



# HURRICANE DELTA BRIEFING

10:30 AM CT

Thursday, Oct 8th

*Prepared by: WFO Houston/Galveston*

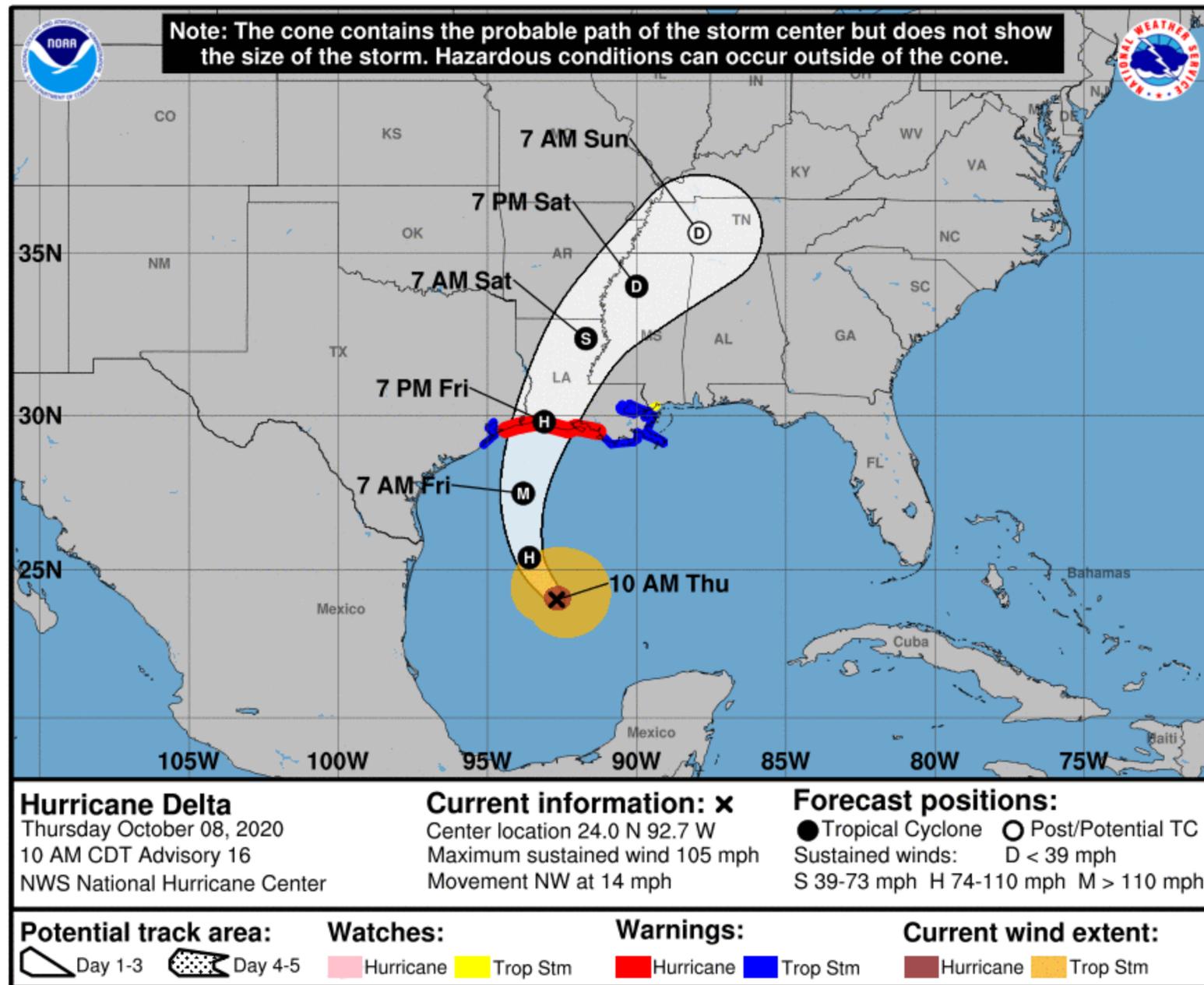
What has changed: Slight shift west in the track. SW Louisiana landfall likely. Tropical Storm and Coastal Flood Watches have been upgraded to warnings. Hurricane Warning shifted west to High Island.

# Situation Overview

## Hurricane Delta



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- Delta expected to restrengthen to a major hurricane (Cat 3) over next 24 hours. Storm tracking NW. Gradual turn to the NNW, N, then NNE expected over next 30 hours.
- Forecast track has shifted west slightly. SW Louisiana landfall is likely but hurricane force winds could extend into Texas. Hurricane Warning shifted west to High Island.
- Greatest impact for our area will likely be high surf, beach erosion, coastal flooding along Gulf facing beaches. TS force winds expected in the TS Warning area.
- TS and Hurricane Warnings shown (blue and red line segments respectively). TS warning from San Luis Pass to High Island. Coastal Flood Warnings/Advisories for the Texas Gulf Coast and Galveston Bay.

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

# HAZARDS FOR SOUTHEAST TEXAS

Weather Forecast Office  
**Houston/Galveston, TX**



Hurricane Delta will produce dangerous conditions through late Friday

Issued October 8, 2020 5:13 AM CT

## TROPICAL STORM WARNING

Potential Hazards:

- Tropical storm force winds
- Locally heavy rainfall

## COASTAL FLOOD WARNING

Potential Impacts:

- Significant coastal flooding possible. Some shoreline erosion may occur.

## COASTAL FLOOD ADVISORY

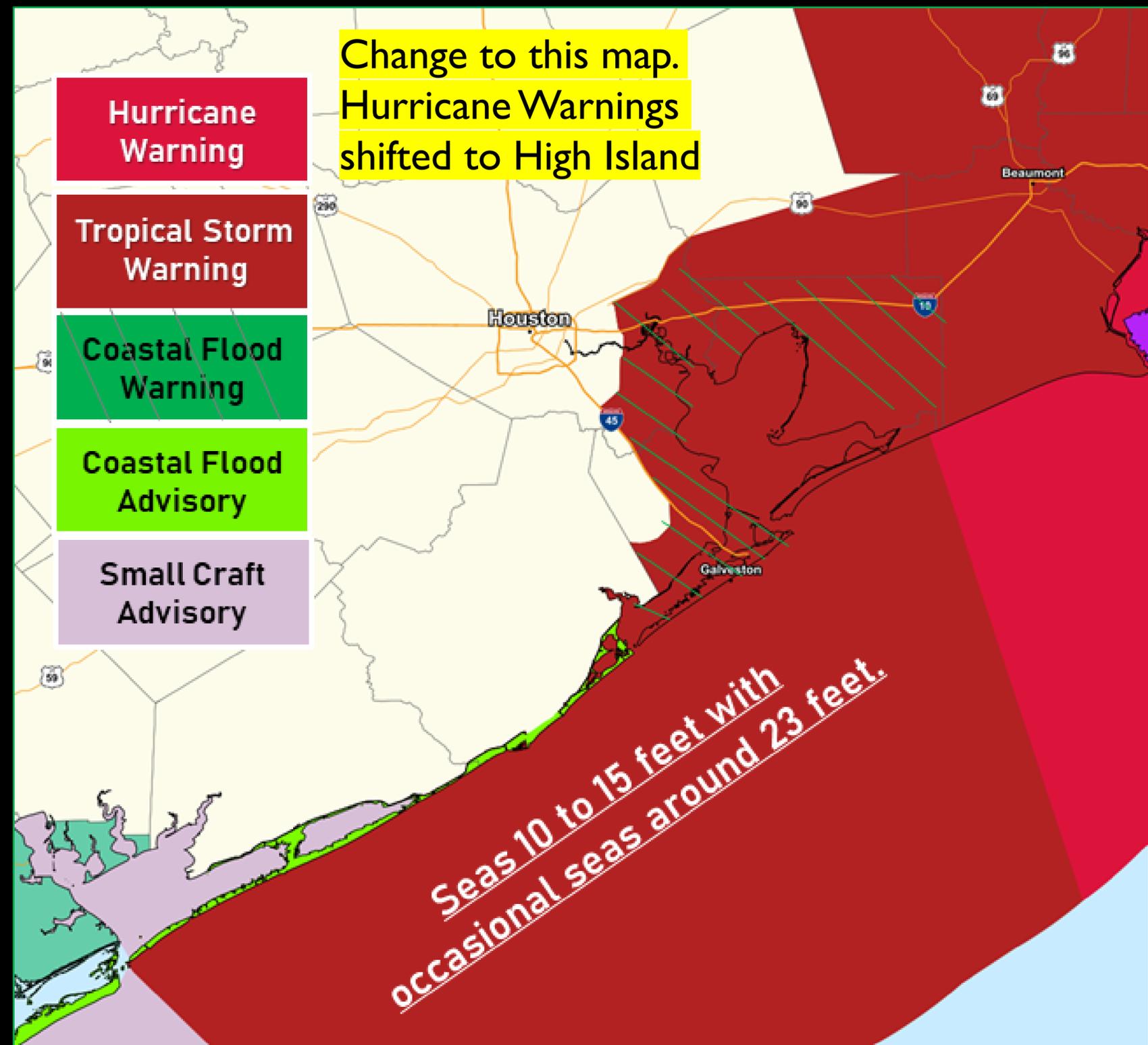
Potential Impacts:

- Minor coastal flooding possible.

