



HURRICANE DELTA BRIEFING

10:30 AM CT

Tuesday, October 06, 2020

Prepared by: WFO Houston/Galveston

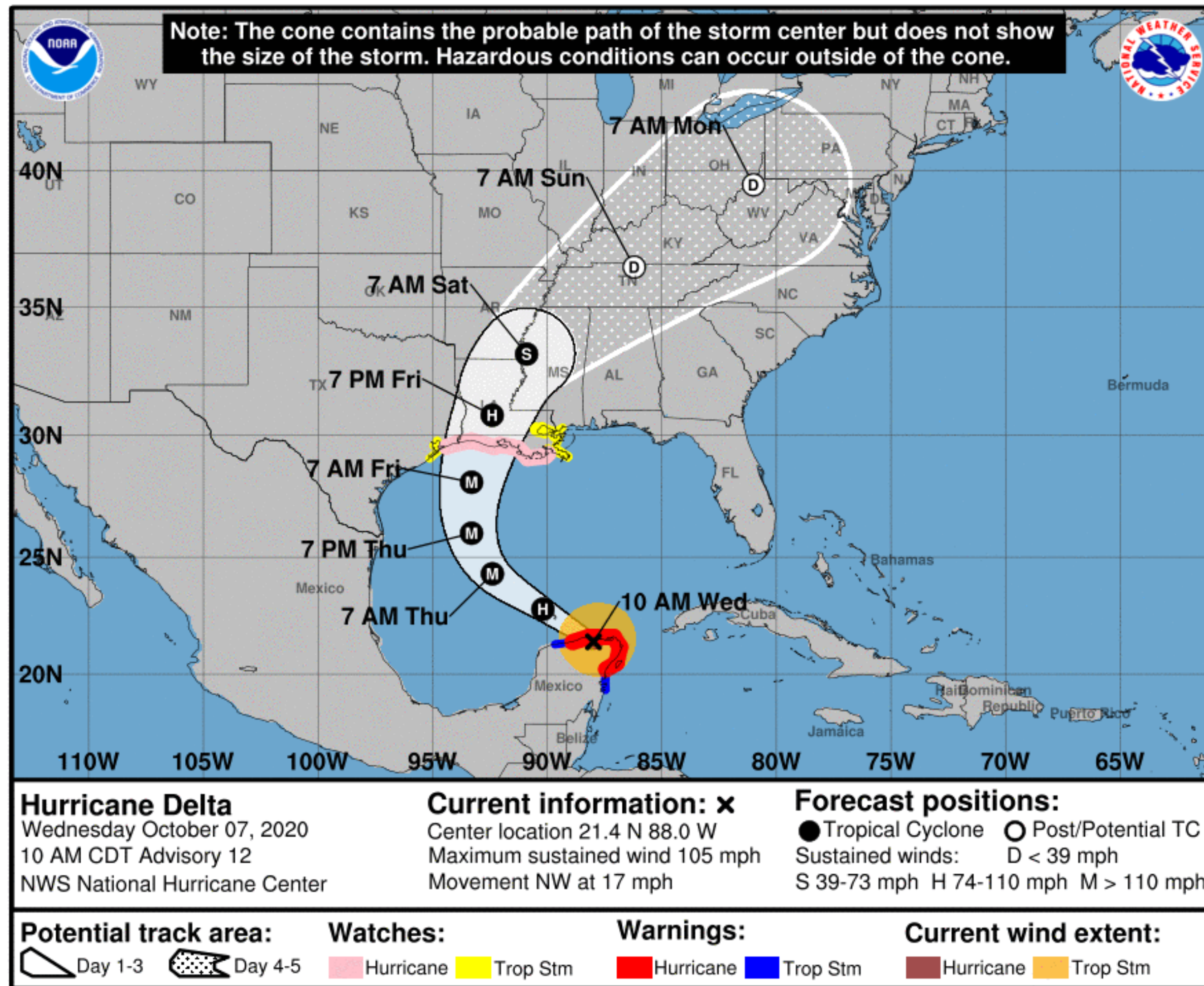
What has changed: Slight shift west in the track forecast. Tropical Storm Watches issued from San Luis Pass to High Island including Galveston Bay. Hurricane Watches from High Island to Grand Isle, LA. Impacts for SE TX same as briefed yesterday.

Situation Overview

Hurricane Delta



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- Hurricane Delta has weakened since yesterday, now a category 2. Expected to restrengthen to a major hurricane (Cat 3+) over next 24 hours.
- Will most likely make landfall along Louisiana coast Friday (a little sooner than briefed yesterday) although exact track and timing uncertain.
- Some of the models take center more on a left side of cone track bringing center close to TX border. Others closer to the center of cone track.
- Will bring elevated tides, high surf and possibly TS force winds to portions of the Upper TX coast. More severe impacts near and right of track.
- TS and Hurricane Watches shown (yellow and pink line segments respectively). TS watch from San Luis Pass to High Island.

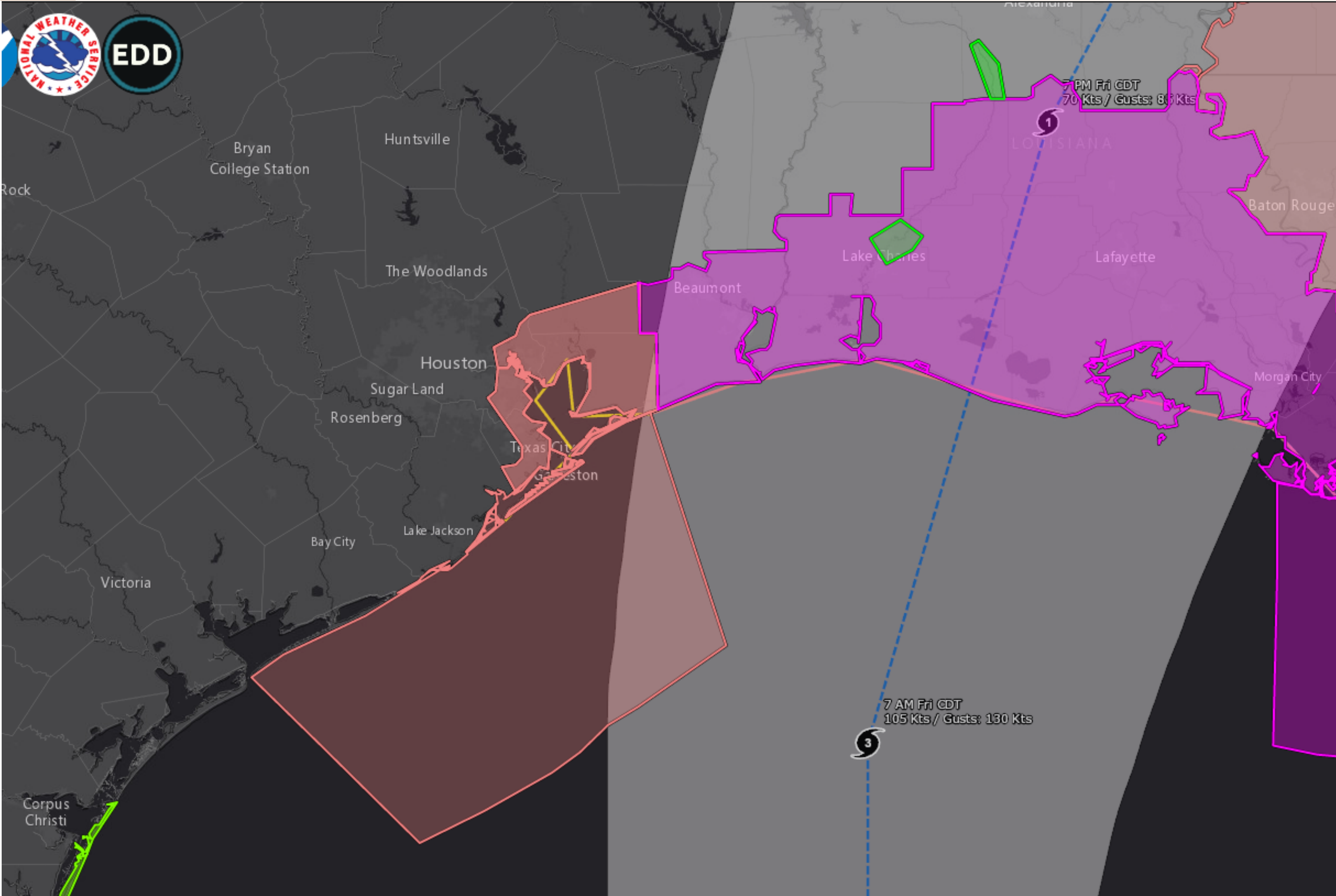
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Watches/Warnings

