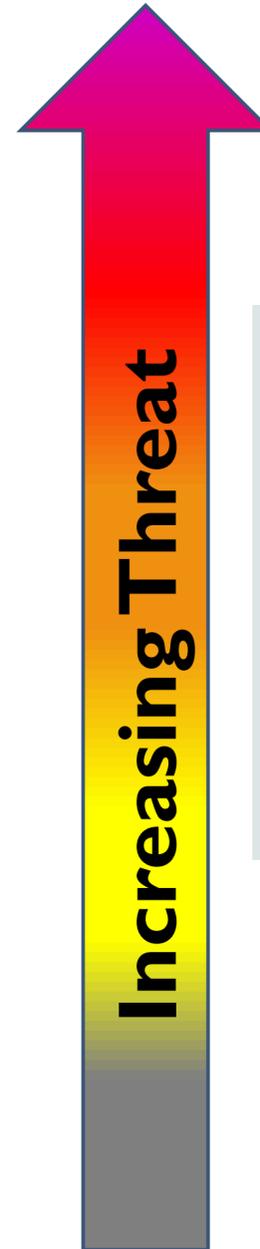
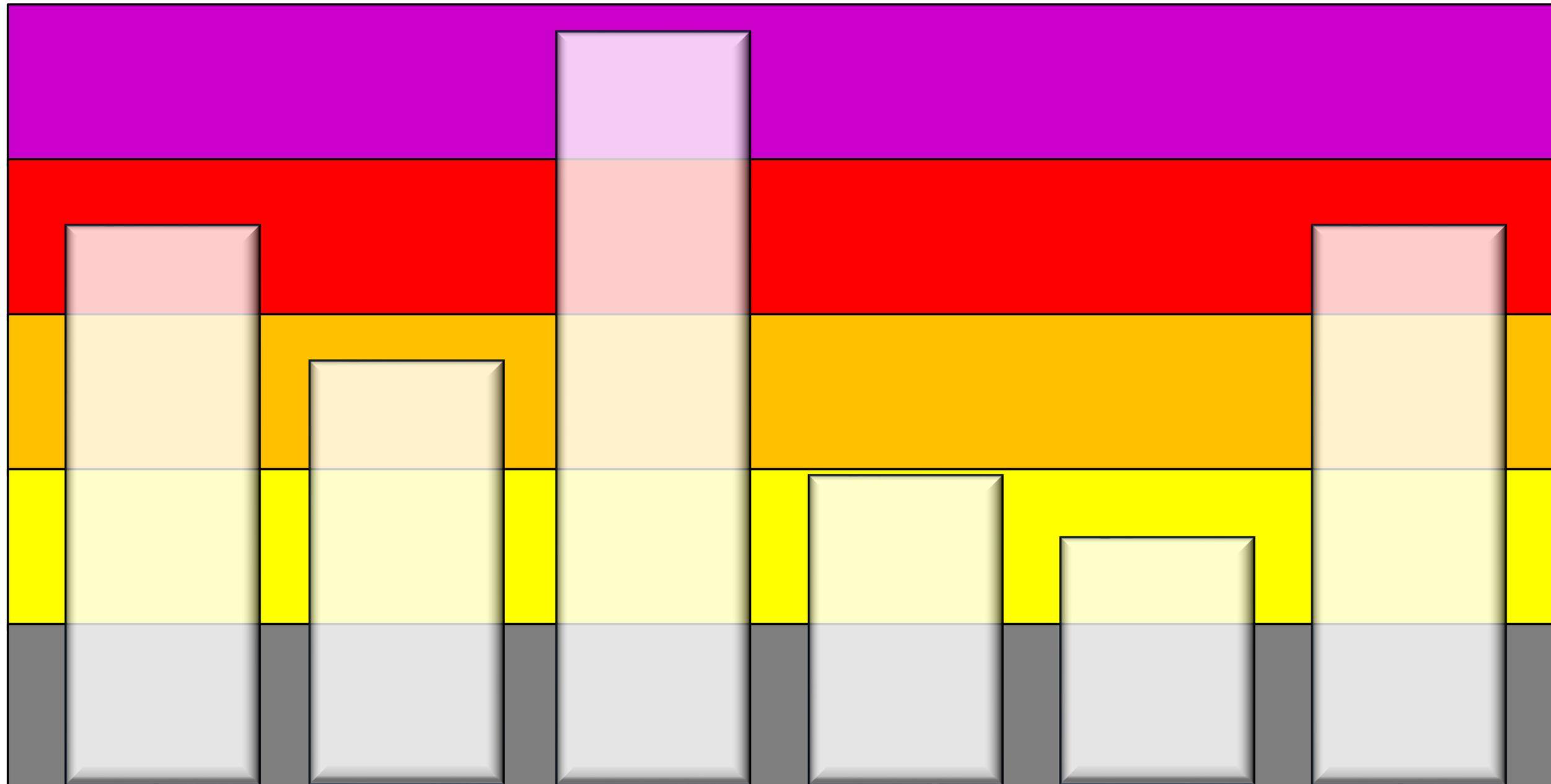
**Rainfall amounts of 6 to 12 inches with isolated amounts to 18 inches. Flash flooding is expected this weekend across South Texas.**

# Threat Levels

Tropical Storm Hanna



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

Wind

Surge

Rainfall/  
Flash Flooding

River  
Flooding

Tornadoes

Marine

# Tropical Threats and Impacts

For Tropical Storm Hanna

Weather Forecast Office  
Corpus Christi, TX

Issued July 25, 2020 4:22 AM CDT



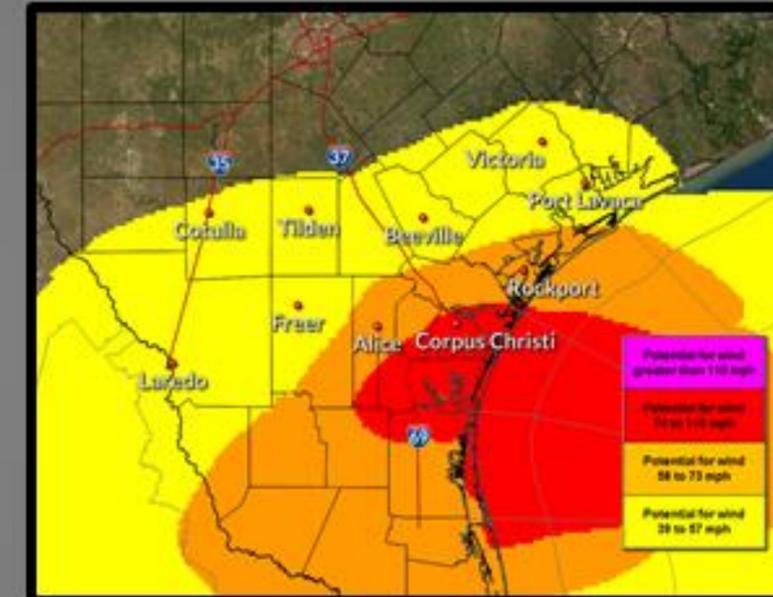
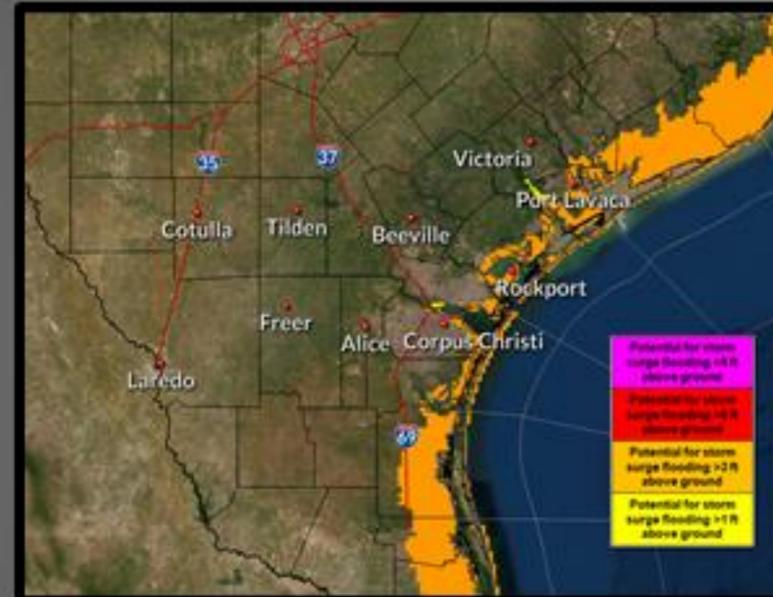
## Be Safe and prepare for these potential conditions

### Flooding Rain Threat

### Storm Surge Threat

### Wind Threat

### Tornado Threat



- Life-threatening flooding is possible
- Impacts include many evacuations and flooding of many structures