## SMALL CRAFT ADVISORY

Potential Impacts:

- North winds 15 to 25kts with gusts up to 30kts.

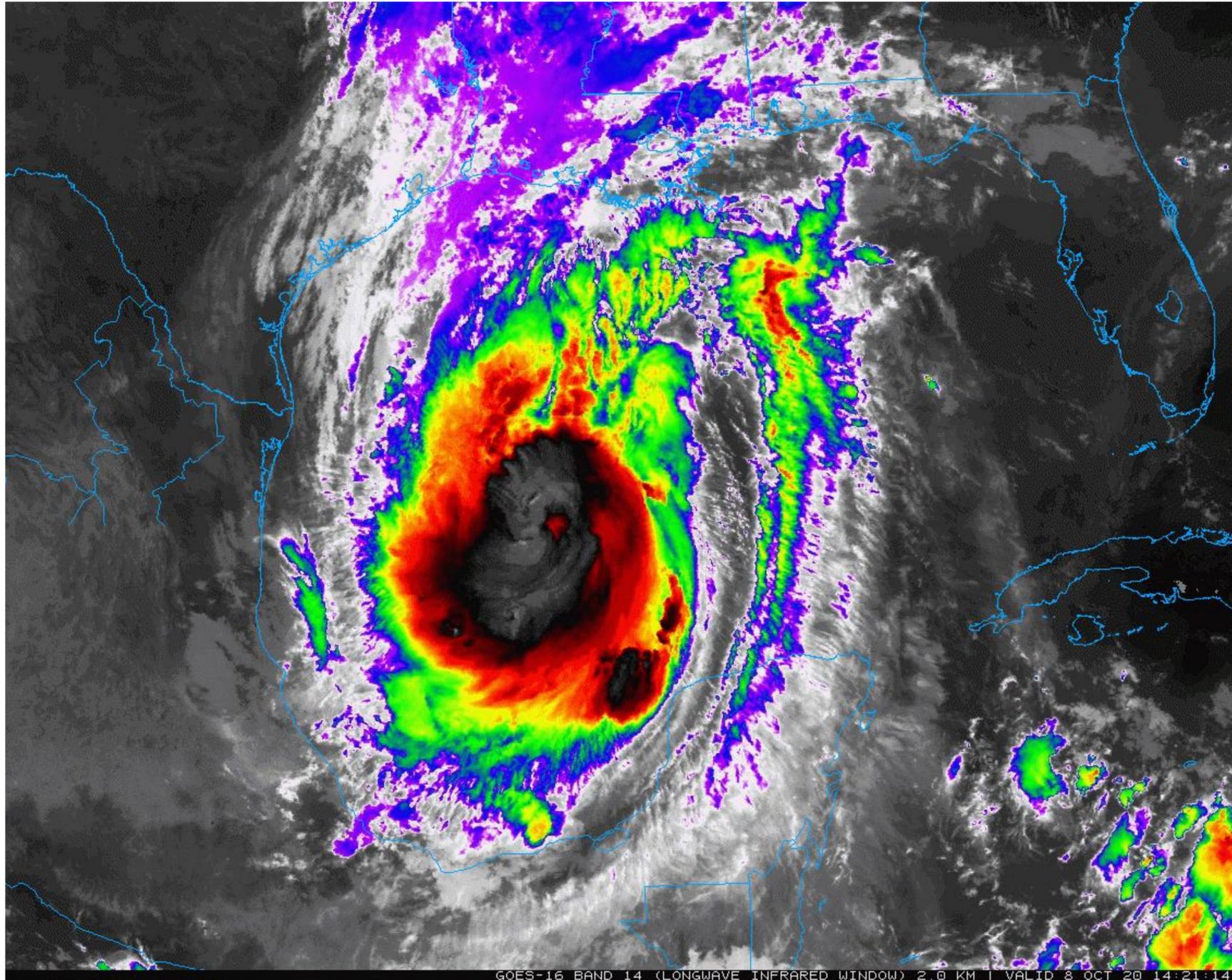


# Current Satellite View

Hurricane Delta



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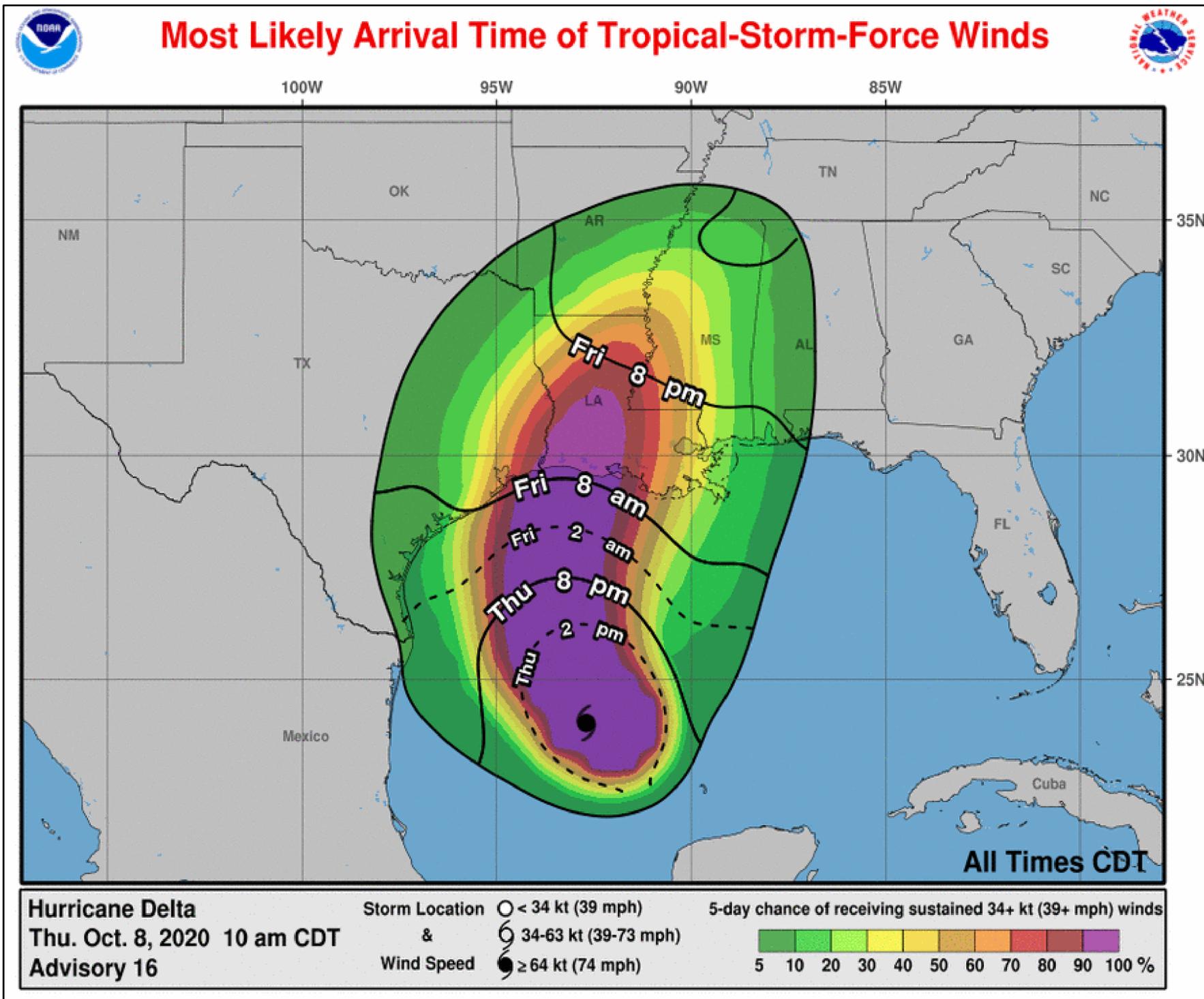
- Hurricane Delta over Gulf of Mexico. Well defined eye appearing over past hour or so.
- May be strengthening.