Hurricane Delta



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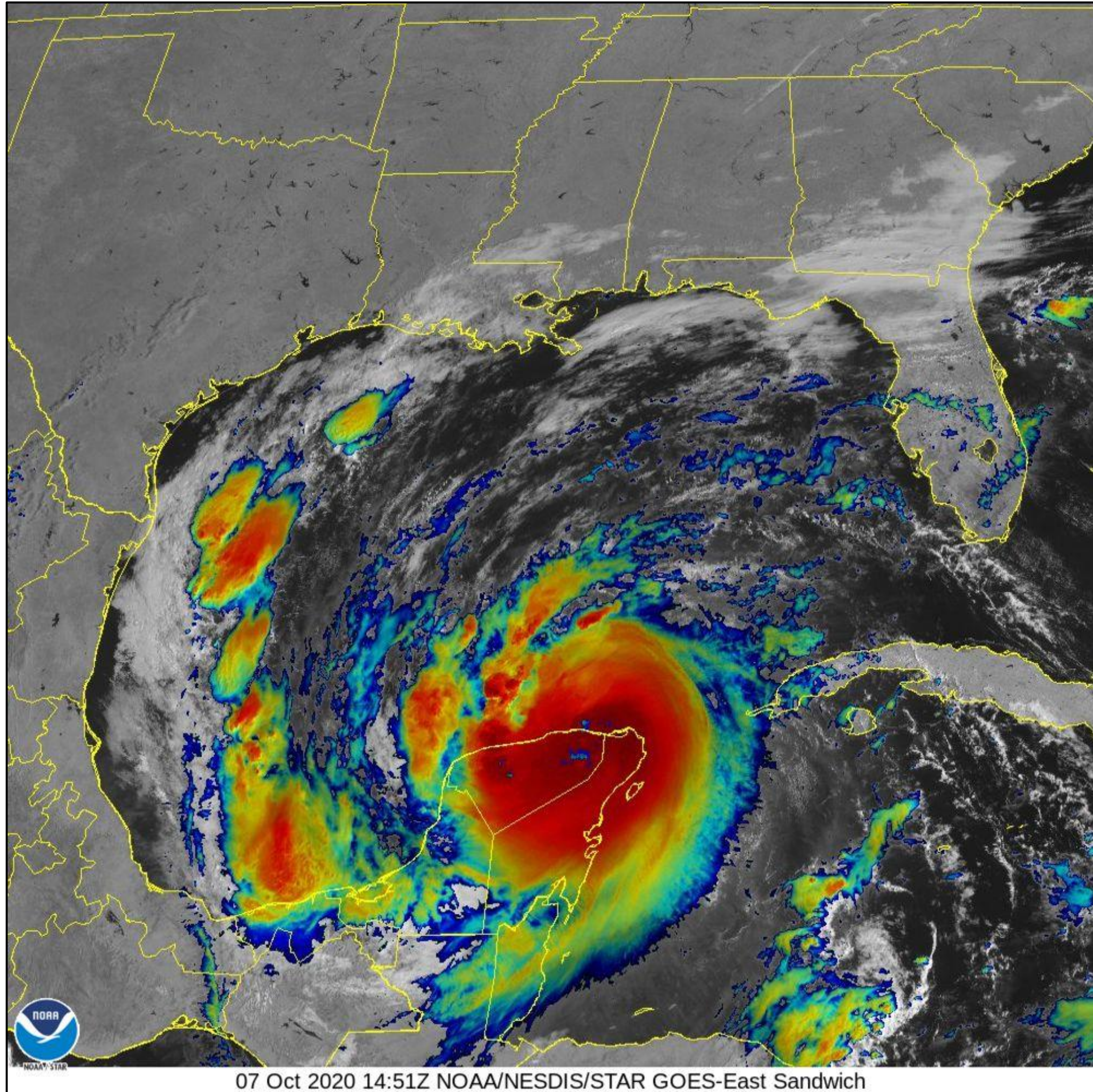
- Tropical Storm Watch for areas shown in orange.
- Coastal zones from San Luis Pass to High Island and adjacent coastal waters.
- Galveston Bay and adjacent coastal zones.

Current Satellite View

Hurricane Delta



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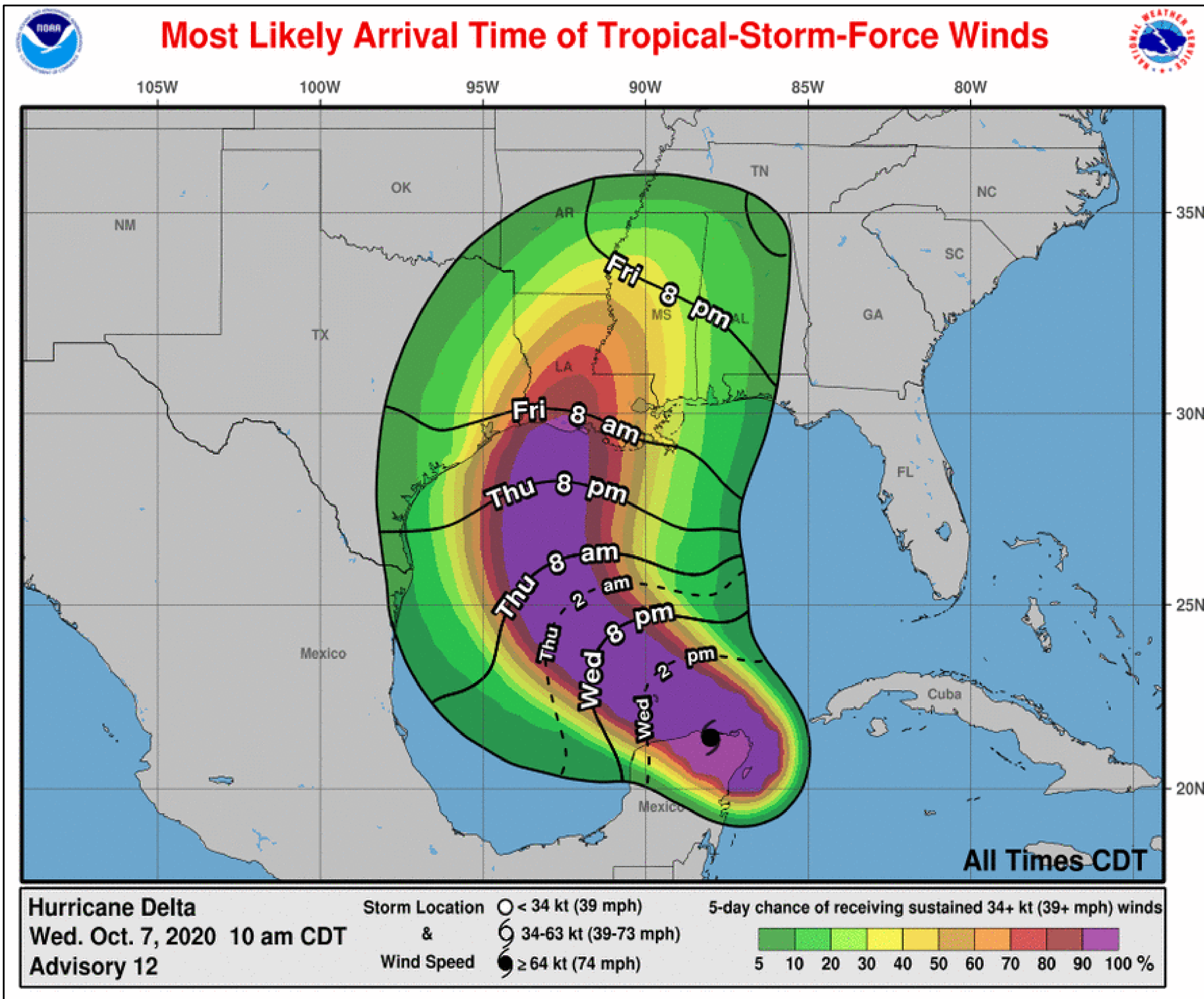
- Hurricane Delta over tip of Yucatan.
- Will emerge out over Gulf of Mexico today where restrengthening will likely occur.

Most Likely Time of Arrival

Hurricane Delta



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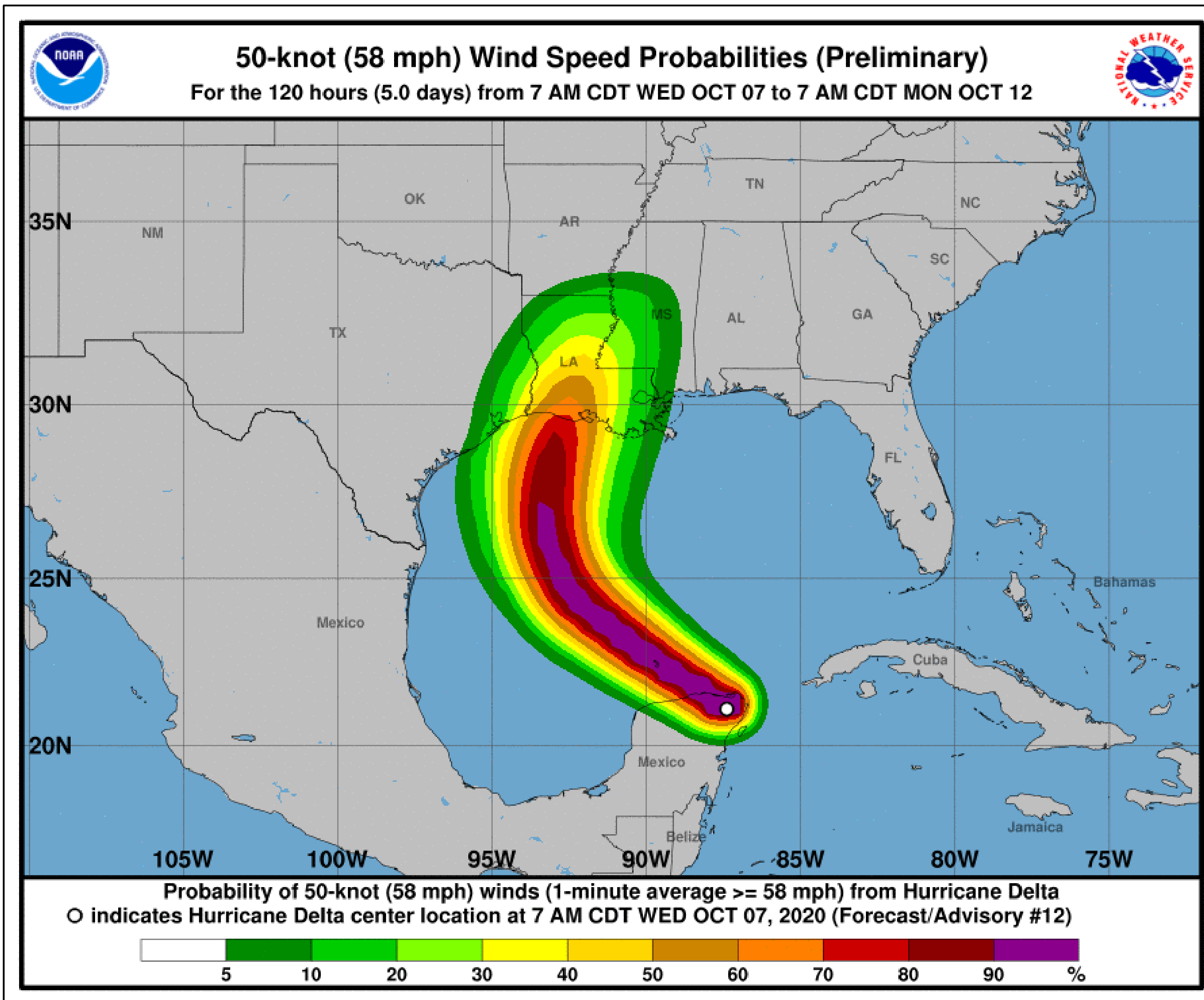
- The greatest point probability of TS force winds is over SW Louisiana but fairly high (>50) from San Luis Pass on up the coast including Galveston Bay.
- The most likely time of arrival of Tropical Storm Force Winds late Thursday night/Friday morning for the LA and Upper TX coast.
- This slight shift to the left reflects the change in the forecast track.