- Life-threatening surge of 3-5 feet of inundation expected.
- Major beach erosion with dock and marina damage

- Considerable structural damage to homes & unanchored mobile homes
- Downed trees & power outages

- Isolated tornadoes Saturday across the Coastal Bend
- A few places may experience tornado damage

# Rainfall Forecast

Tropical Storm Hanna



Brownsville/RGV  
WEATHER FORECAST OFFICE

## Dangerous Flash Flooding this Weekend

Weather Forecast Office  
Brownsville/RGV, TX



Expected Totals Through Monday Morning | Localized Totals up to 18" Issued Jul 25, 2020 2:07 AM CDT

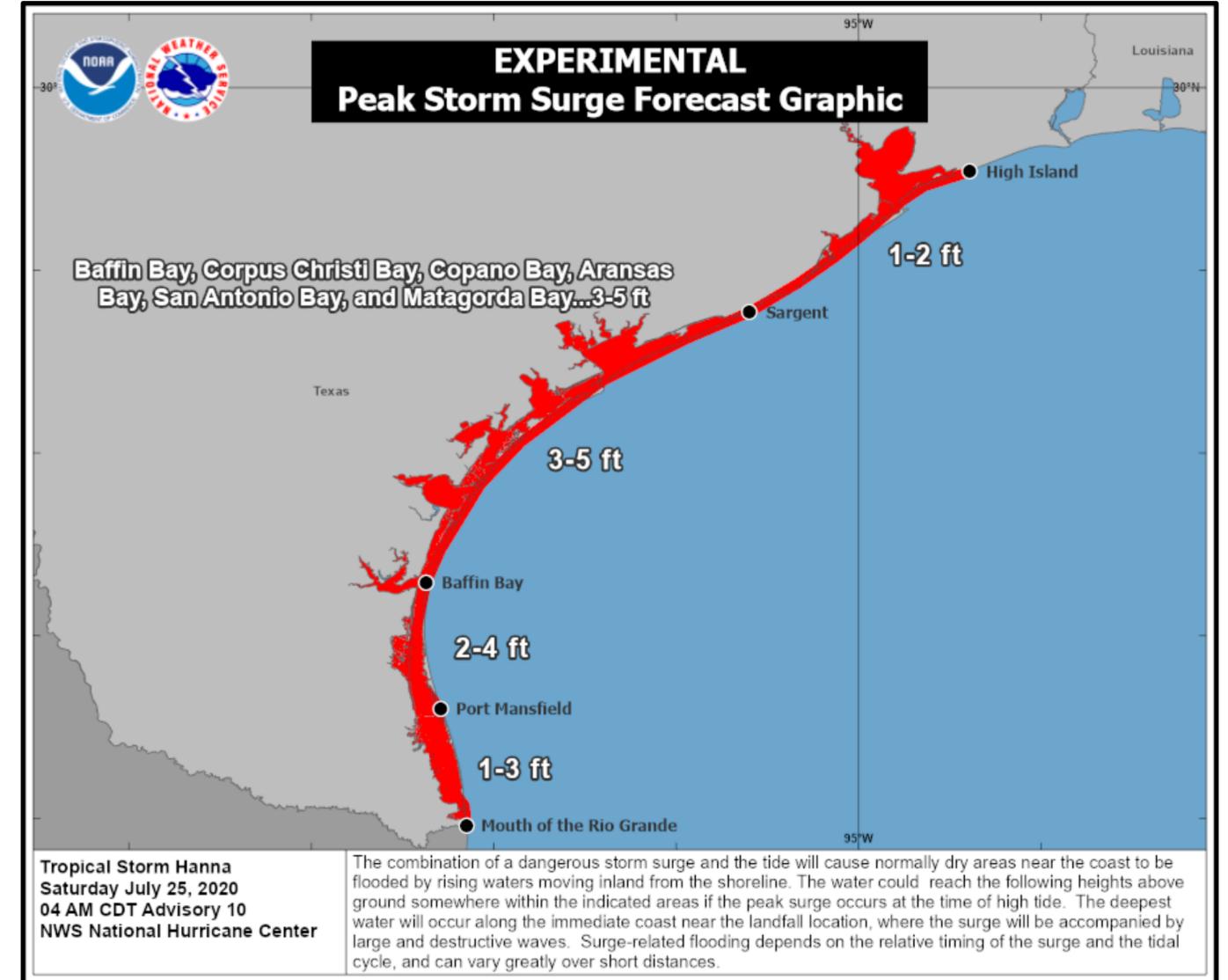
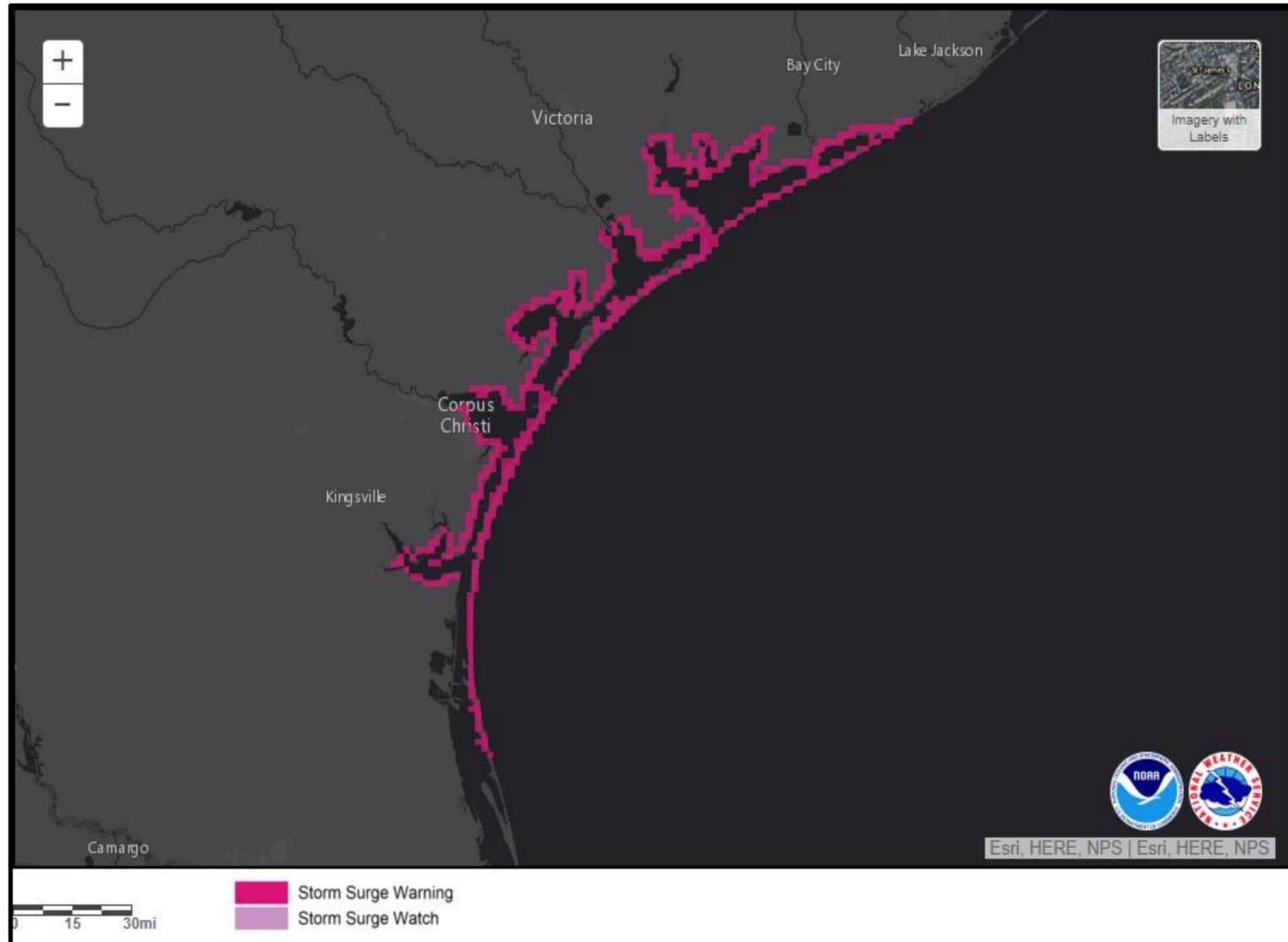


- Rainfall rates of 2-3 inches per hour possible, for several hours in bands peaking Saturday and Saturday night!
- 3+ feet of water depth potential with this event, and at least some some water rescues are likely to be necessary from Saturday into early Saturday.
- Persistent bands are likely to lead to impacts similar to flooding experienced in June 2018 and 2019 for at least some locations in the mid-Lower RGV.
- ***Dangerous to catastrophic flooding is likely at some locations in the RGV!***