# Most Likely Time of Arrival

Hurricane Delta



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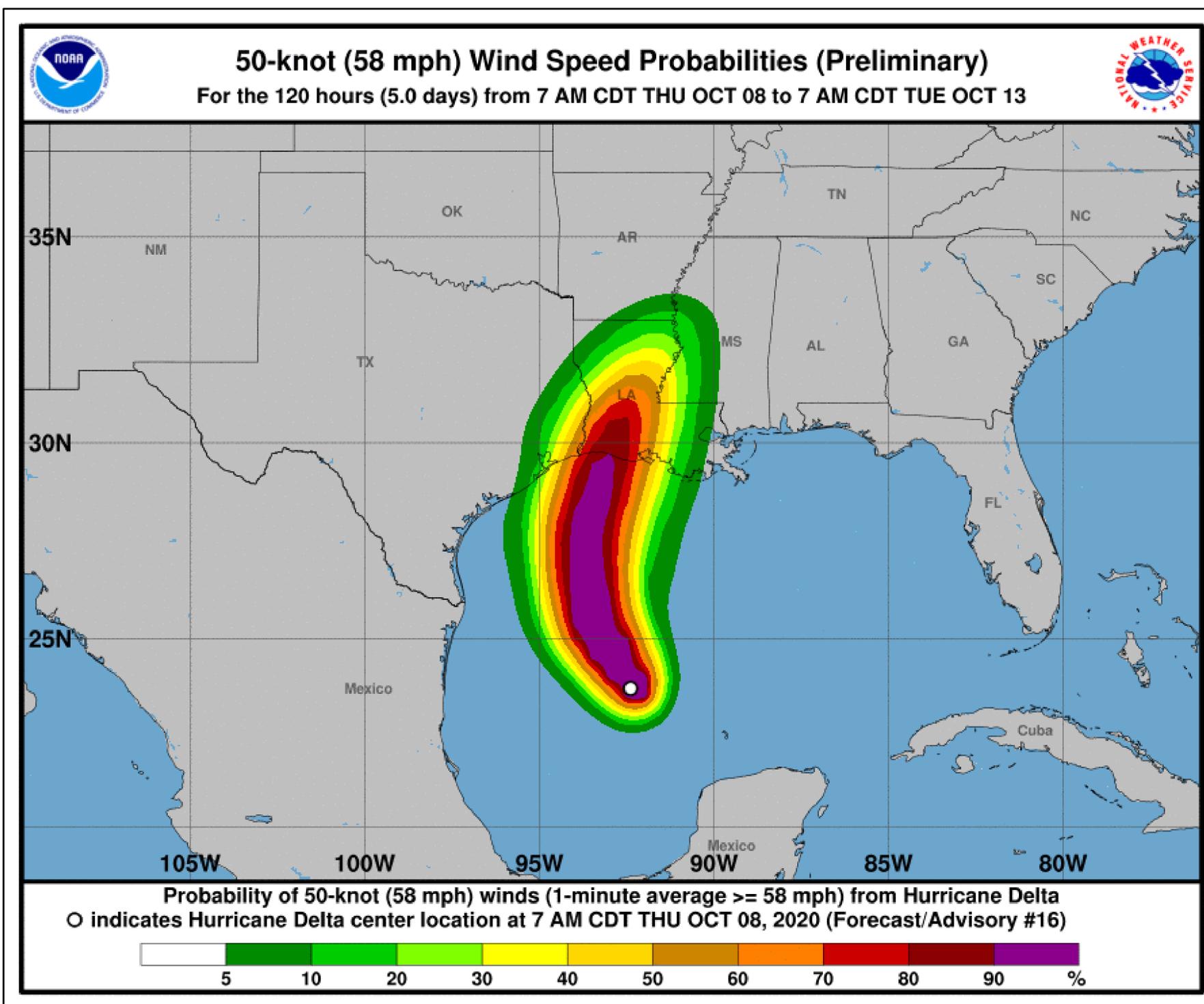
- Very little change but higher probabilities far E TX.
- Highest probabilities SW LA and far E TX but fairly high (>50%) down to San Luis Pass. >70% Galveston on east.
- The most likely time of arrival of tropical storm force winds Friday morning for the Louisiana and Upper Texas coast.

# 50kt Wind Speed Probabilities

Hurricane Delta



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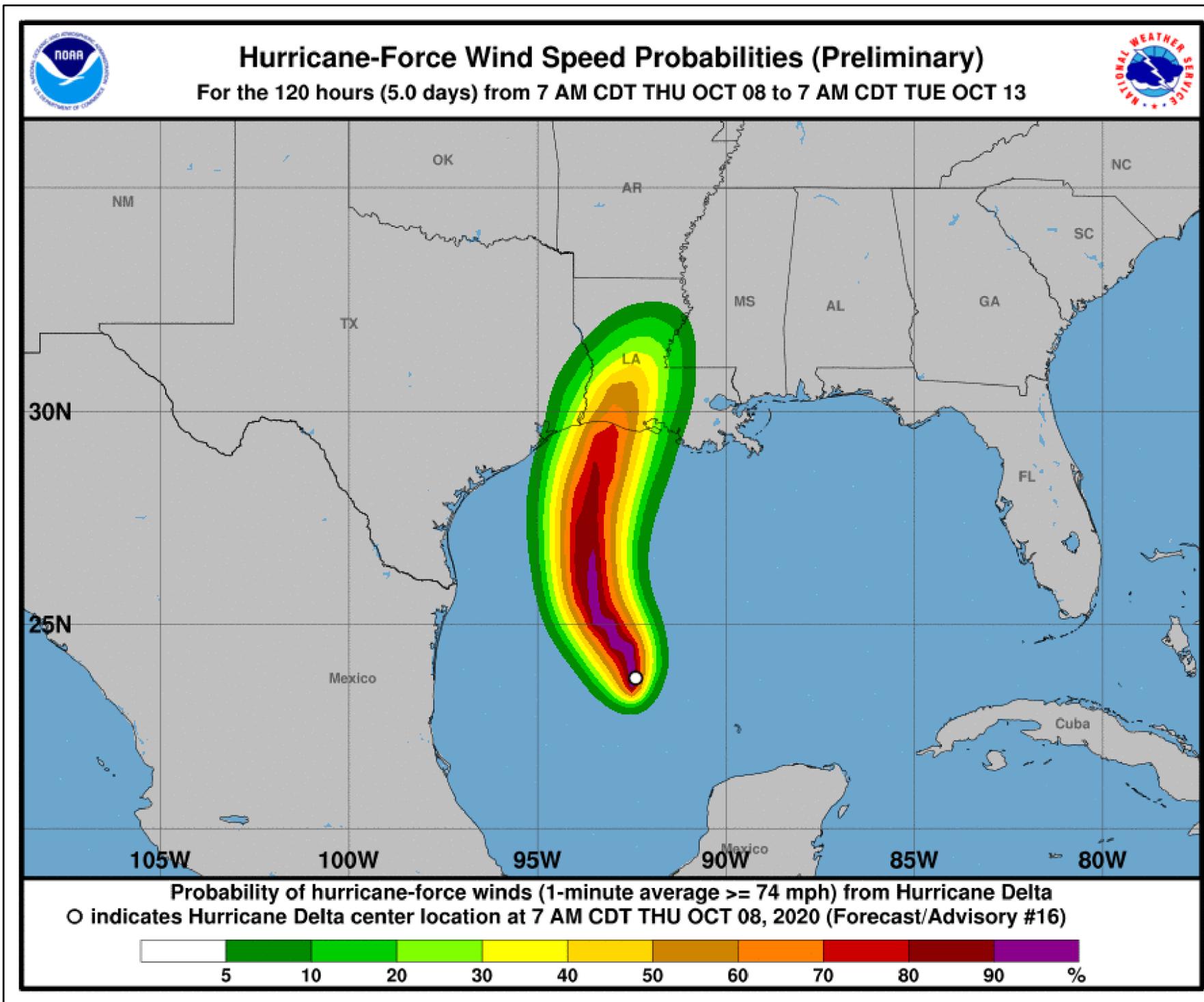
- Just a slight shift west from yesterday. Some higher values into Bolivar Peninsula and Chambers County (>30 percent).
- Implies a greater chance of high end TS force winds (<50 mph) over those eastern zones.
- Focus for highest winds (greater than 58 mph sustained) more across Louisiana, far E Texas.

# Hurricane Wind Speed Probabilities

Hurricane Delta



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- Just a slight shift west from yesterday 10 to 20 pct probabilities into Bolivar.
- Hurricane Warnings now extended to High Island and points east.
- Hurricane force wind threat remains mostly over Louisiana.
- 30 to 40 percent Sabine Pass, Beaumont, Port Arthur area.