50kt Wind Speed Probabilities

Hurricane Delta



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The greatest point probability of sustained 58 mph winds is over Louisiana, 10 to 30 percent chance from Galveston Bay to the TX/LA border.

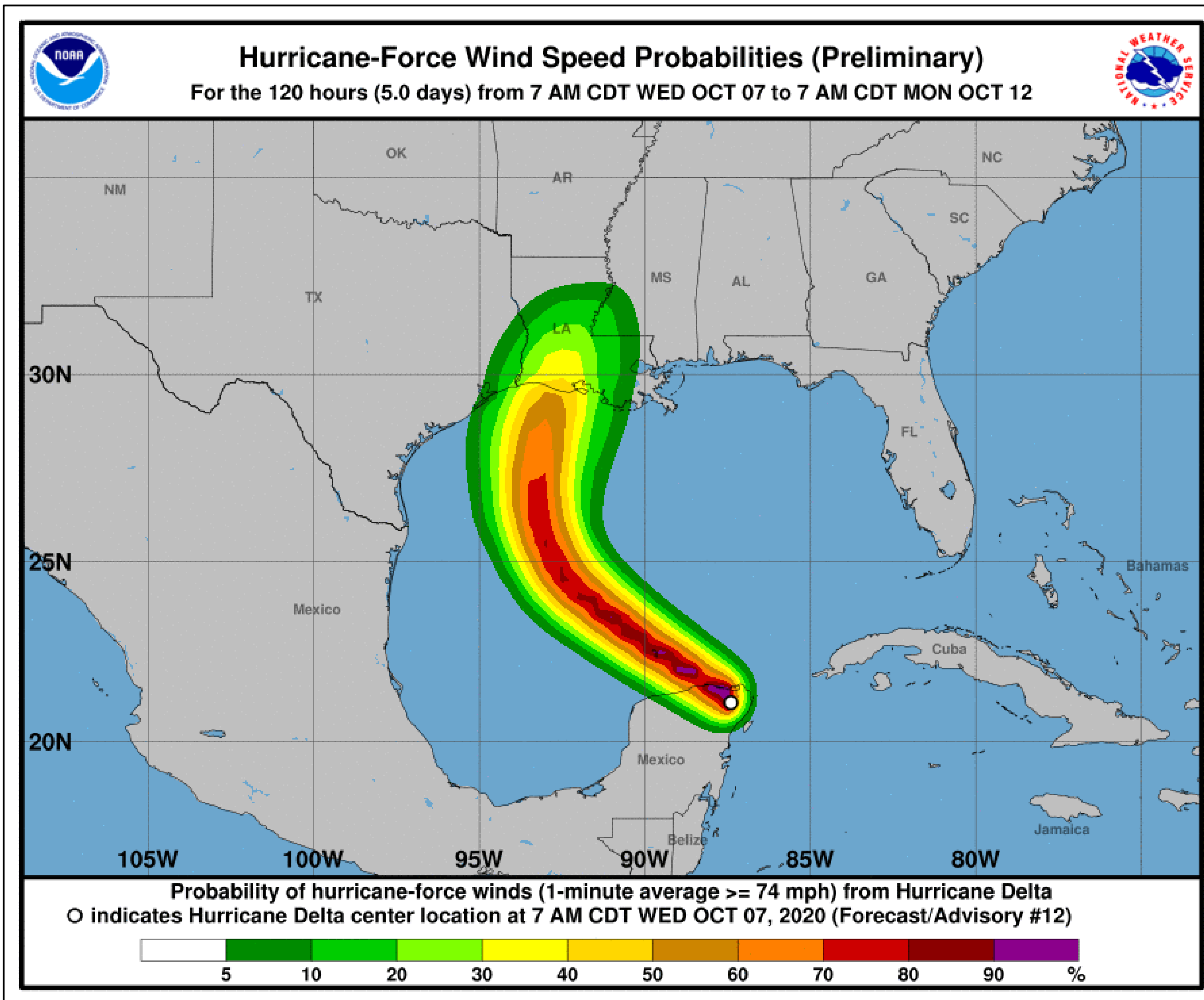
This is not changed significantly from yesterday.

Hurricane Wind Speed Probabilities



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The greatest point probability of sustained hurricane force winds is over Louisiana, 5 to 15 percent chance from Galveston Bay to the TX/LA border.

This is not changed significantly from yesterday. A further shift west in the track would bring the higher winds into the area.