# Tropical Storm Hanna – Storm Surge



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**Storm Surge Warnings from Port Mansfield to Sargent.**

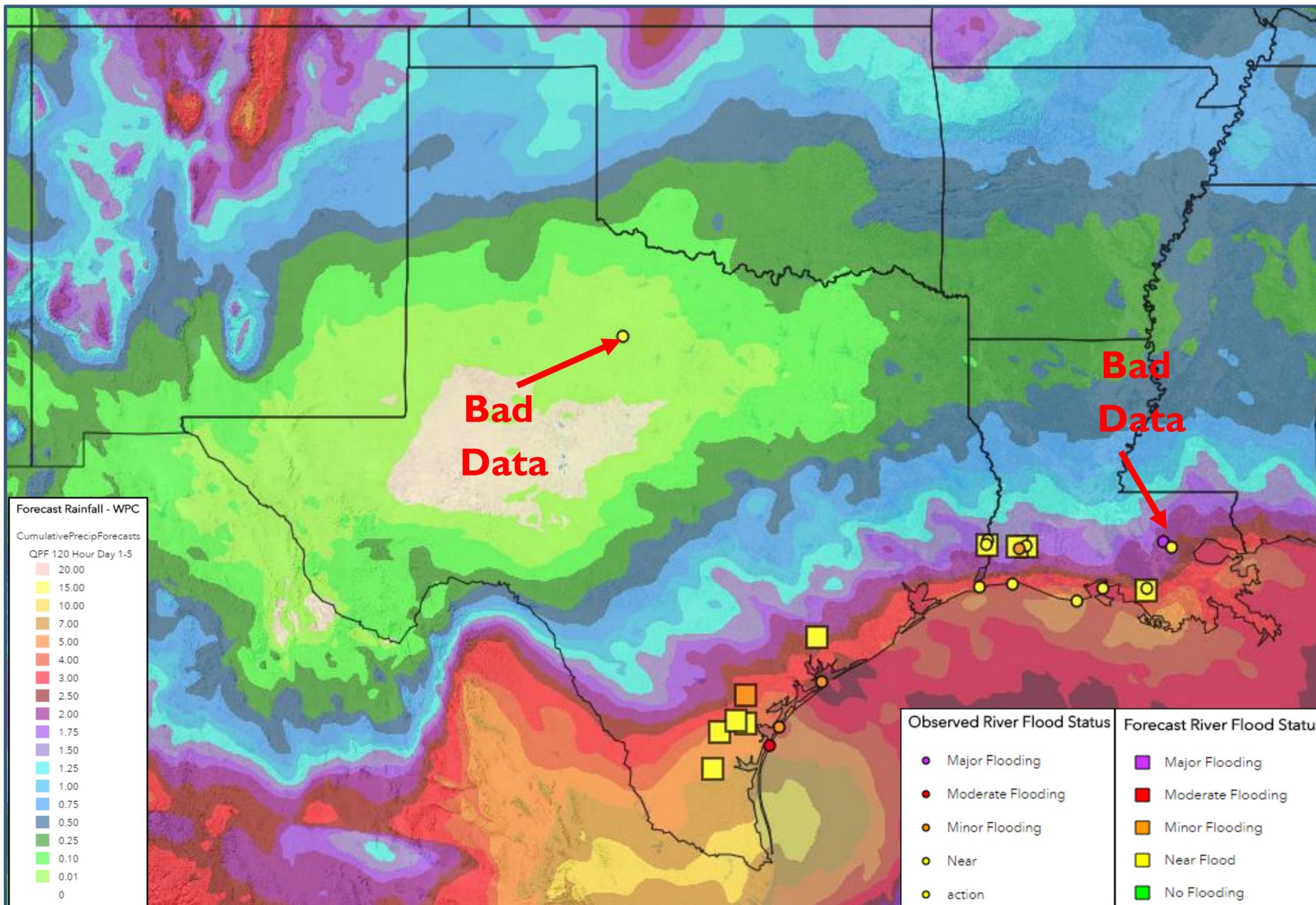
**Peak inundation values of 3 to 5 feet above normally dry ground.**

# 5-Day Precipitation Forecast & River Flood Status



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Note: Even though the image displays 5 days of forecasted rainfall, river forecasts only include 1-2 days of rainfall



**The Aransas River Near Skidmore is forecast to reach minor flood on Sunday night/Monday morning. Minor lowland flooding occurs which could impact a few residences. Crops and pasture lands are threatened.**

**Additional minor to isolated moderate flooding is possible in STX this weekend into Monday.**

**Note: There are very few river flood forecast points in Deep South Texas other than along the Rio Grande. Moderate to Major flooding is NOT expected on the main stem Rio Grande at this time.**

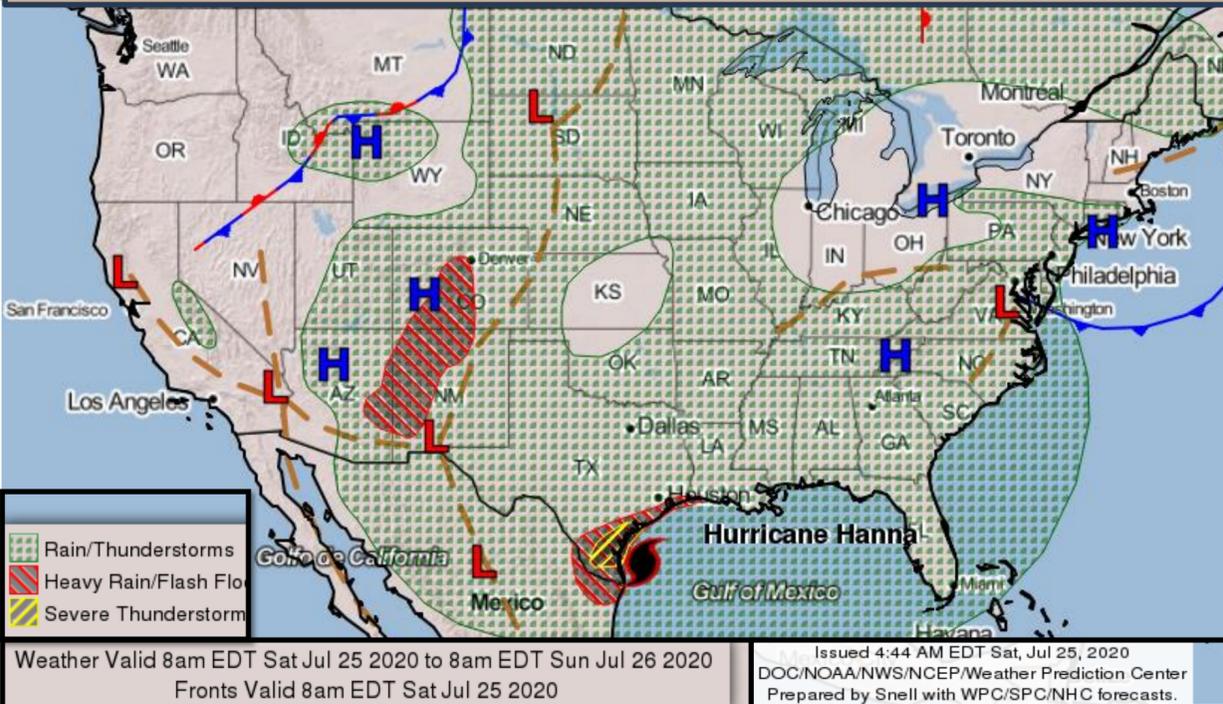
**Smaller streams and arroyos that feed into the Rio Grande WILL flood.**