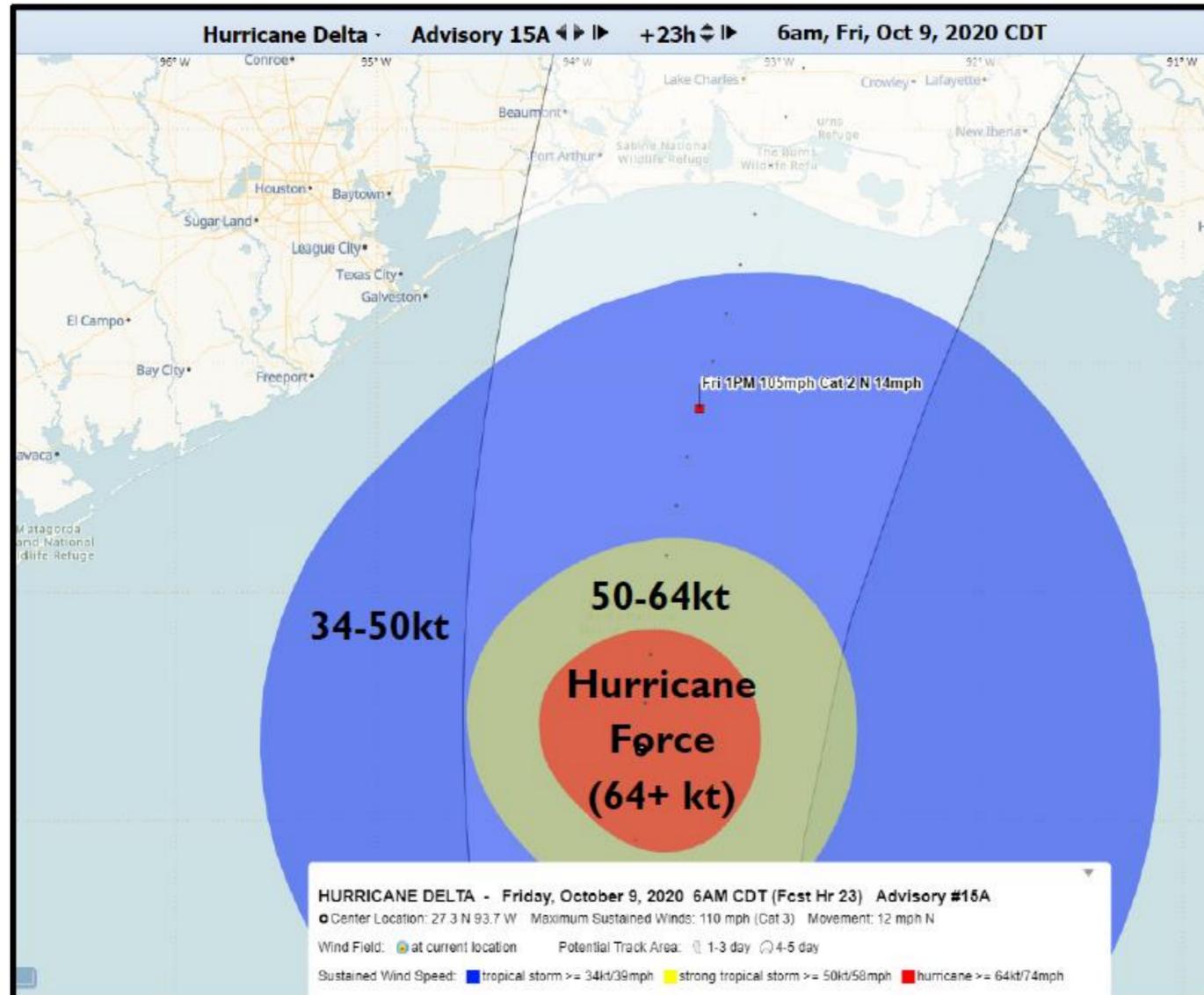
# Wind Timing

Hurricane Delta

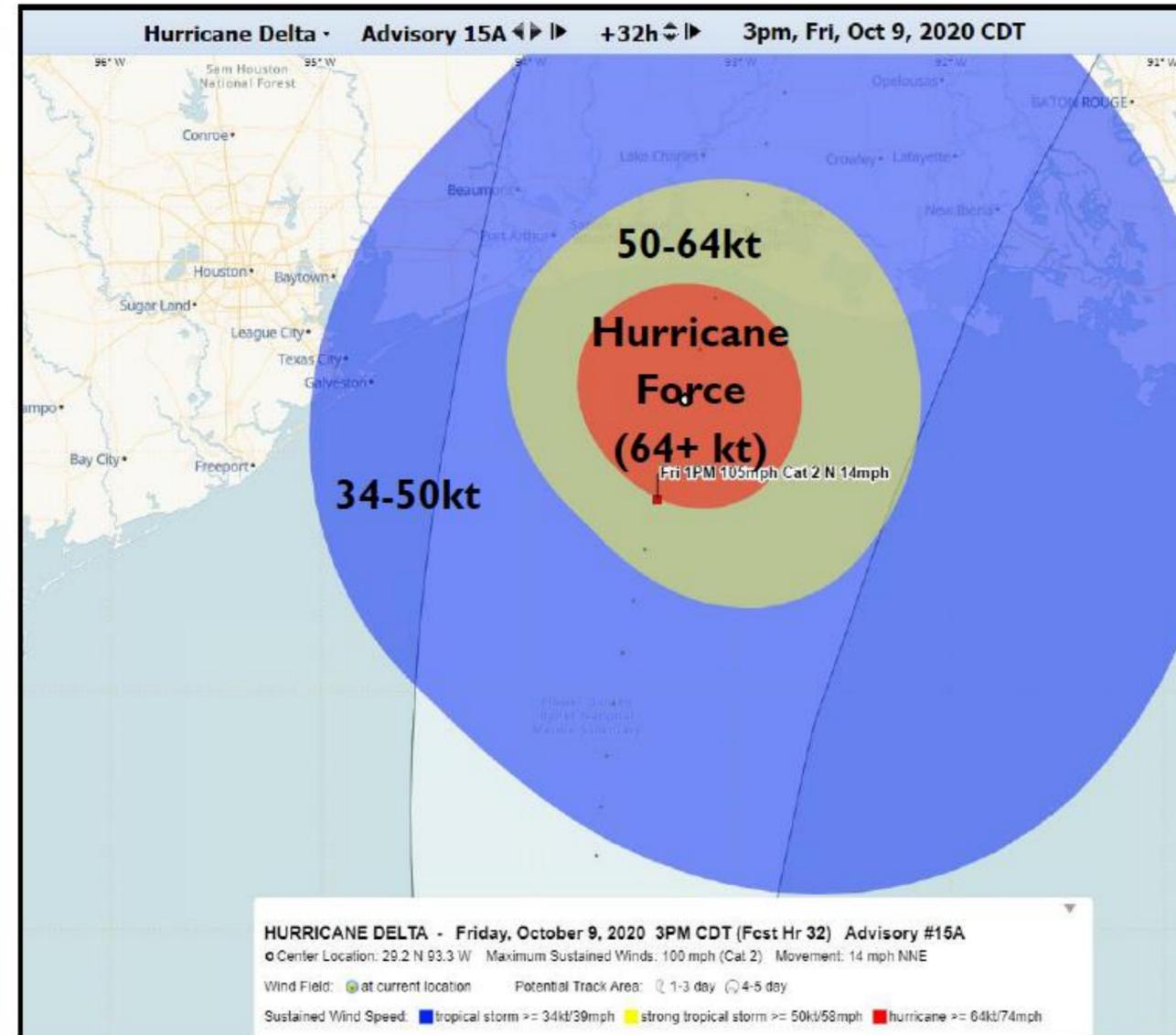


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Hurrevac plot gives a general timing of the wind field. Don't focus on exact details but see some of the higher winds brushing the area tomorrow afternoon.