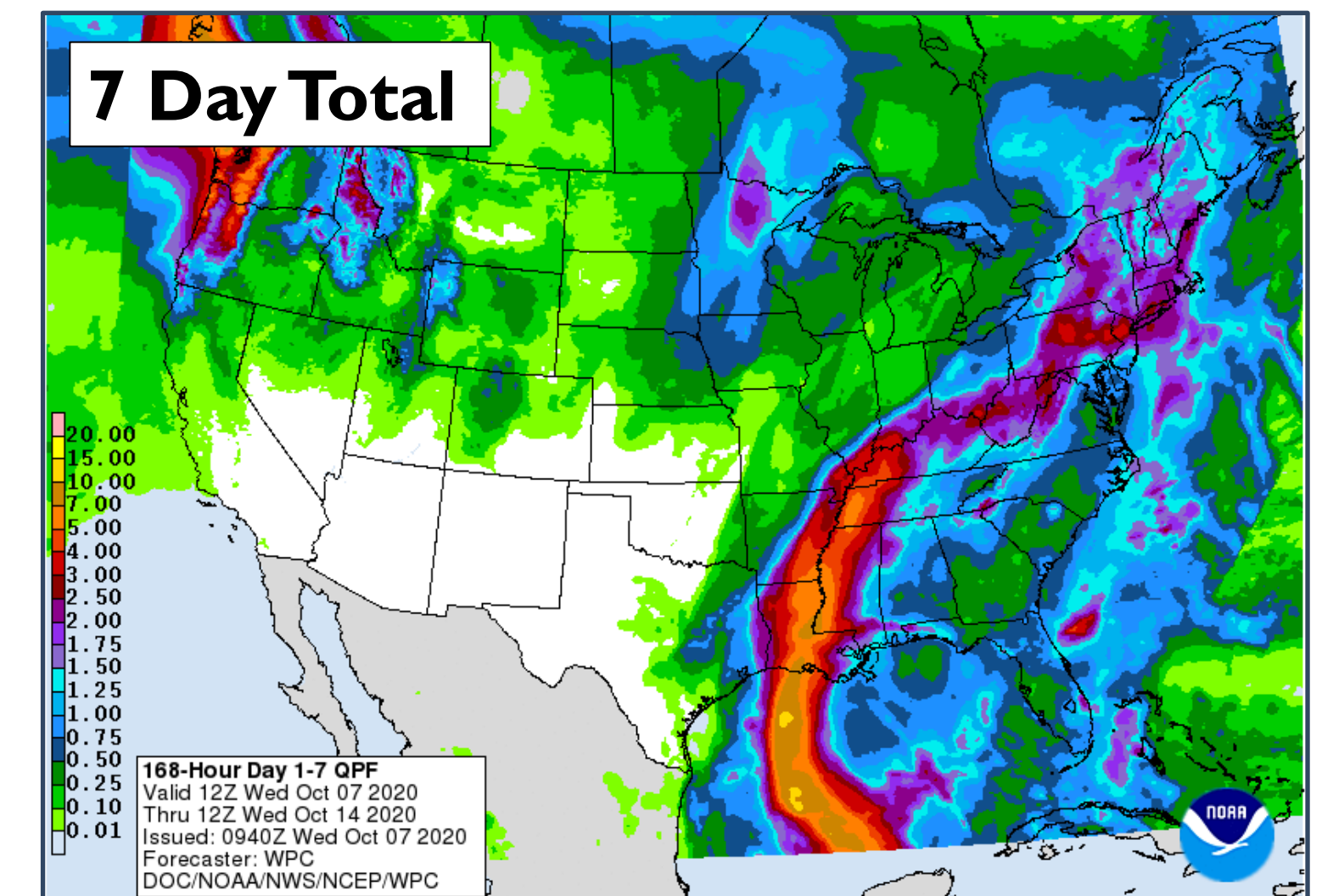
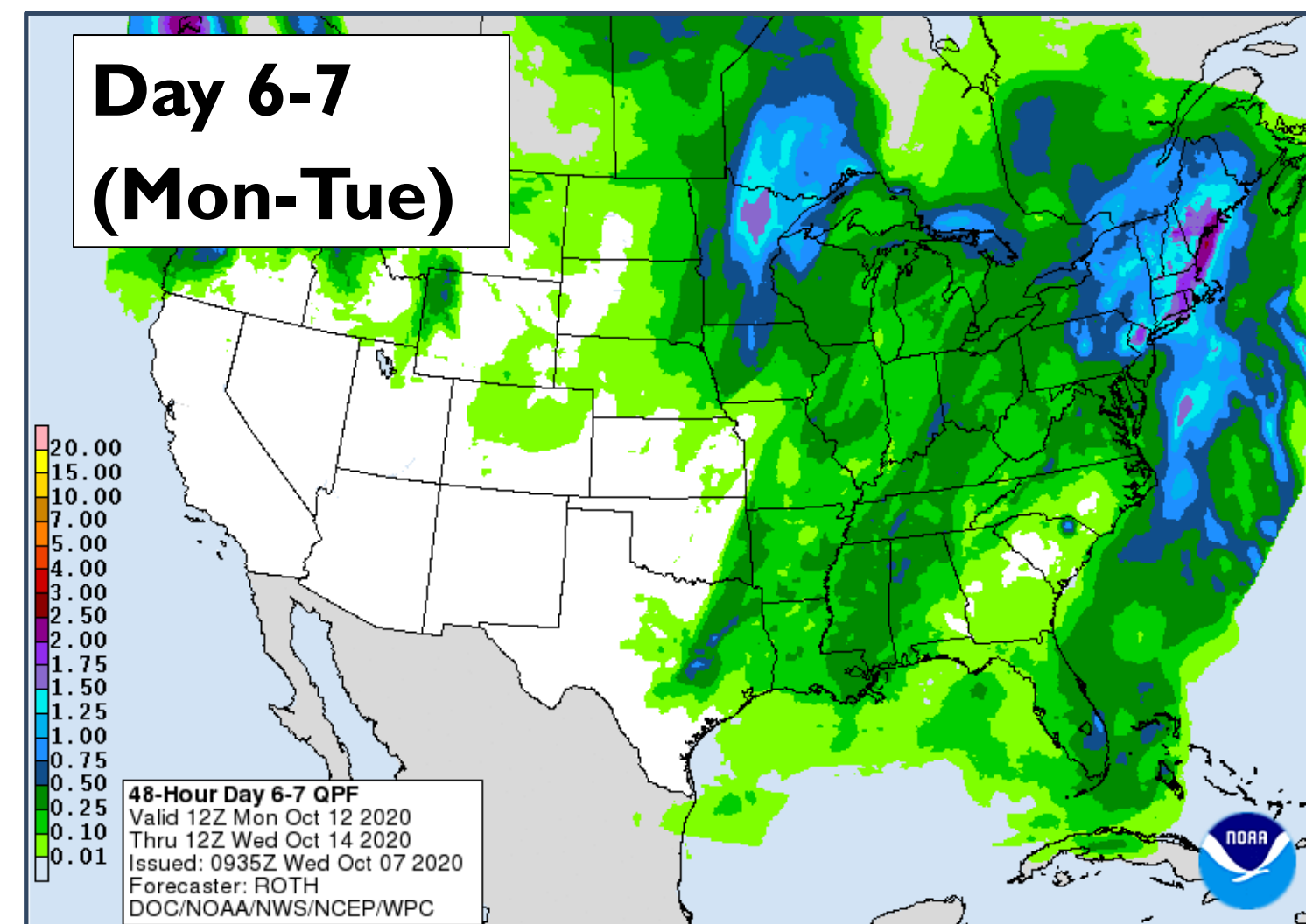
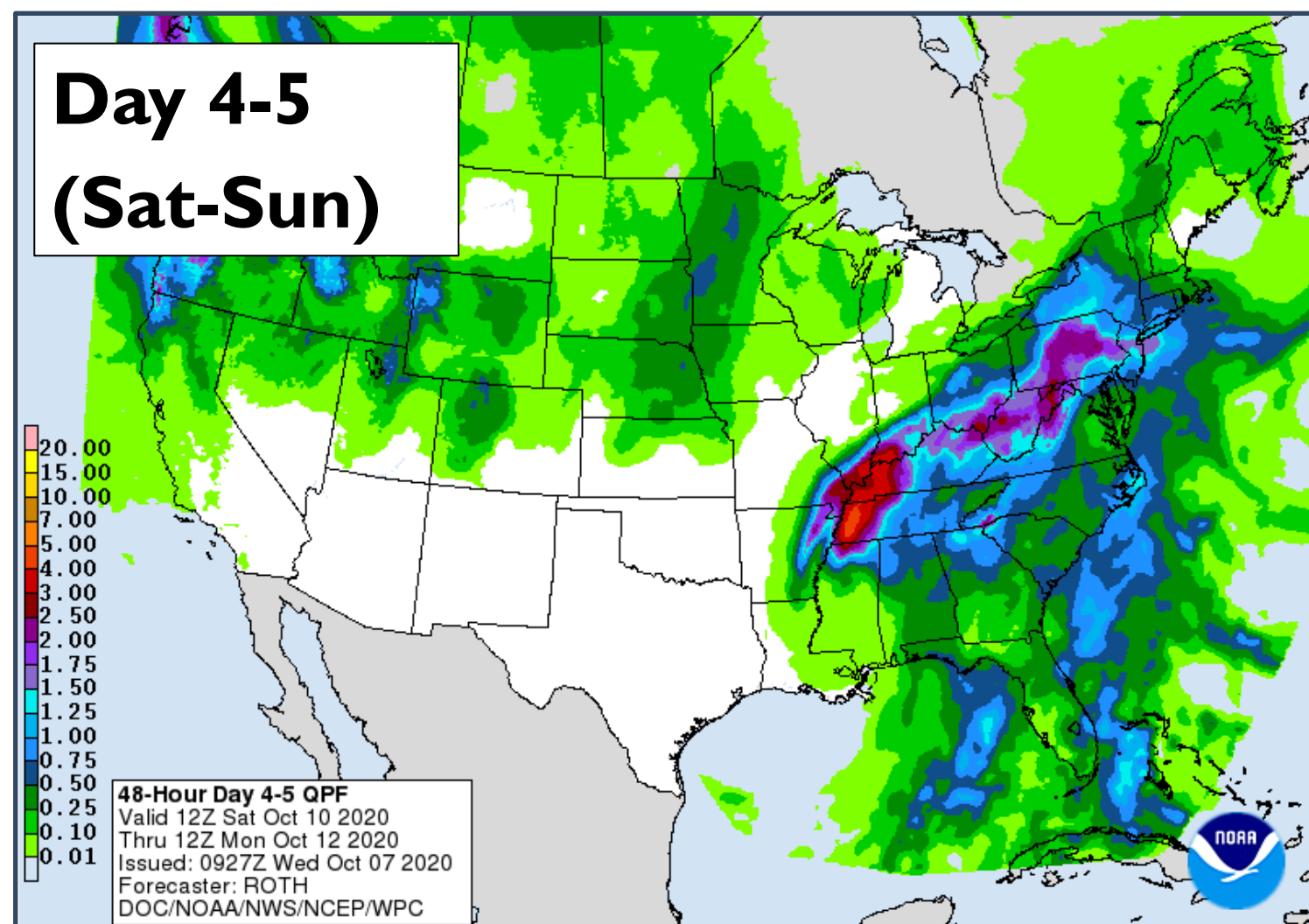