# Today's Weather

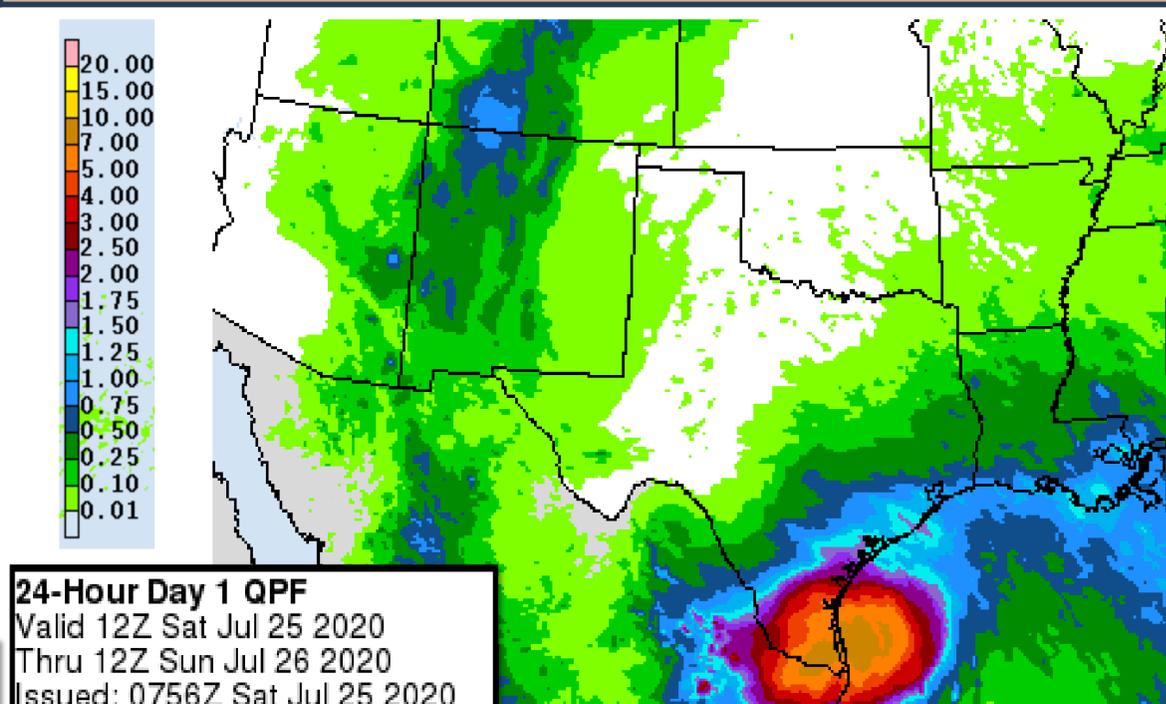


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## Forecast Chart



## Forecast Rainfall



**High risk of heavy rain and flash flooding across Deep South Texas.**

**Moderate risk of heavy rain and flash flooding across parts of Deep South and South TX.**

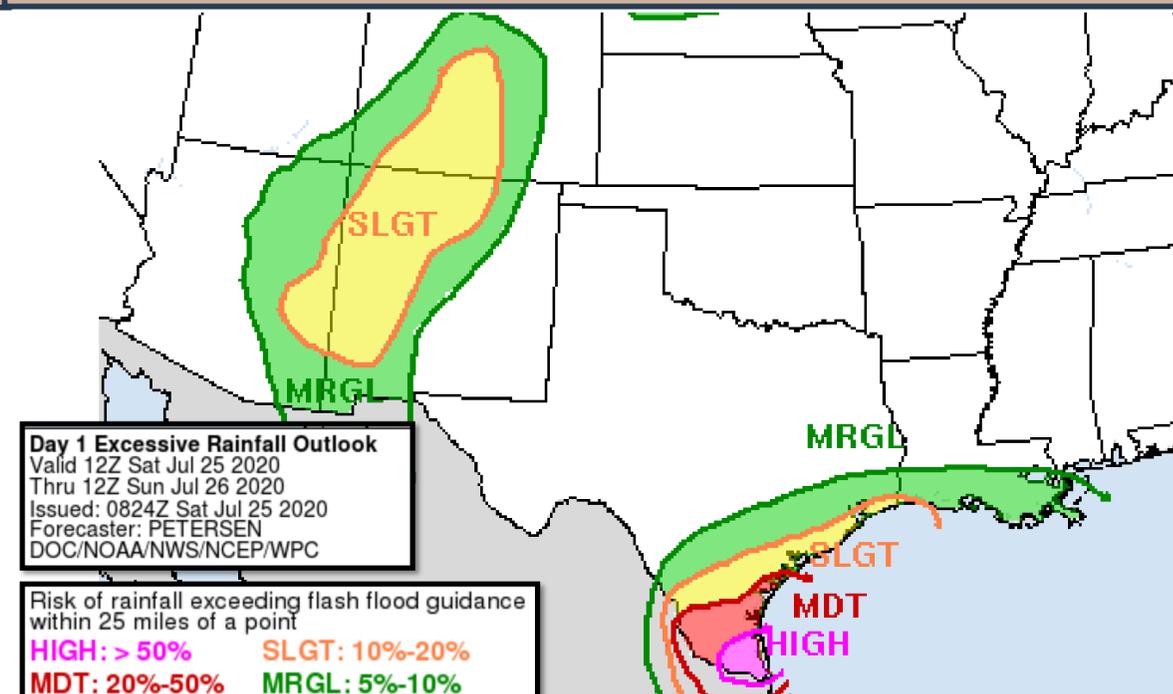
**Slight risk of severe storms across STX. Brief tornadoes are the main threat.**

**Slight risk of heavy rain and flash flooding across NM.**

## Severe Weather Outlook



## Excessive Rainfall Outlook



# Watches, Warnings, and Advisories

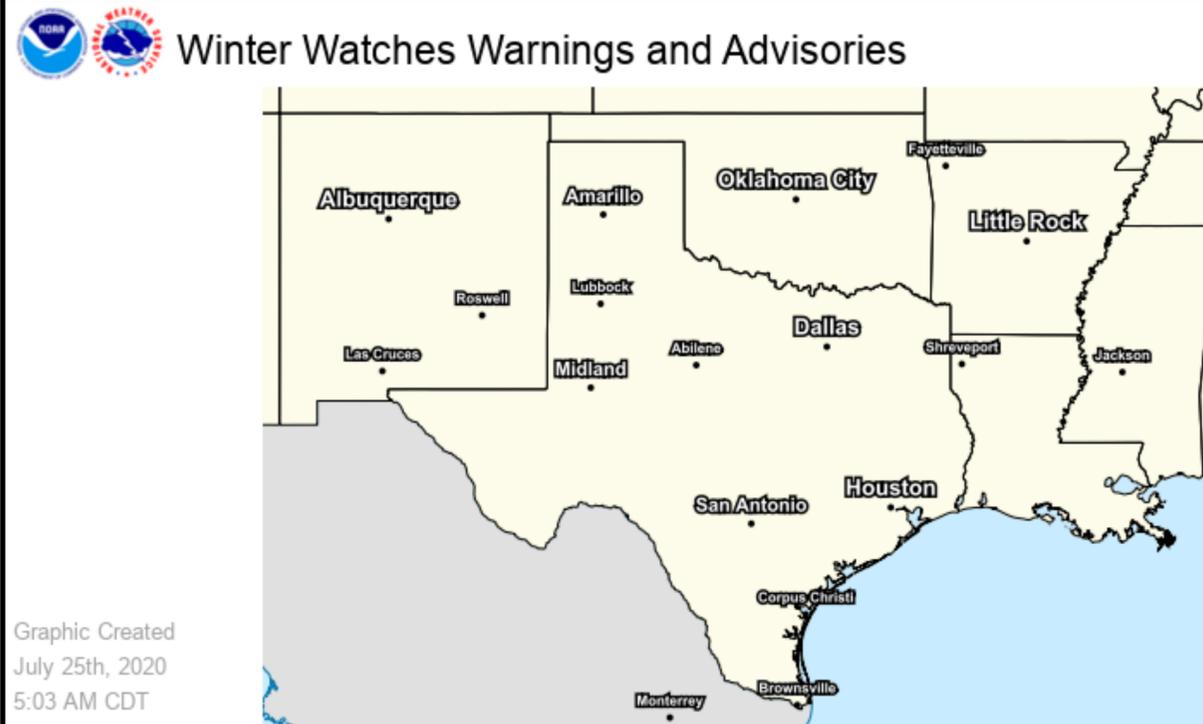


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Wind, Severe, Winter, and Flood Hazards