6am Fri



3pm Fri

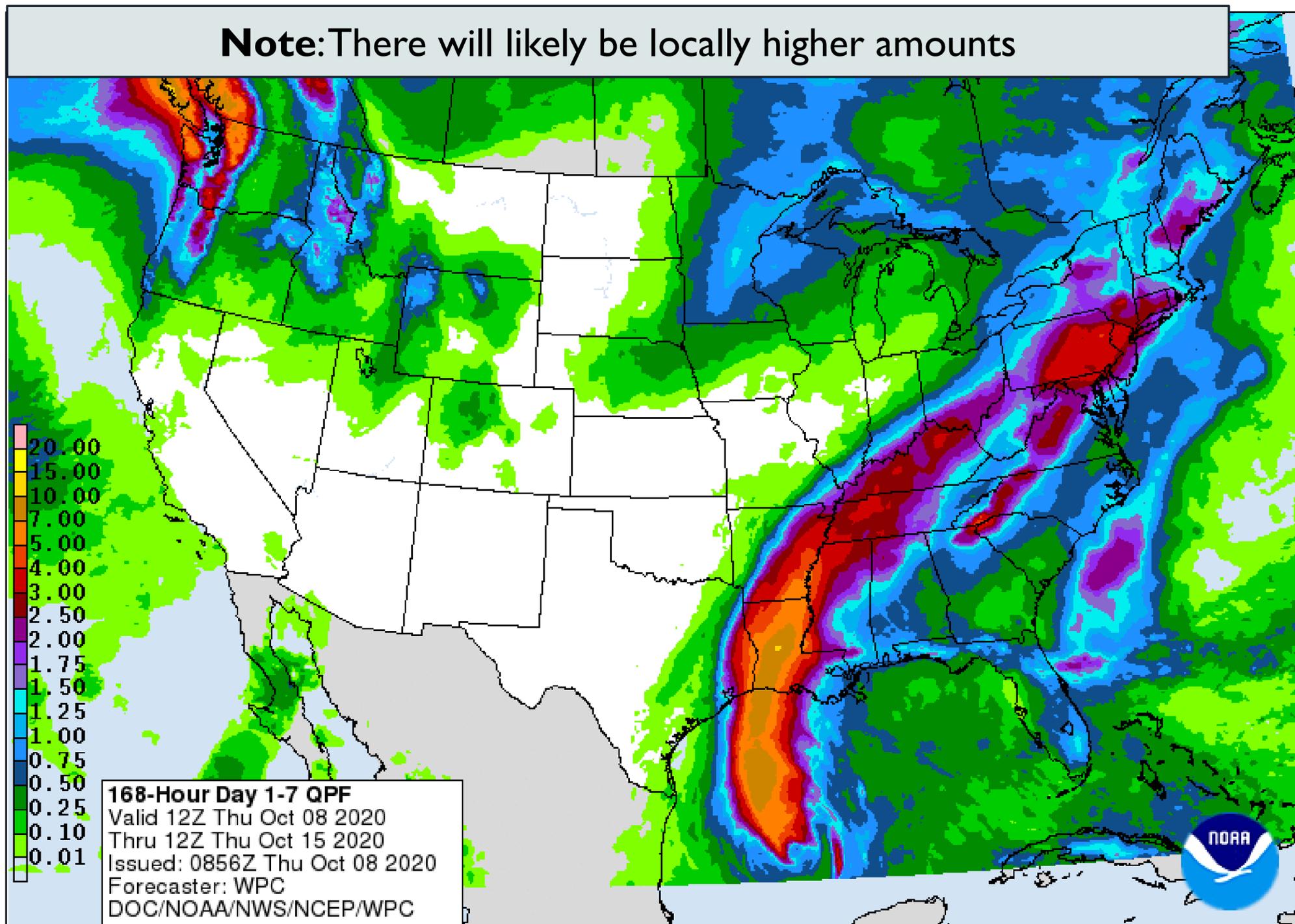
# Expected Storm Total Rainfall

Hurricane Delta



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**Note:** There will likely be locally higher amounts



Not expected to bring much rain to local area unless there is a track shift toward the left.

Flooding not a significant concern at this time for Southeast Texas.

Far eastern areas (Bolivar, Chambers and Liberty Counties) may be on western edge of heavier rainfall.

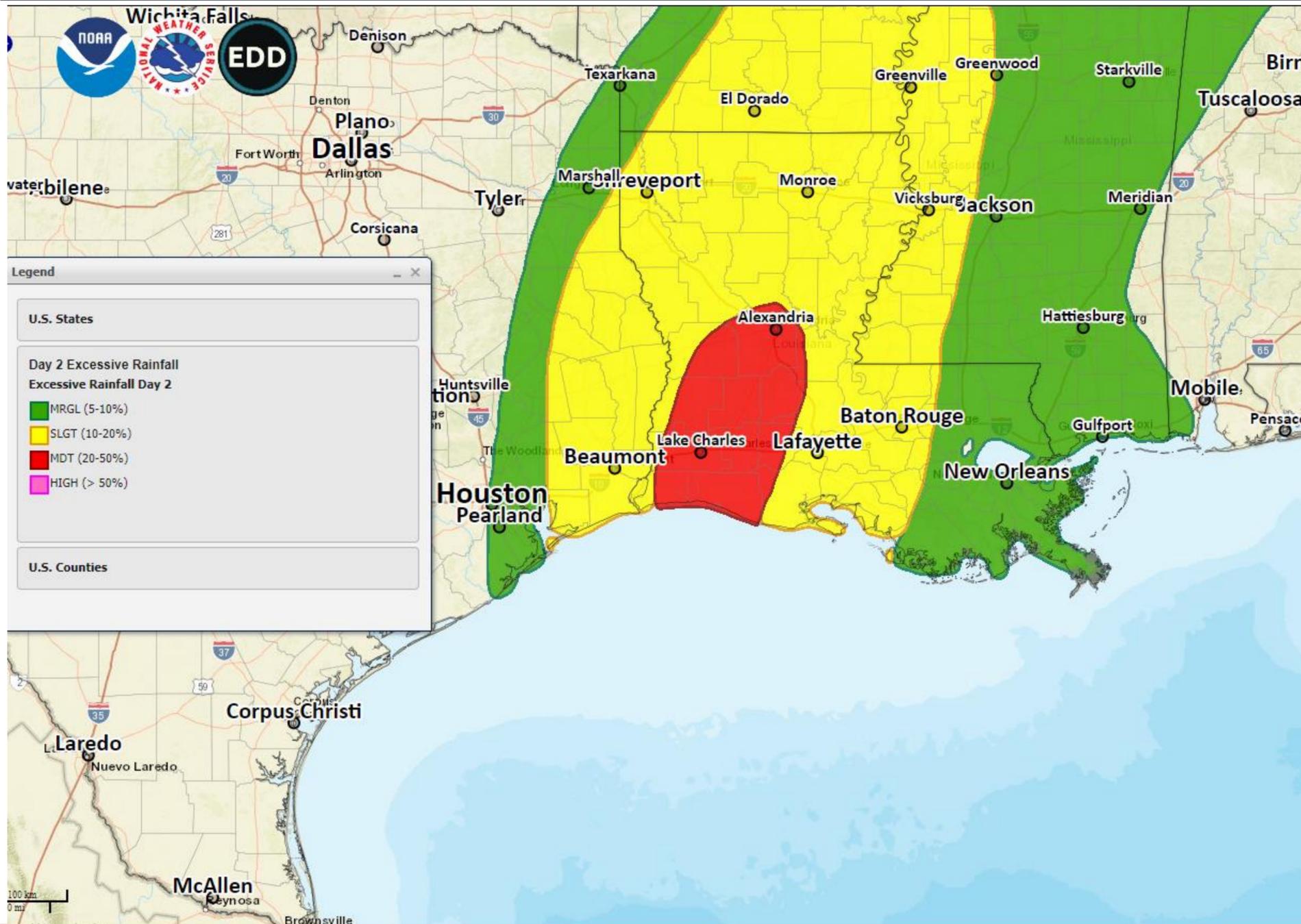
# Excessive Rainfall Outlook

Hurricane Delta



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## Excessive Rainfall Outlook Valid



- Slight risk of flash flooding now into Chambers and Liberty Counties, eastern Polk
- Marginal risk just west of there.
- Heaviest rain should stay farther east but those eastern counties could get clipped on the west side of storm.

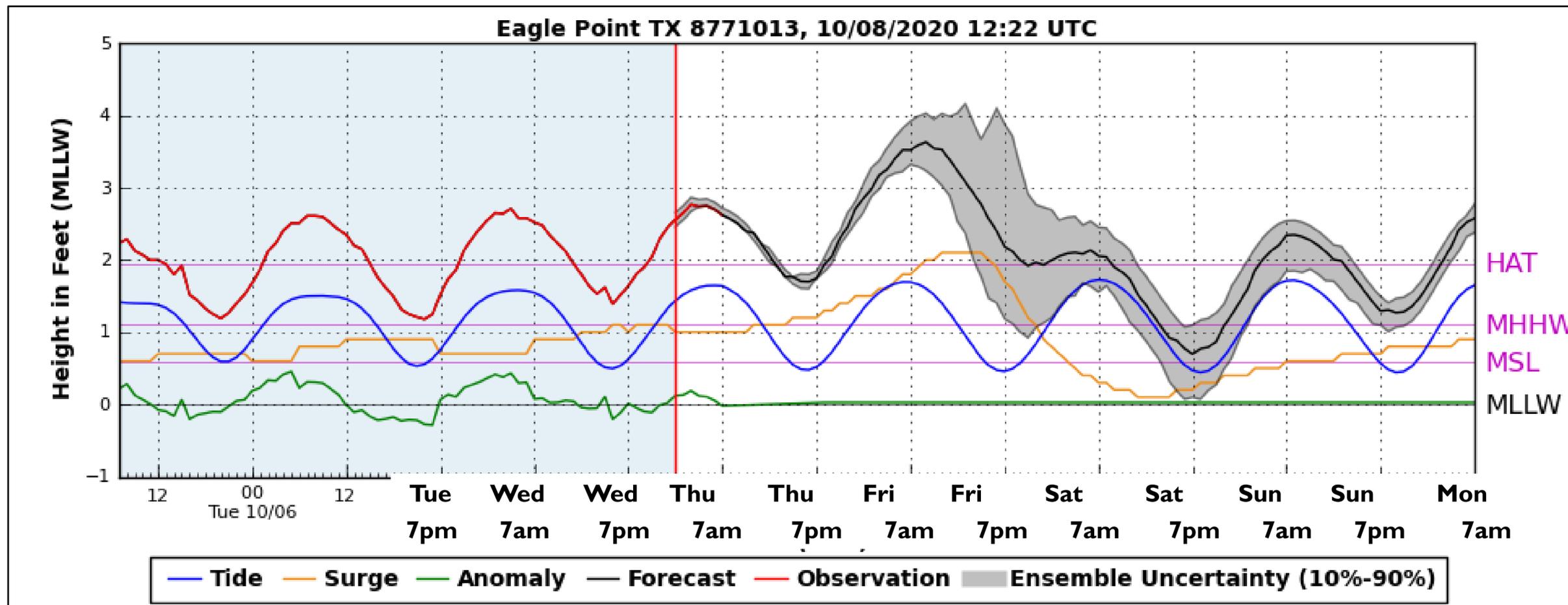
# Model Forecast Water Levels: Eagle Point