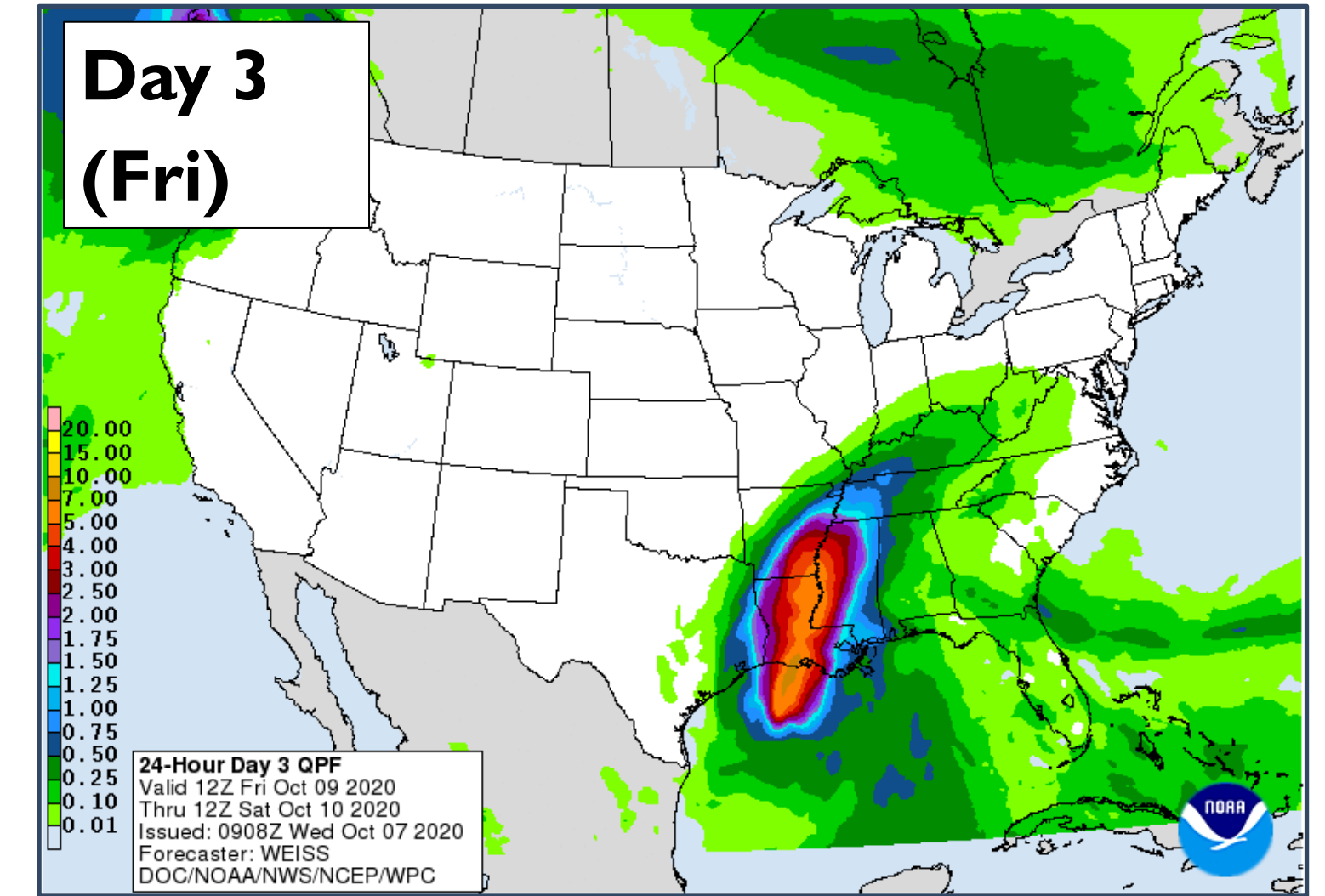
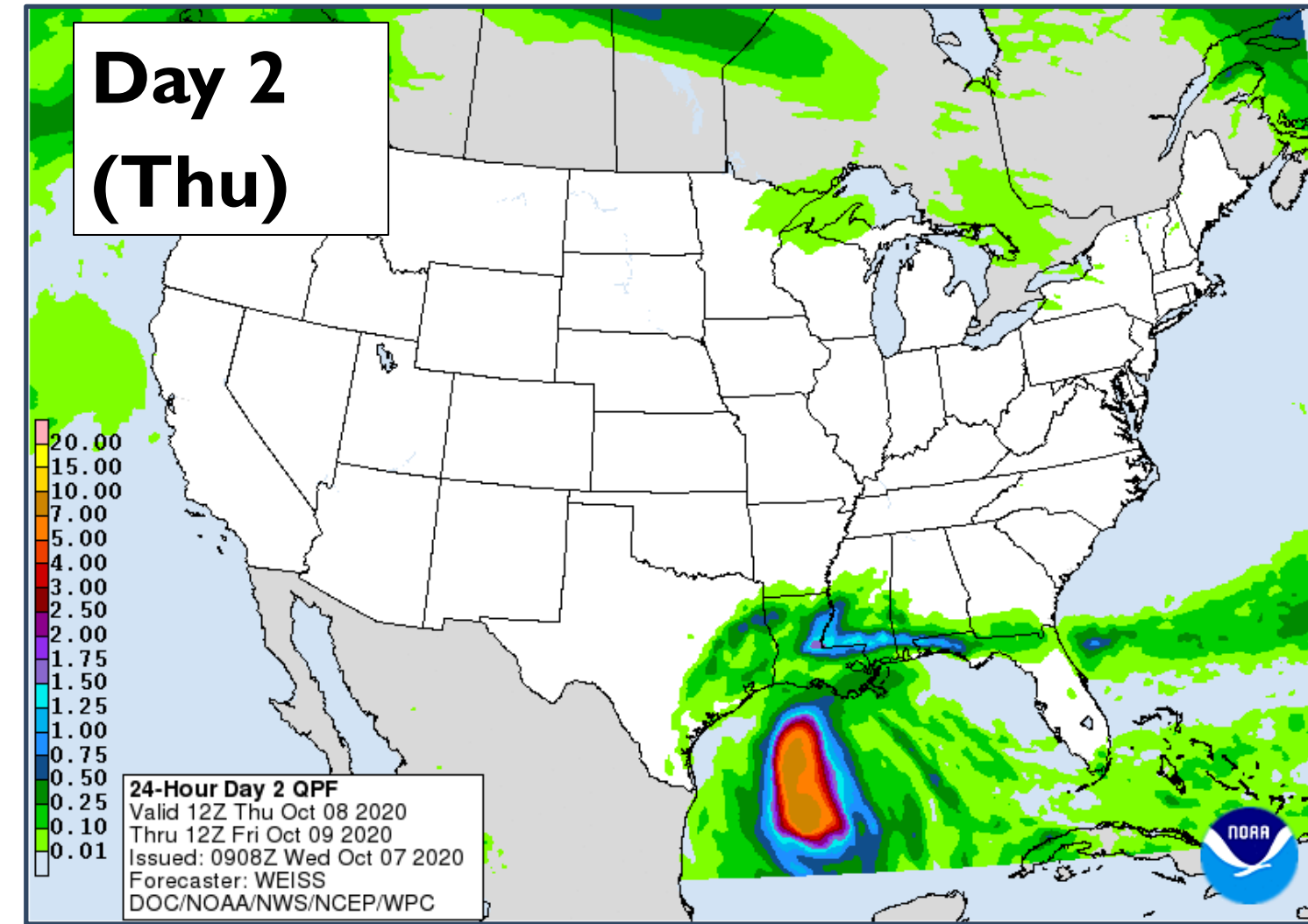
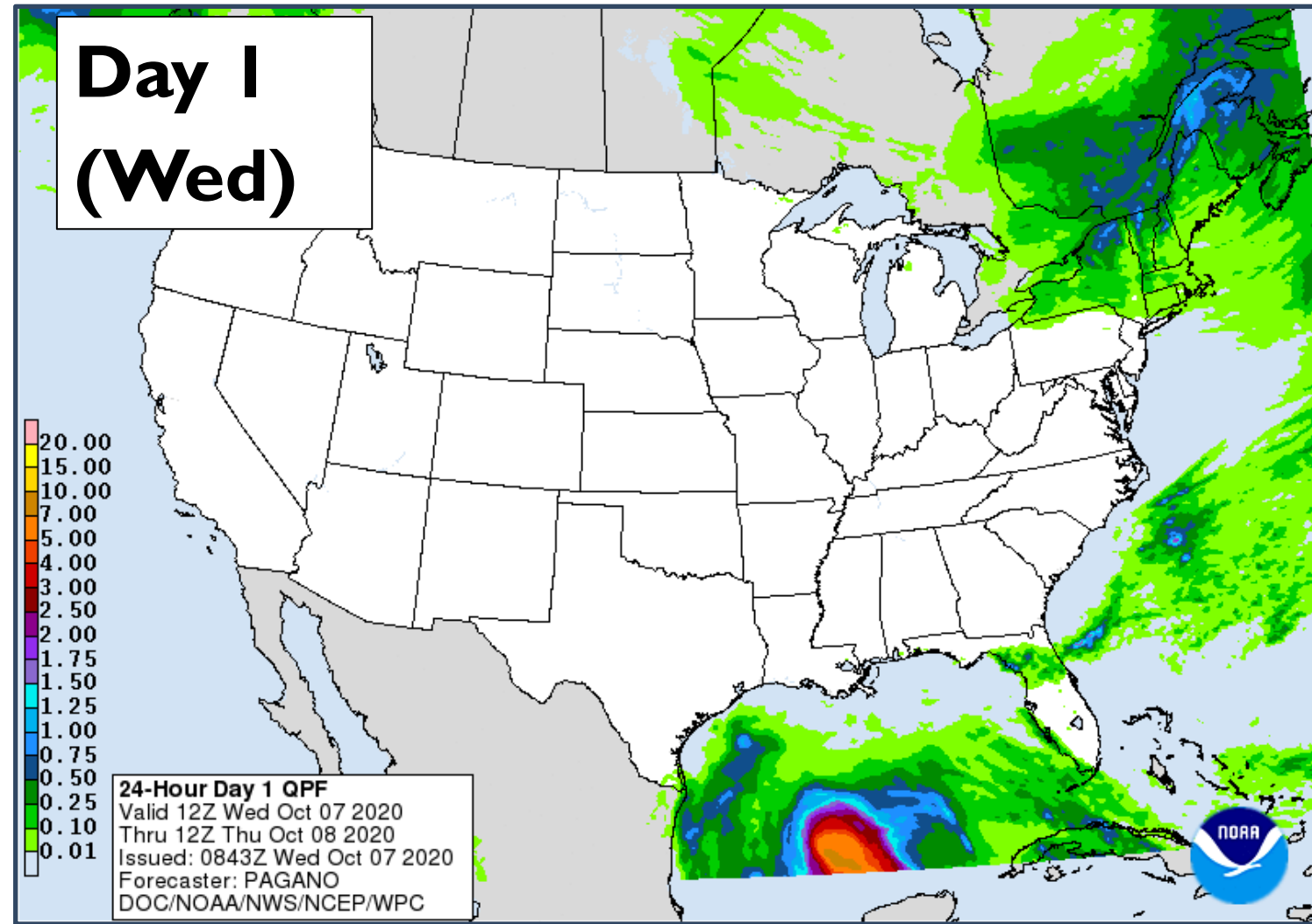
Rainfall Forecast