**Flash Flood Watches are in effect for SE into Deep South TX.**

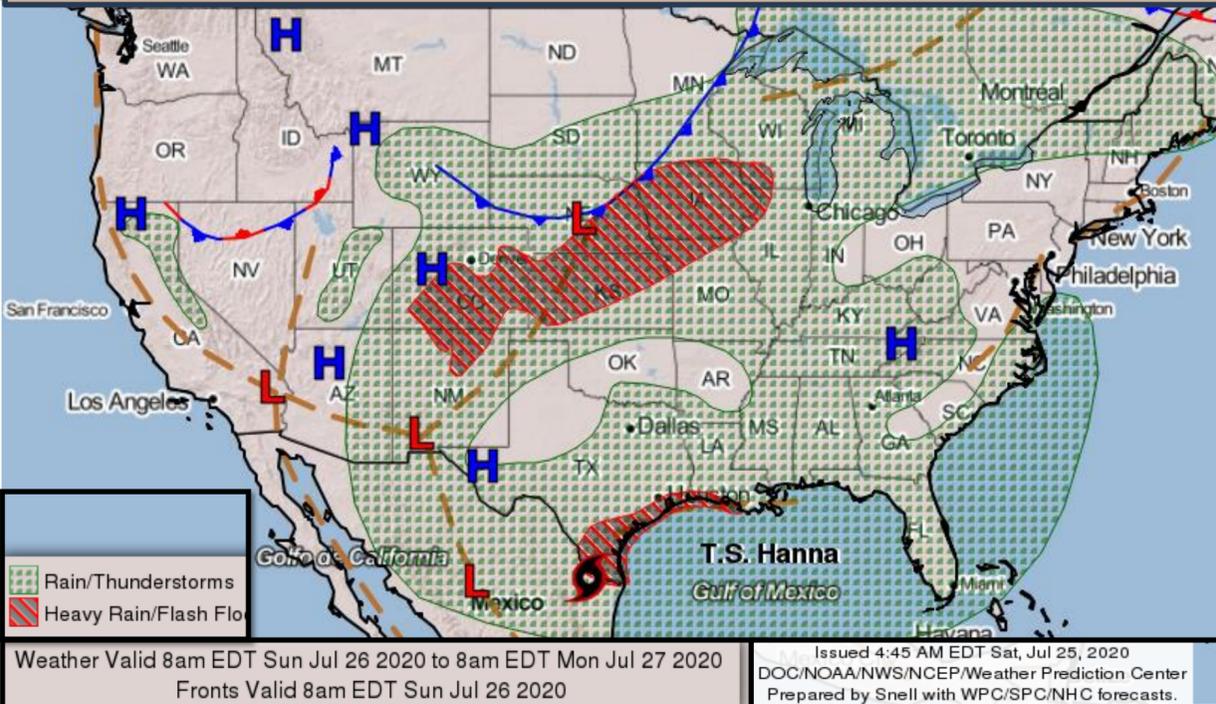


# Tomorrow's Weather

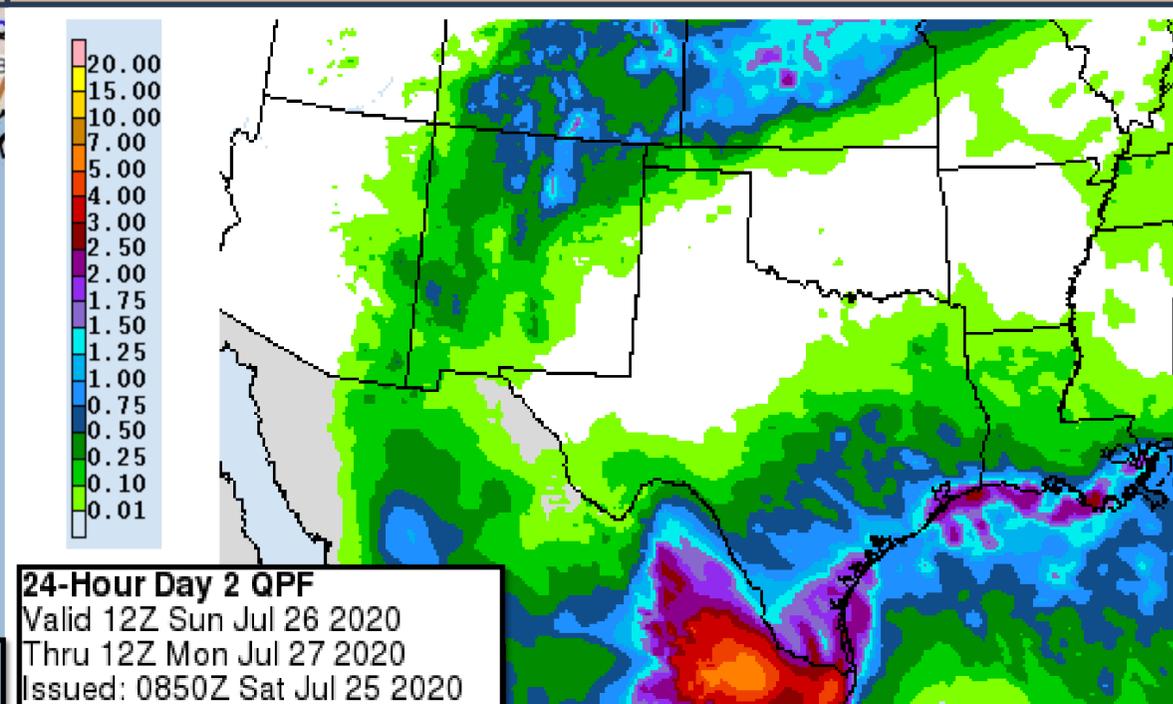


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## Forecast Chart



## Forecast Rainfall



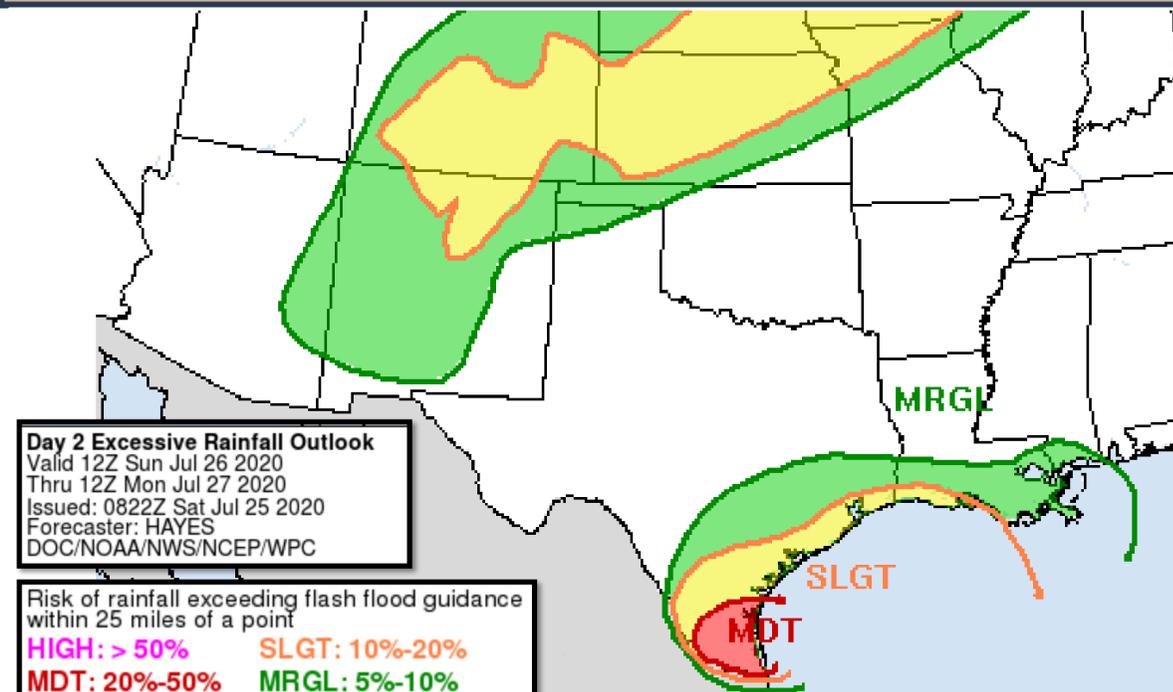
**Moderate risk of heavy rainfall and flash flooding across S TX and Deep South TX.**