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Hurricane Delta



**Key**  
 Blue line = what you'd find in tide tables  
 Red line = what was actually observed.  
 Black line = what is forecast by the model.  
 Shaded gray = range of uncertainty

LOCATION	3.7 FEET	4.0 FEET	4.5 FEET	5.0 FEET
Kemah/Seabrook/ Clear Lake/ Texas City	Parts of Toddville Road in Seabrook begins flooding.	Toddville Road flooding in Seabrook. Lower portions of Red Bluff Road between Bay Area Blvd and TX-146 begin flooding	Parts of Toddville Road closed	Water 3 feet deep at some locations and into some homes along Toddville Road.

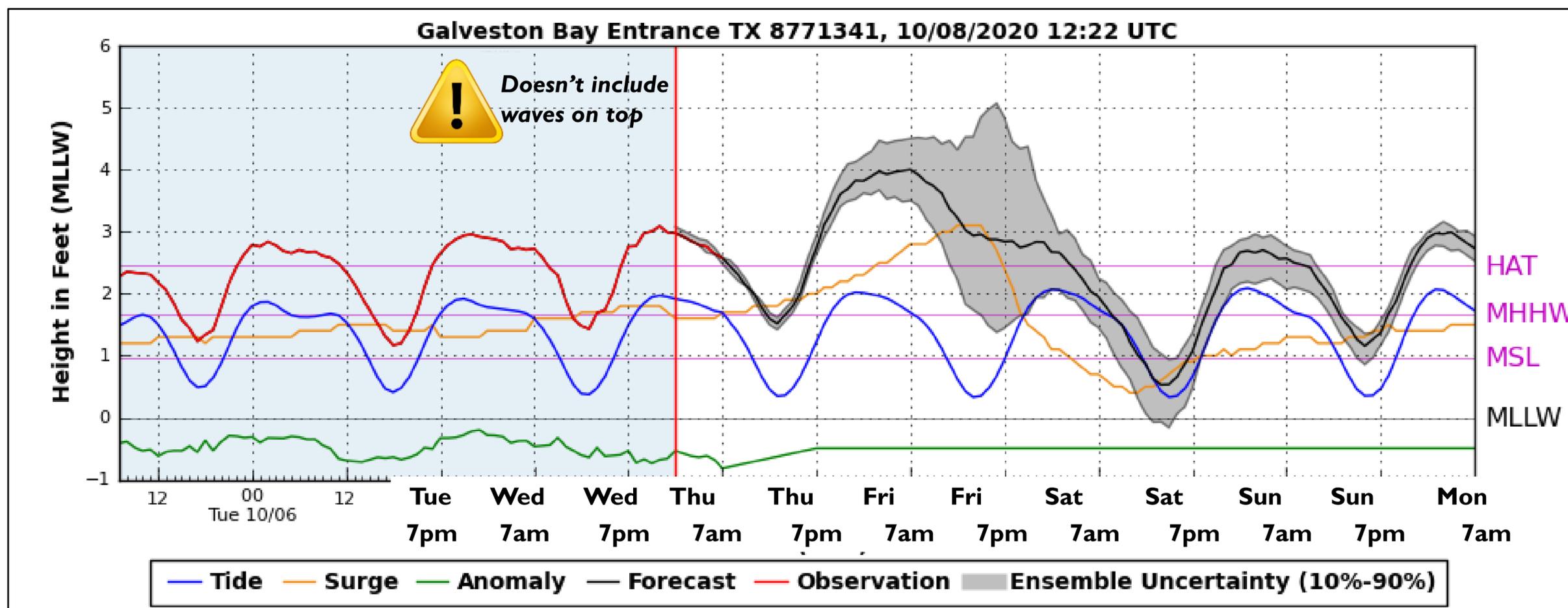
# Model Forecast Water Levels: Galveston



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## Hurricane Delta



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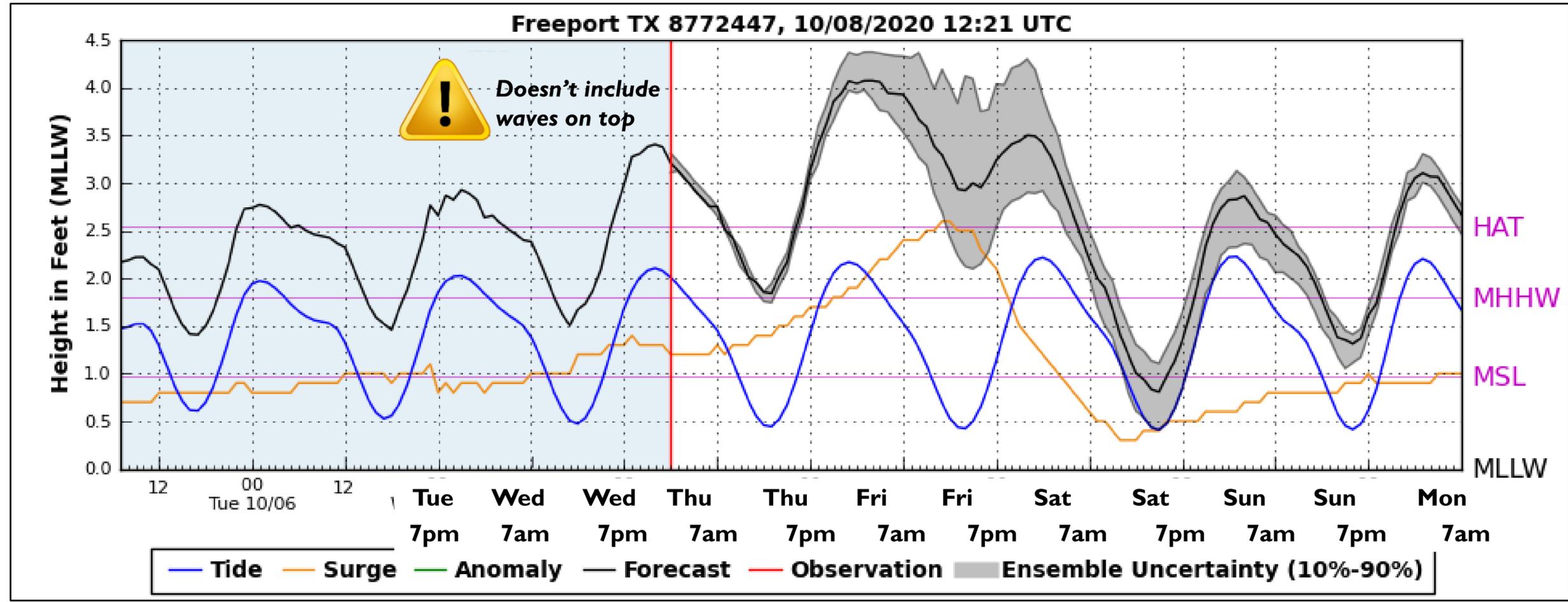
LOCATION	3.5 FEET	3.7 FEET	4.0 FEET	4.5 FEET	5.0 FEET	5.5 FEET	6.0 FEET	6.5 FEET	7.5 FEET
Galveston and Bolivar Peninsula	Problem areas near Crystal Beach. Water may approach parts of Seawall. Lifeguard stands may need to be moved out of threat zones	Water to the road at Highway 87 @ HWY 124 on the Bolivar Peninsula.	Low lying streets begin flooding especially on the West End of Galveston. Portions of Highway 6 between I-45 and Hitchcock begin to flood. Ferry service to and from Bolivar Peninsula may cease between 4-4.5ft. Highway 87 @ HWY 124 on the Bolivar Peninsula may be impassable.	Parts of Highway 187 become impassable. Ferry service to and from Bolivar Peninsula may cease between 4-4.5ft.					Bayou Vista canal flooding overtops bulkheads (Claudette 2003).
Jamaica Beach (Bayside)			Lowest streets begin flooding	Flooding moves farther inland	Flooding moves farther inland	Half of the village becomes inundated		3 to 4 feet of water on streets and into homes	
Chambers County			West Bayshore Rd between Anahuac and Oak Island begins to flood. Highway 124 between High Island and FM-1985 begins to flood.	FM-562 northeast of Smith Point begins flooding.				FM-1985 between FM-562 and Highway 124 begins flooding.	