Hurricane Delta



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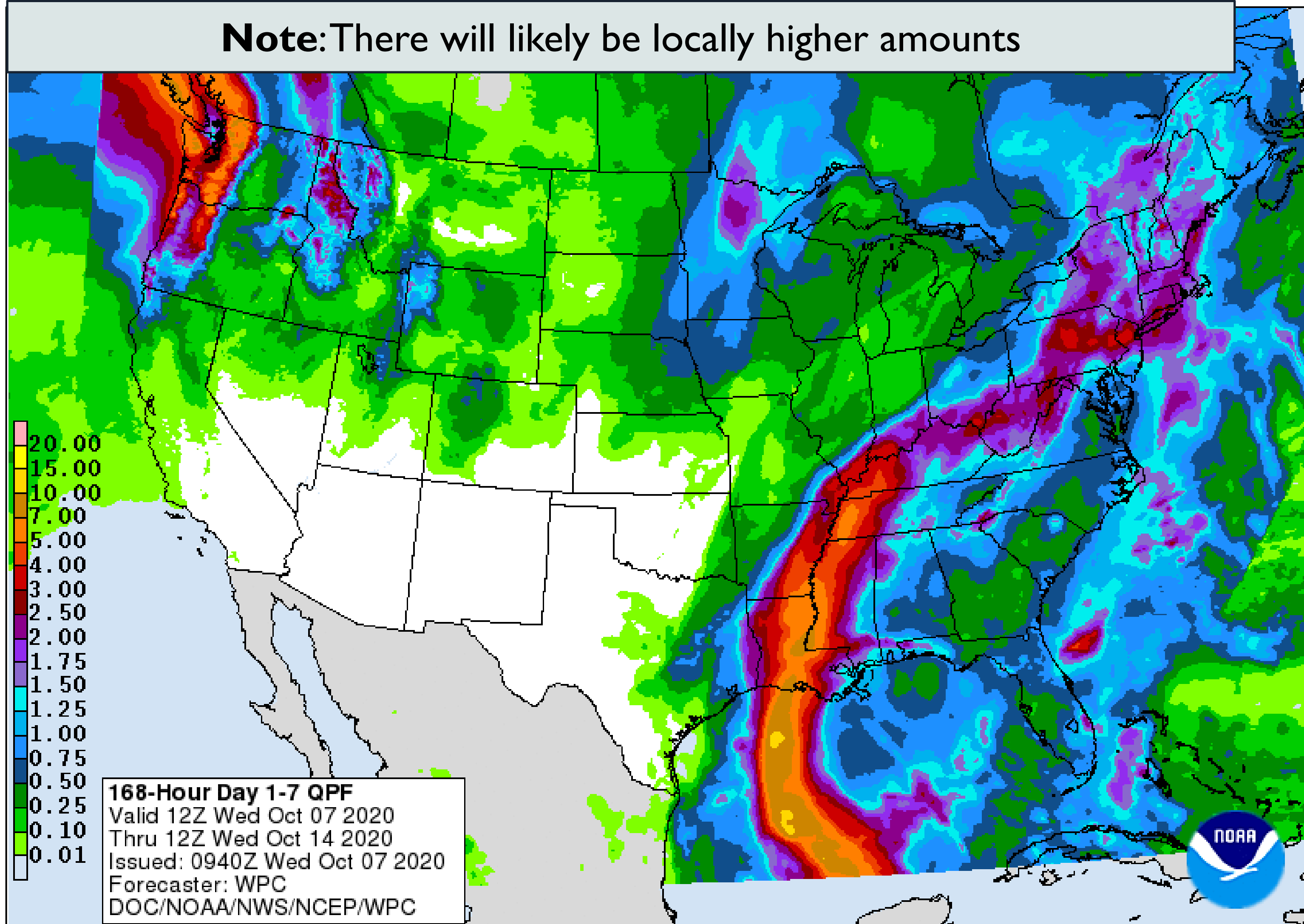
Expected Storm Total Rainfall

Hurricane Delta



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Note: There will likely be locally higher amounts



Band of 5 to 10 inches possible near and right of track from this fast moving storm.

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

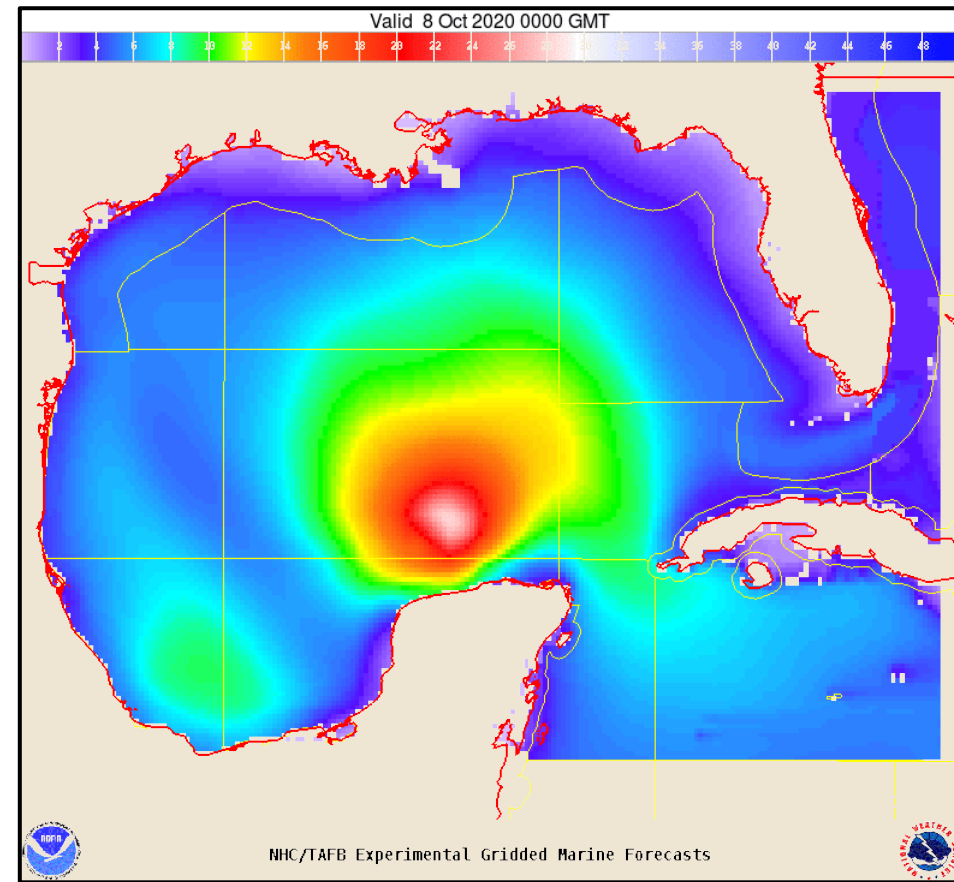
Forecast Wave Heights



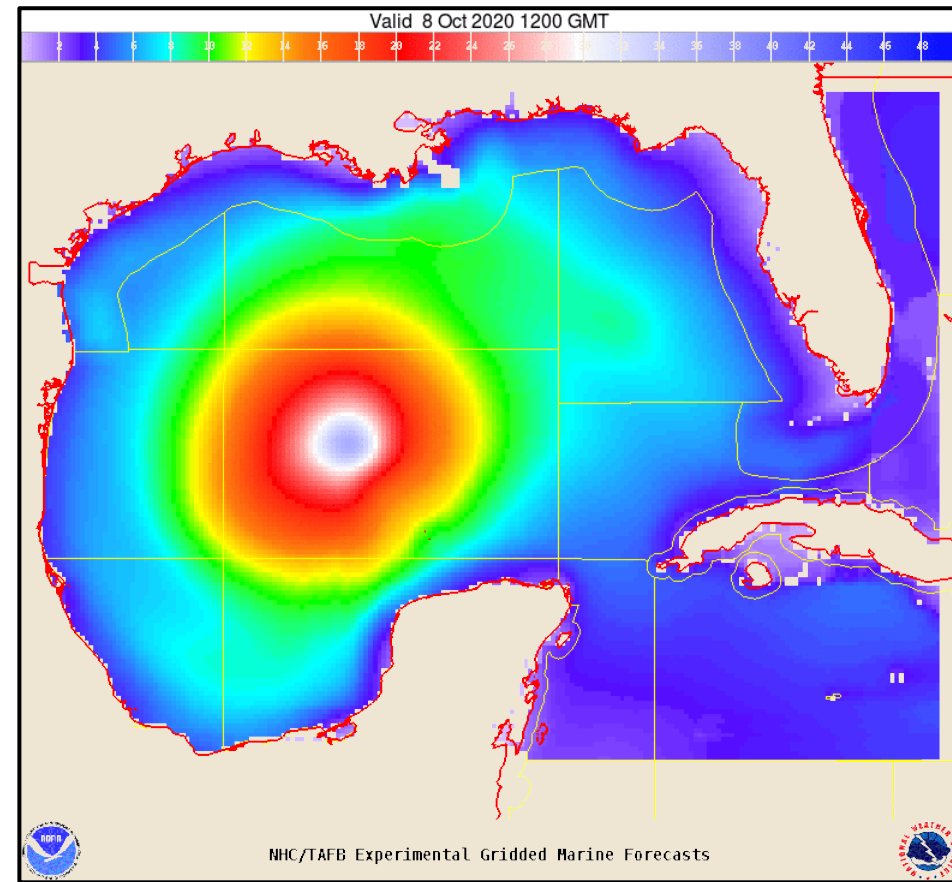
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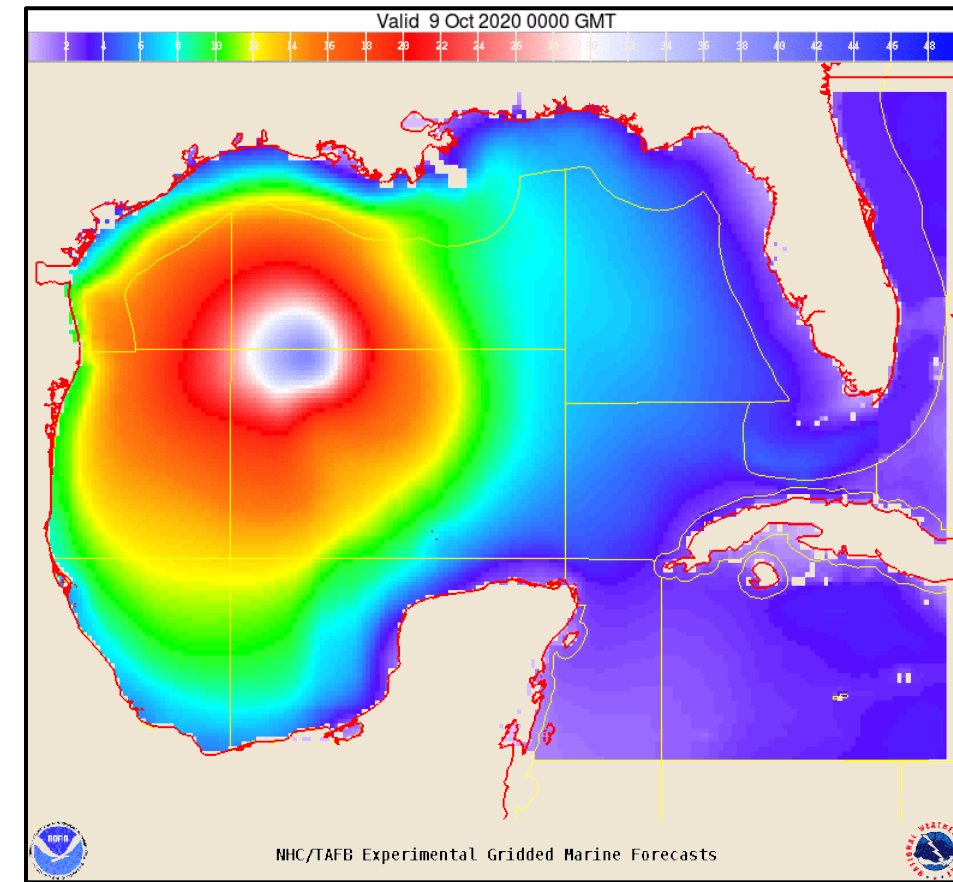
Swell begins to fill in Thursday