**Slight risk of heavy rainfall and flash flooding across parts of S & SETX/S LA and NM.**

## Severe Weather Outlook



## Excessive Rainfall Outlook



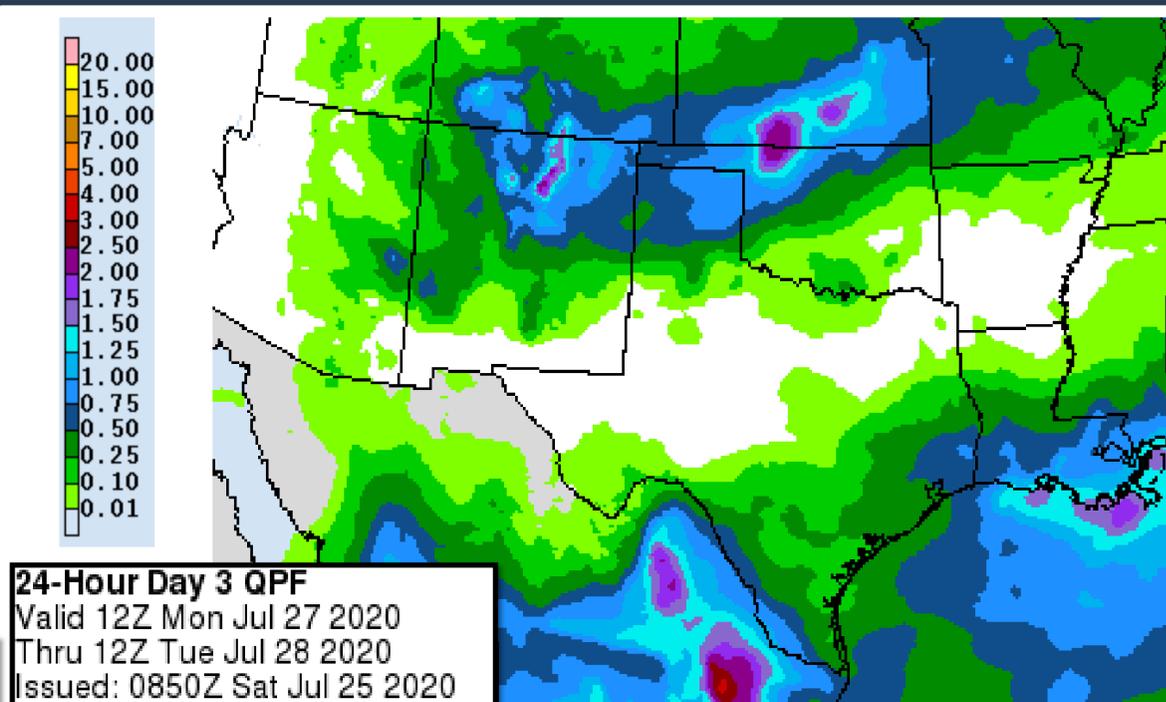
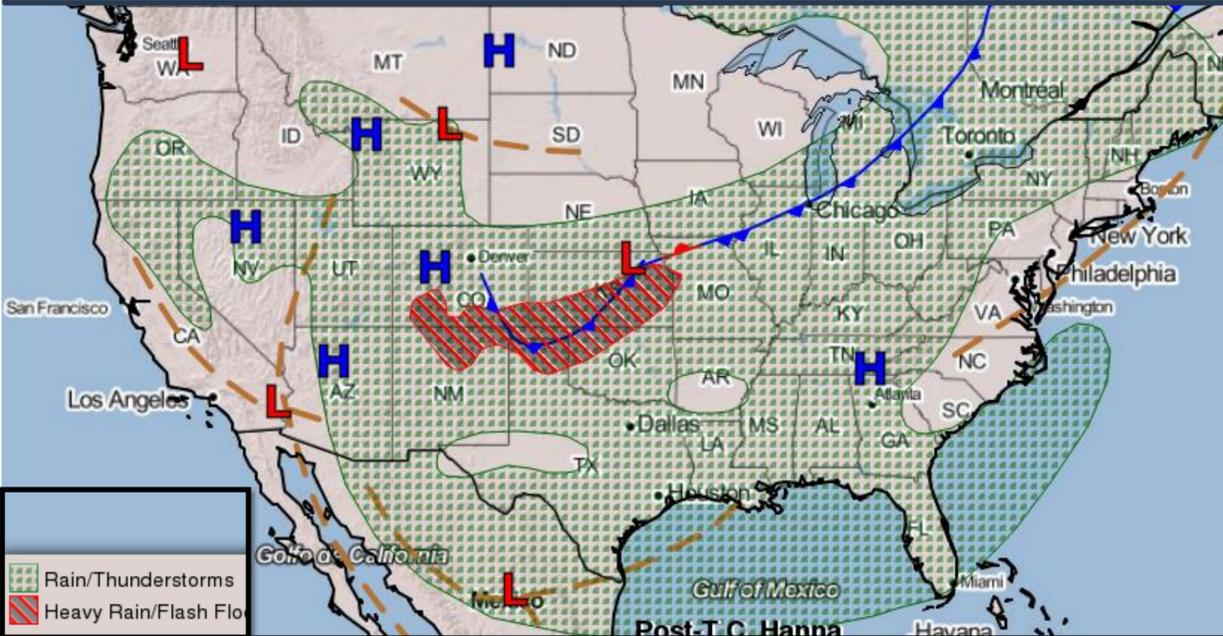
# Monday's Weather



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## Forecast Chart

## Forecast Rainfall



**Slight risk of heavy rainfall and flash flooding across the TX/OK Panhandles/N NM and NW OK.**

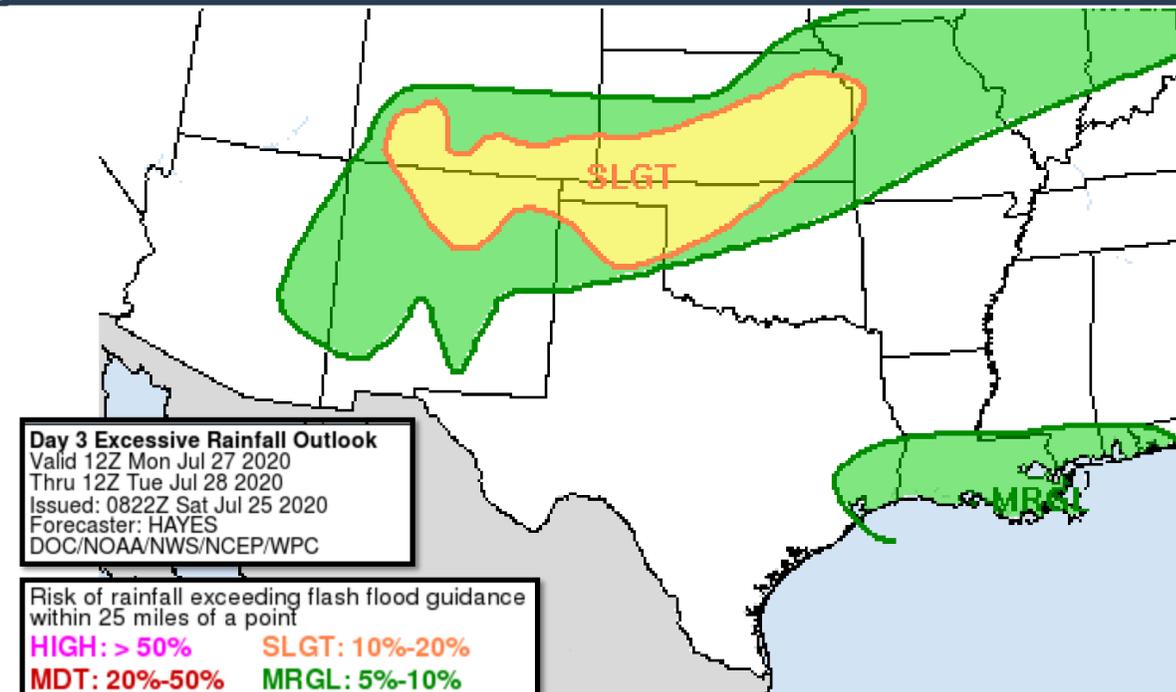
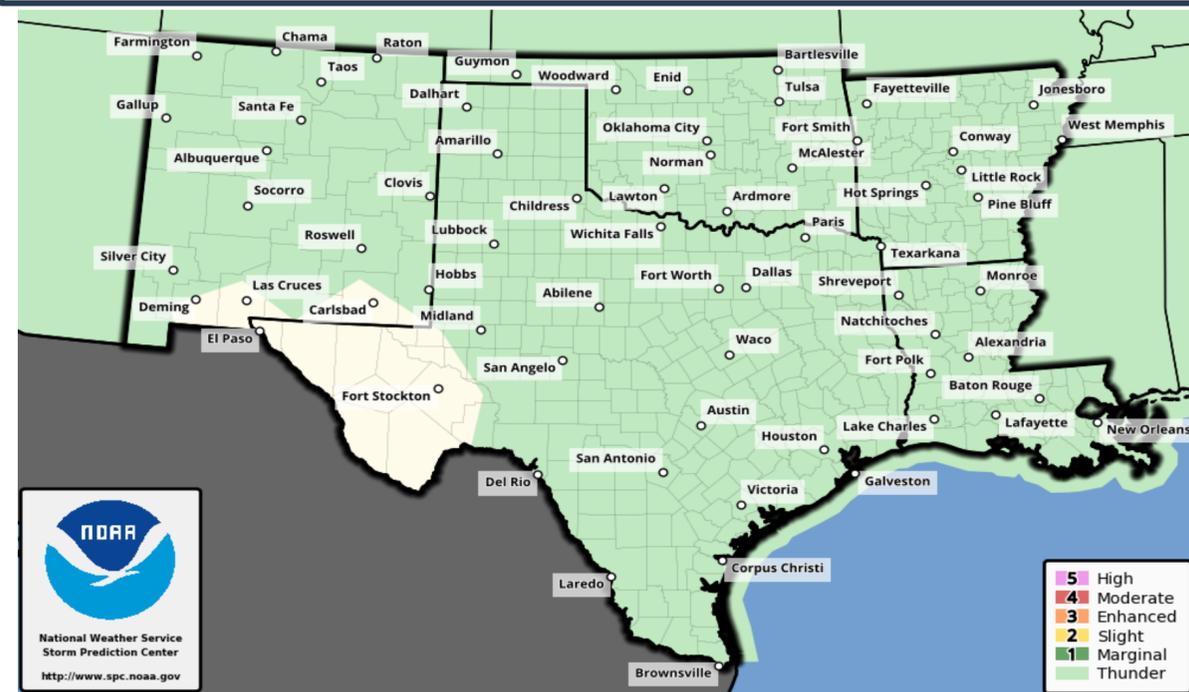
**Marginal risk of heavy rainfall and flash flooding across SE TX into Central and Southern LA.**

Weather Valid 8am EDT Mon Jul 27 2020 to 8am EDT Tue Jul 28 2020  
Fronts Valid 8am EDT Mon Jul 27 2020  
Issued 4:40 AM EDT Sat, Jul 25, 2020  
DOC/NOAA/NWS/NCEP/Weather Prediction Center  
Prepared by Snell with WPC/SPC/NHC forecasts.