# Model Forecast Water Levels: Freeport



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## Hurricane Delta



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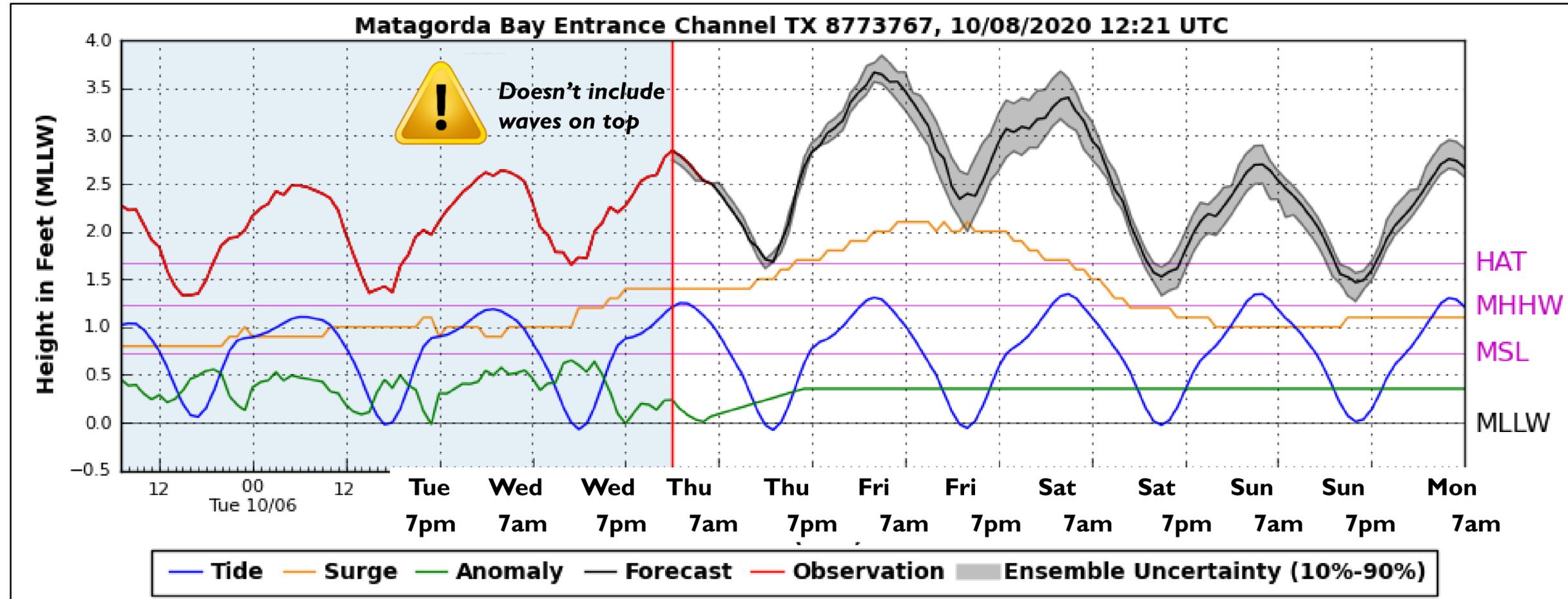
LOCATION	3.7 FEET	4.0 FEET	4.5 FEET	5.0 FEET	5.5 FEET	6.0 FEET	6.5 FEET
Surfside	At 3.5 feet, with wave periods of greater than 10 seconds, expect wave runup to flood beaches and overtop dunes and road embankment flooding over the Blue Water Highway.	Water on Beach Drive and near Blue Water Highway.			Water approaches dunes. Portions of FM-523 between Highway 332 and FM-2004 begin to flood. FM-2918 near the mouth of the San Bernard River begins to flood.	Streets near the beach begin to flood. Lowest lying portions of Highway 288 near Freeport begin to flood. FM-2918 near the mouth of the San Bernard River begins to flood.	San Luis Pass bridge may close depending on Highway 257 road conditions in Brazoria County.
Matagorda area					Water on FM-2031	Bridge is closed	

# Model Forecast Water Levels: Matagorda



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## Hurricane Delta



**Key**

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- Black line = what is forecast by the model.
- Shaded gray = range of uncertainty

LOCATION	3.7 FEET	4.0 FEET	4.5 FEET	5.0 FEET	5.5 FEET	6.0 FEET	6.5 FEET
Surfside	At 3.5 feet, with wave periods of greater than 10 seconds, expect wave runup to flood beaches and overtop dunes and road embankment flooding over the Blue Water Highway.	Water on Beach Drive and near Blue Water Highway.			Water approaches dunes. Portions of FM-523 between Highway 332 and FM-2004 begin to flood. FM-2918 near the mouth of the San Bernard River begins to flood.	Streets near the beach begin to flood. Lowest lying portions of Highway 288 near Freeport begin to flood. FM-2918 near the mouth of the San Bernard River begins to flood.	San Luis Pass bridge may close depending on Highway 257 road conditions in Brazoria County.
Matagorda area					Water on FM-2031	Bridge is closed	

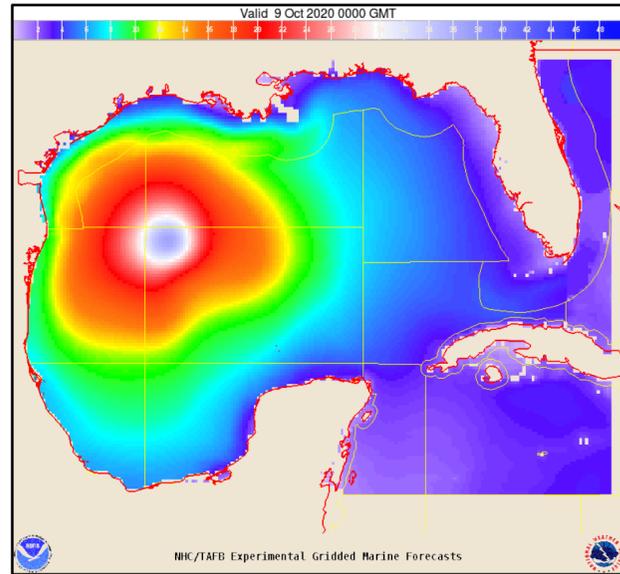
# Forecast Wave Heights



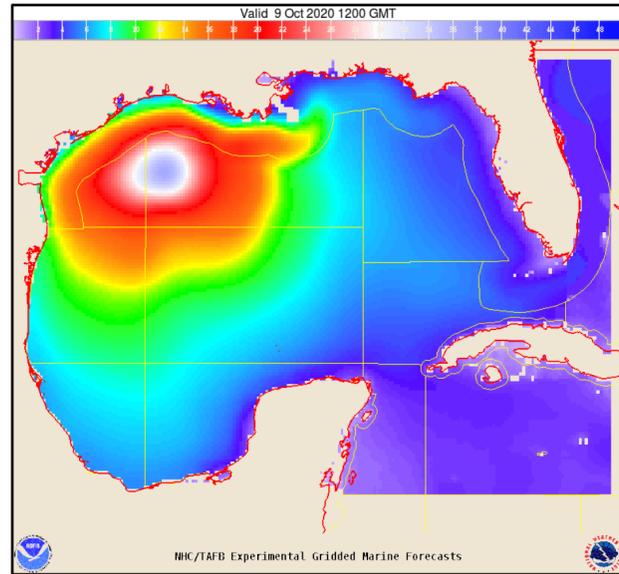
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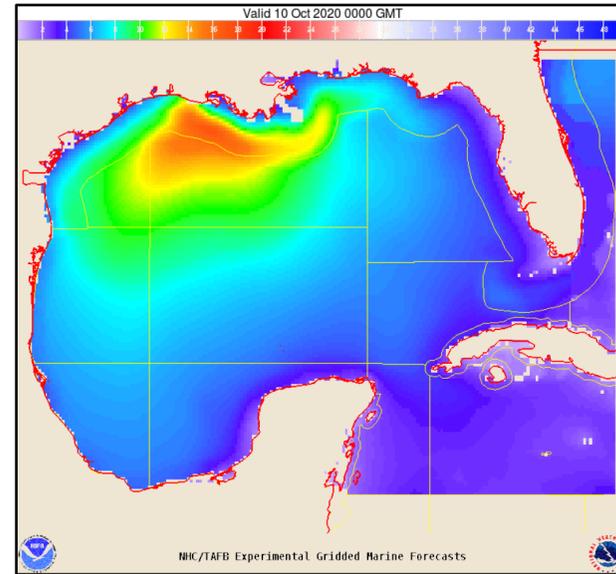
Large swell begins to fill in today