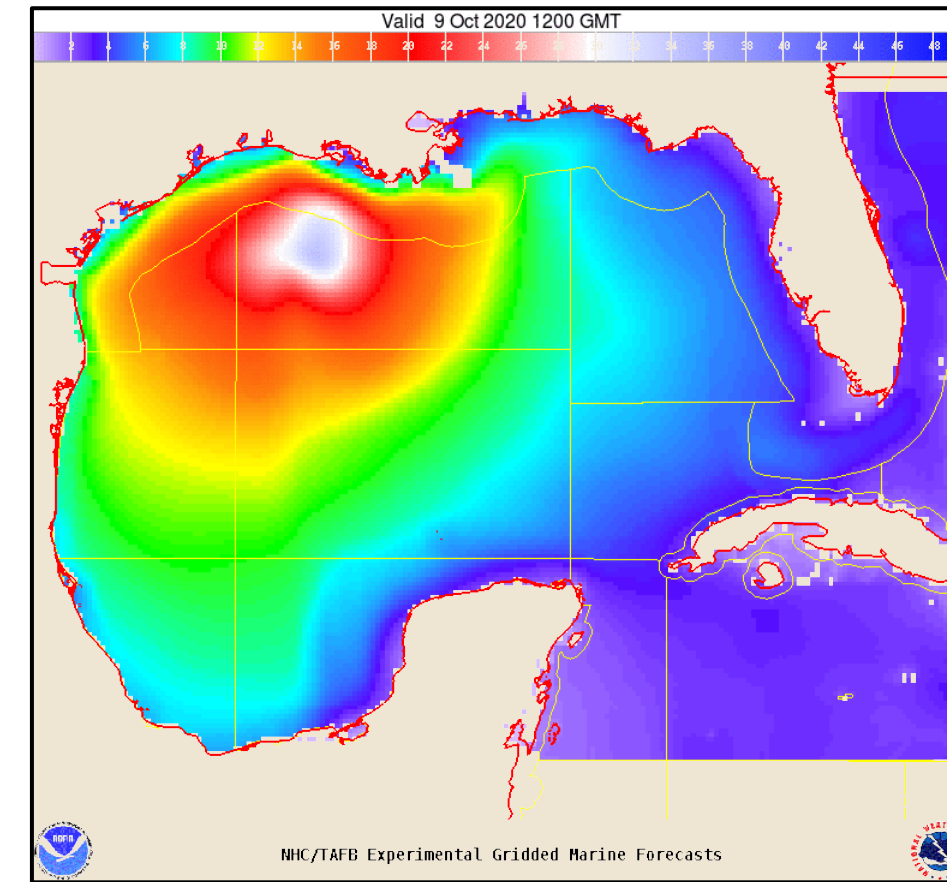
Wed am



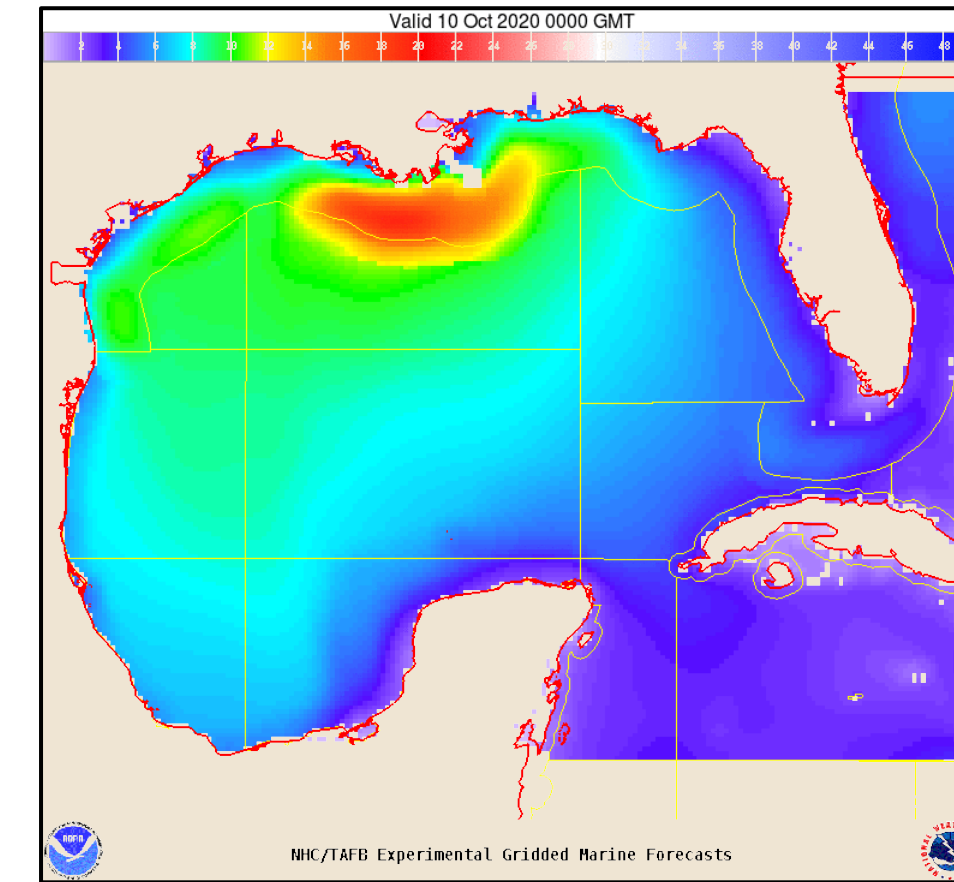
Wed pm



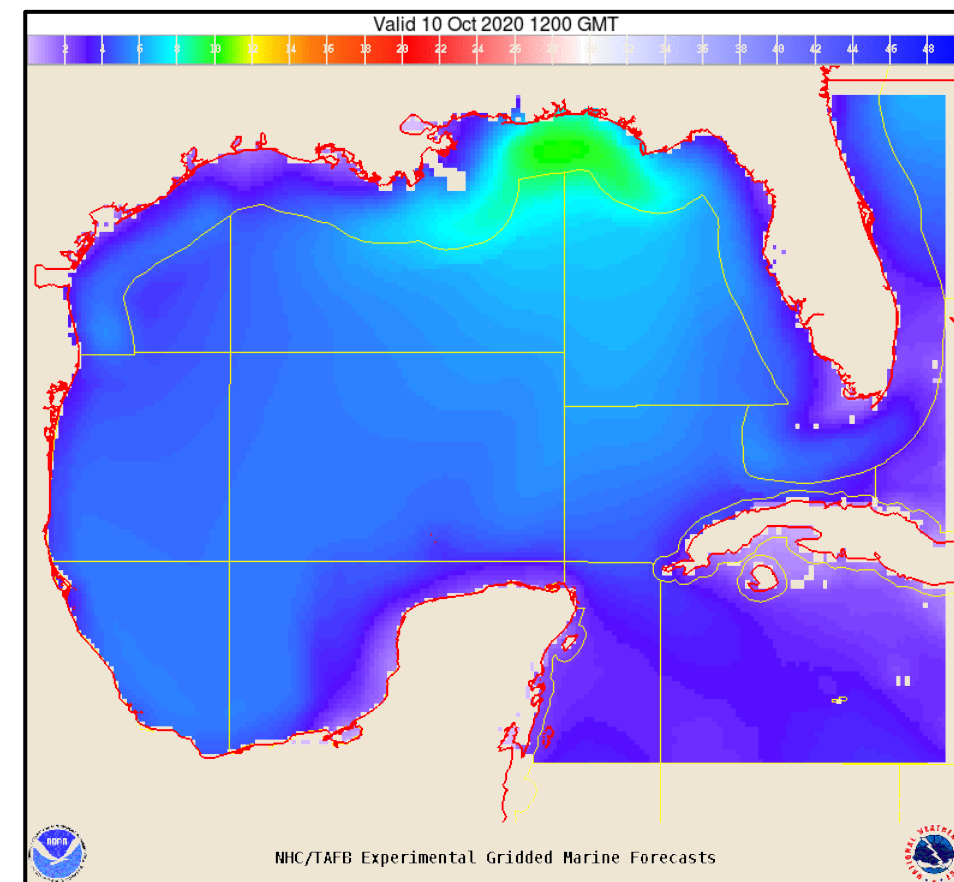
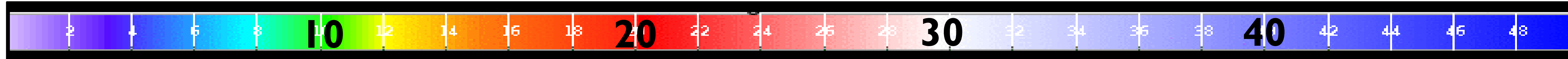
Thu am