**24-Hour Day 3 QPF**  
Valid 12Z Mon Jul 27 2020  
Thru 12Z Tue Jul 28 2020  
Issued: 0850Z Sat Jul 25 2020

## Severe Weather Outlook

## Excessive Rainfall Outlook



**Day 3 Excessive Rainfall Outlook**  
Valid 12Z Mon Jul 27 2020  
Thru 12Z Tue Jul 28 2020  
Issued: 0822Z Sat Jul 25 2020  
Forecaster: HAYES  
DOC/NOAA/NWS/NCEP/WPC

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

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

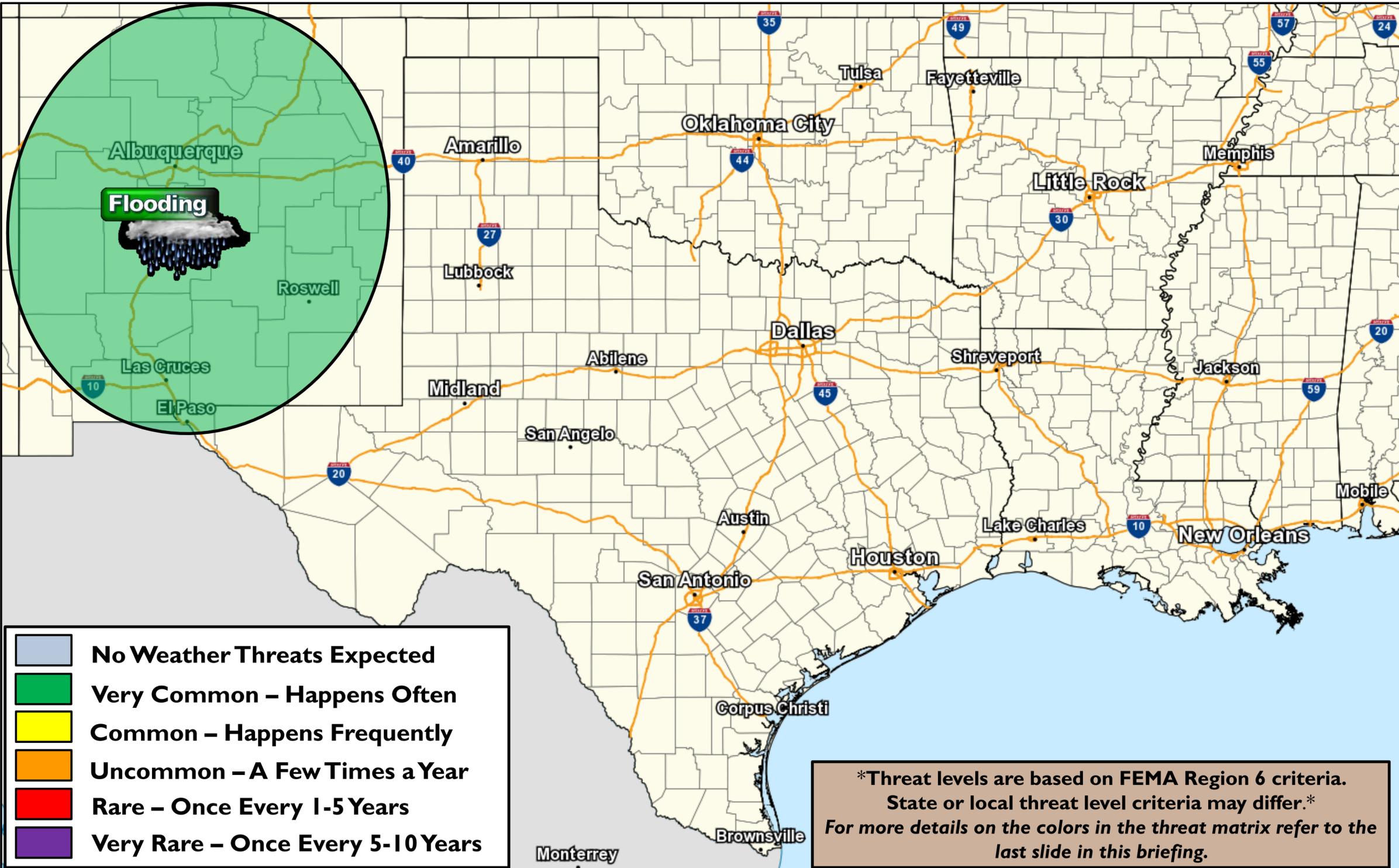
# Days 4-5 Weather Hazards

Tuesday - Wednesday



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Isolated heavy rain/flash flooding possible over NM.