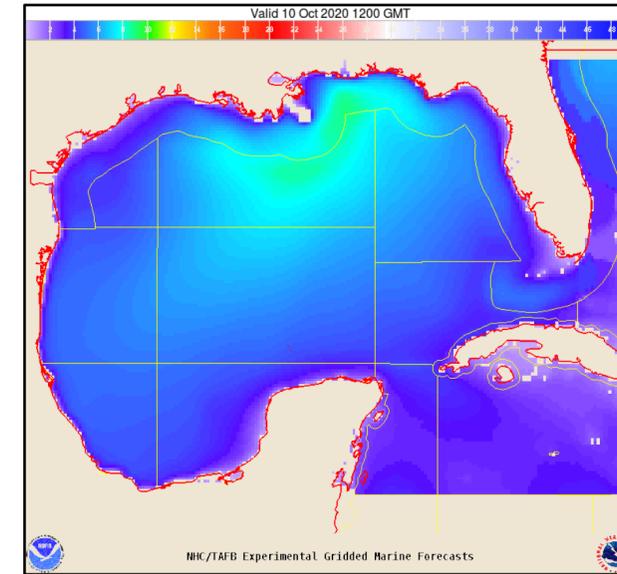
Thu am



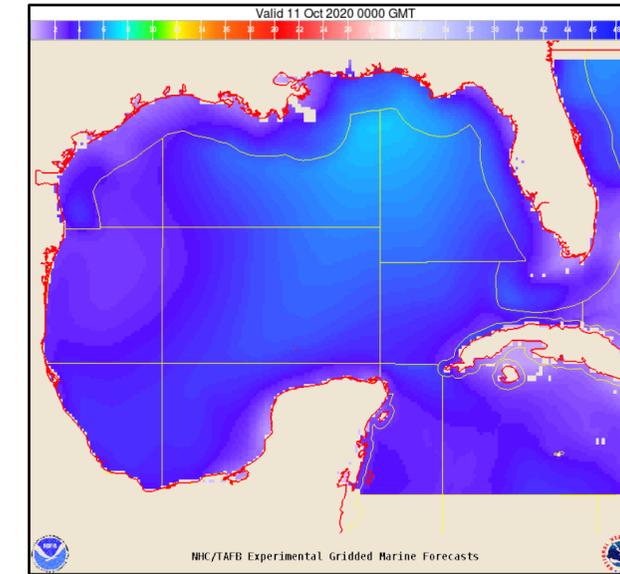
Thu pm



Fri am



Fri pm



Sat am



Wave model showing area of 30+ foot seas offshore. This wave energy will reach the Texas coast today and tonight. Expect high surf at the beaches, beach erosion and coastal flooding.

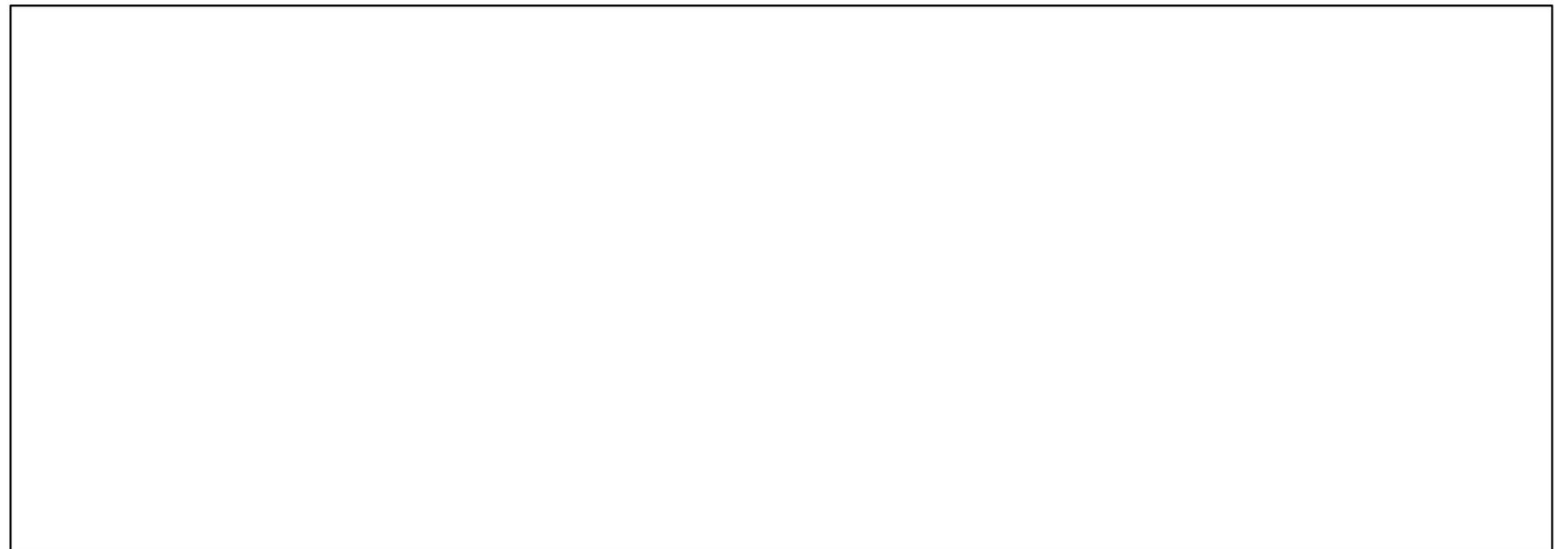
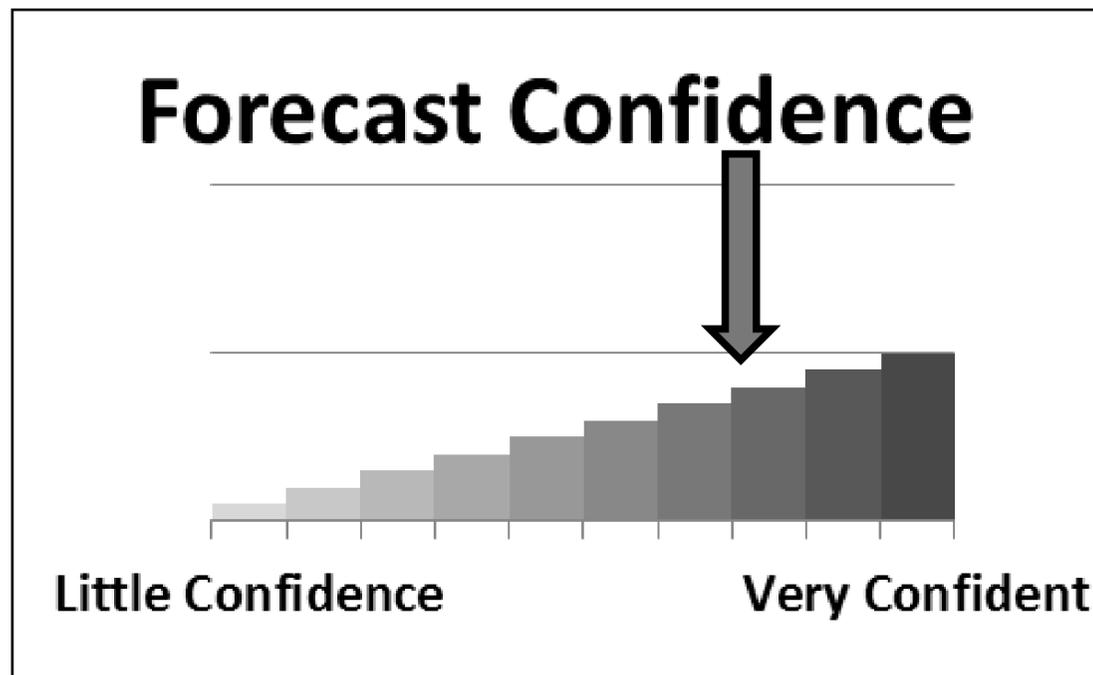
# Key Take-Aways



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## Hurricane Delta

- High surf, swells start reaching the Texas today. Elevated tides, minor to moderate coastal flooding Thursday night into Friday night. Surf and associated wave runup will add to the effective surge Gulf facing beaches.
- Tropical storm force winds likely in warning area starting late tonight and Friday. Possibility of greater than 50 mph winds eastern sections (Bolivar, Chambers).
- Slight risk of flash flooding far eastern zones, otherwise no real flood concern. No tornado concern at this time.
- Impacts are dependent on track, size and intensity of hurricane. Although confidence in track has increased, still some uncertainty in all these. Slight shift west would mean more significant impacts.





*The Next Advisory: Thursday 4:00 PM CDT*  
*Next scheduled webinar: Thursday 4:30 pm CDT*



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# Place Holder 2

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# Place Holder 3

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# Place Holder 10

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