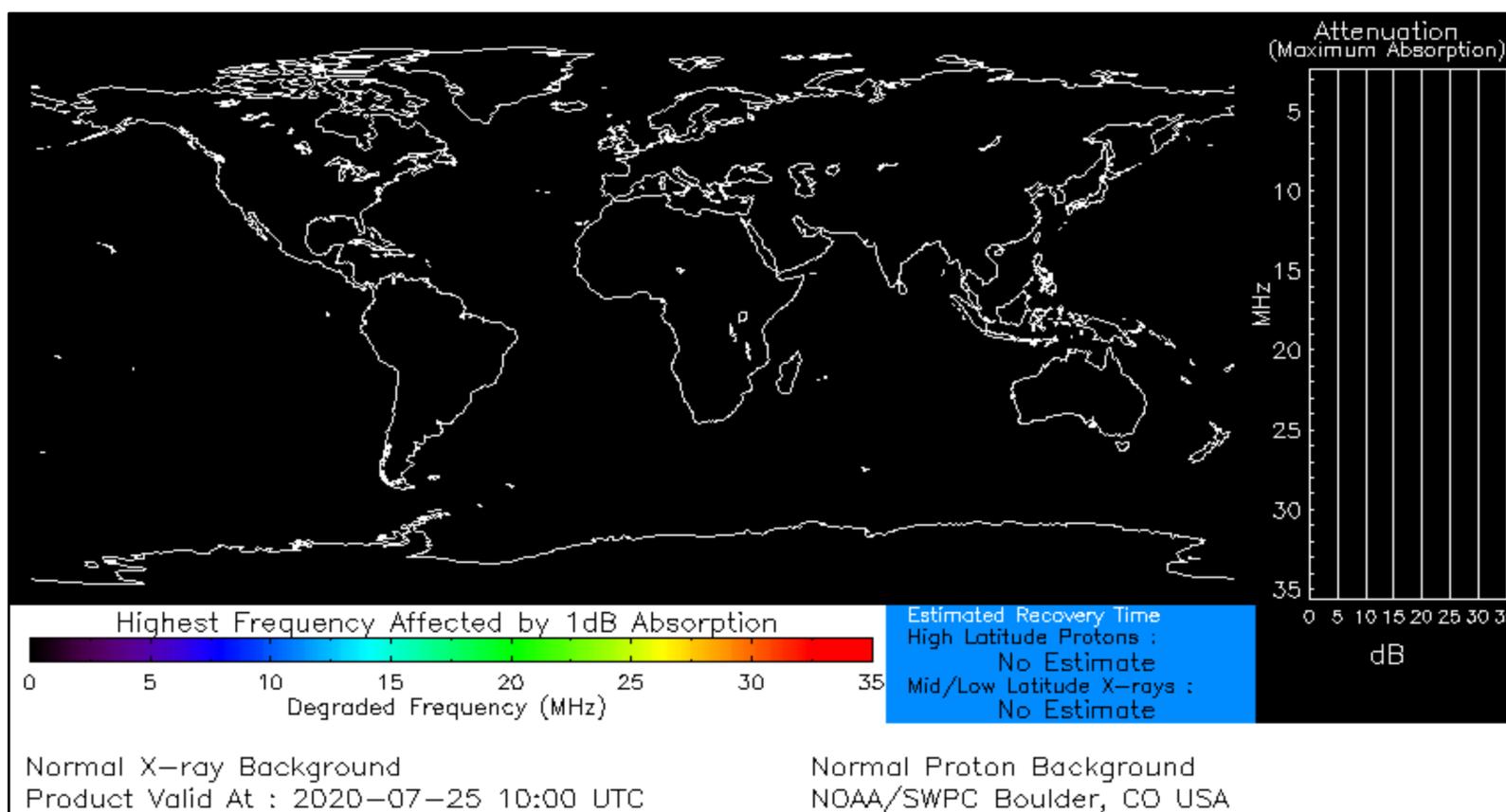


# Space Weather 3-Day Forecast



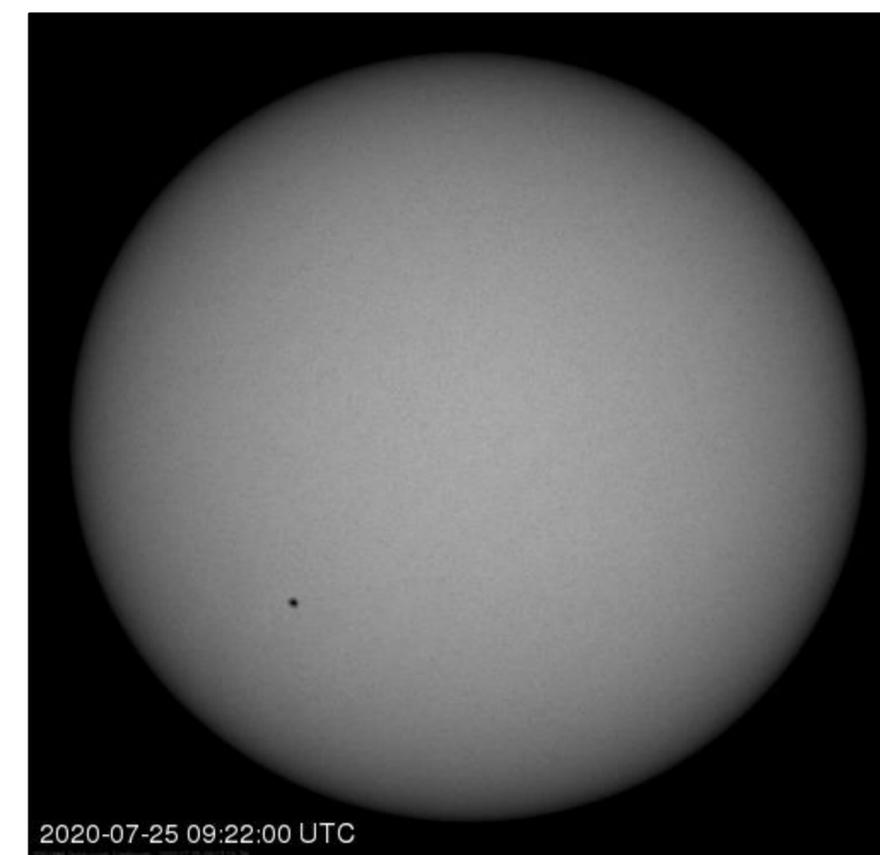
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	<b>Saturday</b>	<b>Sunday</b>	<b>Monday</b>
<b>Geomagnetic Storms</b>	<b>Unsettled to Active (Max Kp = 4)</b>	<b>Quiet (Max Kp = 2)</b>	<b>Quiet to Unsettled (Max Kp = 3)</b>
<b>Solar Radiation Storm (S1-S5)</b>	1%	1%	1%
<b>Radio Blackout (R1-R2)</b>	1%	1%	1%
<b>Radio Blackout (R3-R5)</b>	1%	1%	1%



[Click here for a Description of the Space Weather Storm Scales](#)

[Click here for the Latest 3-Day Space Weather Forecast Text](#)





**For more information, please contact:**

**National Weather Service**  
Southern Region Headquarters  
Regional Operations Center  
Fort Worth, TX

Phone: (682) 703-3747

E-mail: [sr-srh.roc@noaa.gov](mailto:sr-srh.roc@noaa.gov)

Web: <http://www.weather.gov/srh>



## Weather "Threat" Matrix

Color	Definition	Criteria	Example(s)
Green	<p style="text-align: center;"><b>Very Common</b></p> <p>Safety: Rarely a Direct Threat to Life and Property Impact Potential: Typically Results in Little Inconvenience to Daily Routines</p>	<p>Severe: Marginal Risk from SPC Flooding: Minor flooding expected over localized areas Tropical: None Fire Weather: No Watches/Warnings, fuel moisture above 10% or green up active</p>	<ul style="list-style-type: none"> <li>Thunderstorms expected over LA this afternoon; a few may produce winds to knock down a few trees</li> <li>Something that happens almost every day in a particular season such as <u>seabreeze</u> storms in coastal TX</li> </ul>
Yellow	<p style="text-align: center;"><b>Somewhat Common – Happens Frequently</b></p> <p>Safety: Rarely a Direct Threat to Life and Property Impact Potential: Typically Results in Some Inconvenience to Daily Life</p>	<p>Severe: Slight Risk from SPC Flooding: Nuisance flooded expected for a widespread area, or Minor flooding expected over isolated areas Tropical: A weak tropical wave expected to move towards or near any coastline Fire Weather: Red Flag Watches/Warnings and/or SPC outlines enhanced or critical fire outlook</p>	<ul style="list-style-type: none"> <li>2-3 inches of rainfall expected over central AR today and tonight; some minor (brief) street flooding possible</li> <li>Scattered severe storms possible, one or two tornadoes expected, along with reports of strong winds/wind damage and ~1" hail</li> </ul>
Orange	<p style="text-align: center;"><b>Uncommon – A Few Times a Year</b></p> <p>Safety: Often Threatening to Life and Property, Some Damage Unavoidable Impact Potential: Typically Results in Minor Disruption to Daily Life</p>	<p>Severe: Enhanced Risk from SPC Flooding: Minor flooding expected over a widespread area (including urban locations), or Moderate flooding expected over isolated areas Tropical: A Tropical Storm expected to move towards or near any coastline Fire: Critical fire outlook for more than 2 consecutive days, Warnings for 2 or more consecutive days, D3-D4 drought conditions</p>	<ul style="list-style-type: none"> <li>A snow/sleet mix is expected to move through or near the DFW area tomorrow morning; travel impacts likely</li> <li>Numerous severe storms possible, a few tornadoes possible along with several reports of wind damage along with damaging hail</li> <li>Some large fires reported, burn bans advertised, critical conditions expected</li> </ul>
Red	<p style="text-align: center;"><b>Rare – Once every 1-5 Years</b></p> <p>Safety: Extensive Property Damage Likely, Life Saving Actions Also will be Needed Impact Potential: Will likely result in Large Disruption to Daily Life</p>	<p>Severe: Moderate Risk from SPC Flooding: Moderate flooding expected over a widespread area (including urban locations) Tropical: A Hurricane expected to move towards or near any coastline Fire: Large areas of critical conditions for 2 or more days, Warnings for 3 or more days, Severe to extreme drought</p>	<ul style="list-style-type: none"> <li>A Category 1 hurricane will be moving towards the NW Gulf in the next few days</li> <li>Widespread severe storms likely, strong tornadoes, widespread wind damage, and destructive hail</li> <li>Large fires ongoing throughout the area with critical fire weather conditions expected to continue</li> </ul>
Purple	<p style="text-align: center;"><b>Very Rare – Once Every 5-10 Years</b></p> <p>Safety: Property Damage Unavoidable, Immediate Action to Save Life will be Needed Impact Potential: Typically Results in Long-Lived Widespread Major Disruption to Daily Life</p>	<p>Severe: High Risk from SPC Flooding: Major flooding expected over a widespread area (including urban locations) Tropical: A Major Hurricane (Cat3 or greater) expected to move towards or near any coastline Fire: Large area of critical conditions for 2 or more days, Warnings for 3 or more days, Long term (months) of severe to extreme drought</p>	<ul style="list-style-type: none"> <li>A Category 4 hurricane is headed towards the SE LA; major storm surge, flooding and damaging winds anticipated to begin tomorrow</li> <li>Widespread severe storms expected, tornado outbreak probable with long-lived, very widespread and particularly intense storms</li> </ul>

**Criteria for the color codes in this briefing is to the left, please provide any feedback to [sr-srh.roc@noaa.gov](mailto:sr-srh.roc@noaa.gov).**