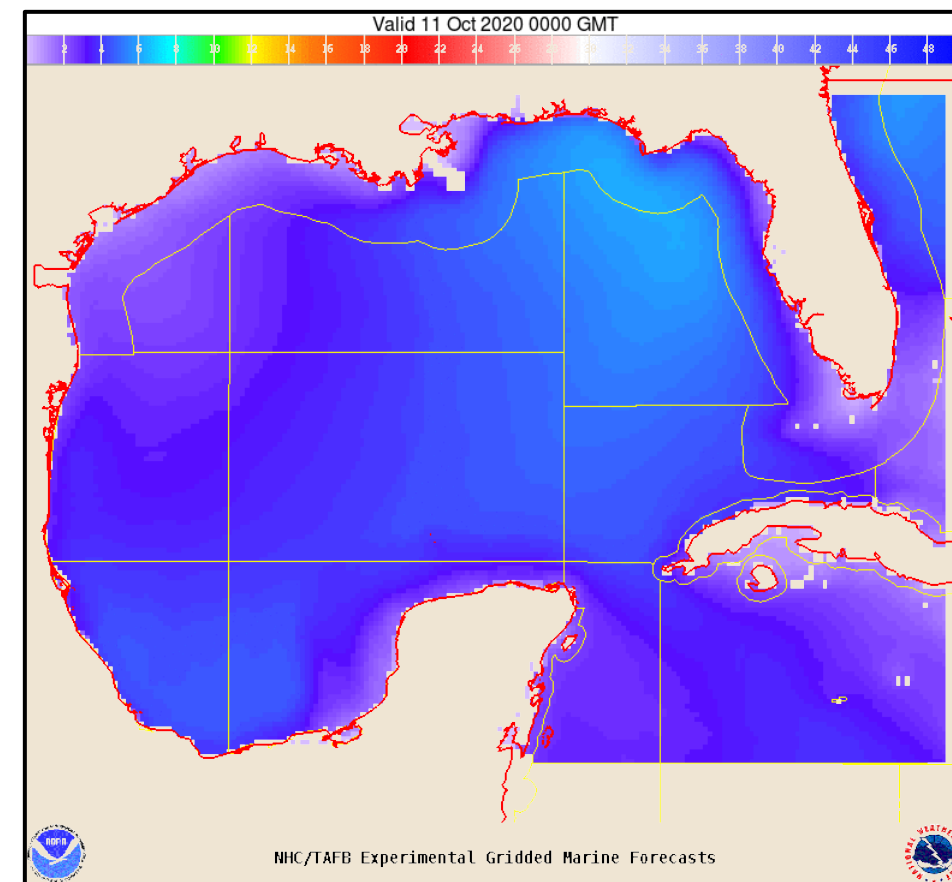
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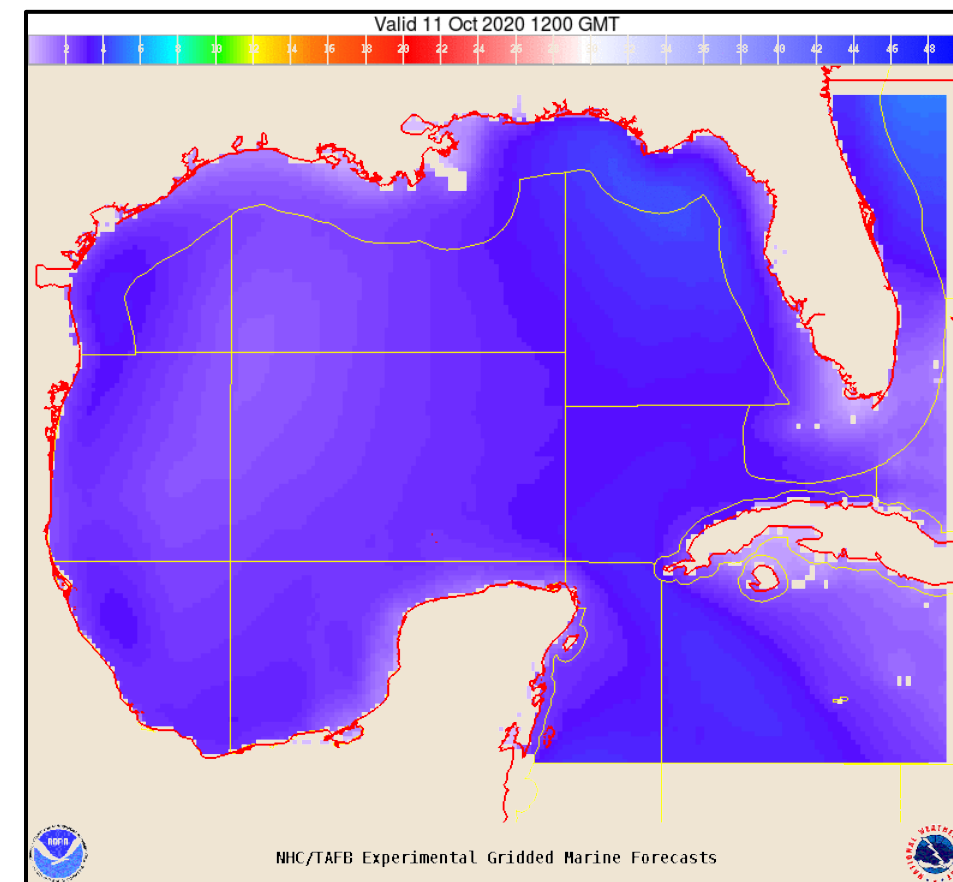
Fri am



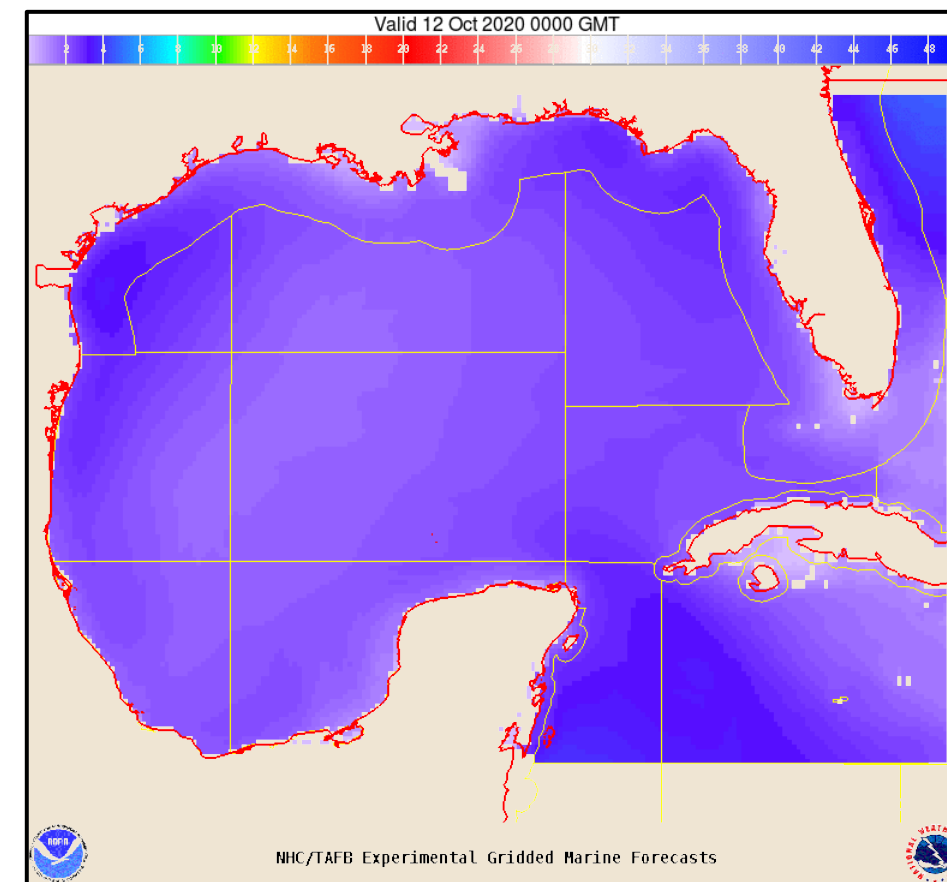
Fri pm



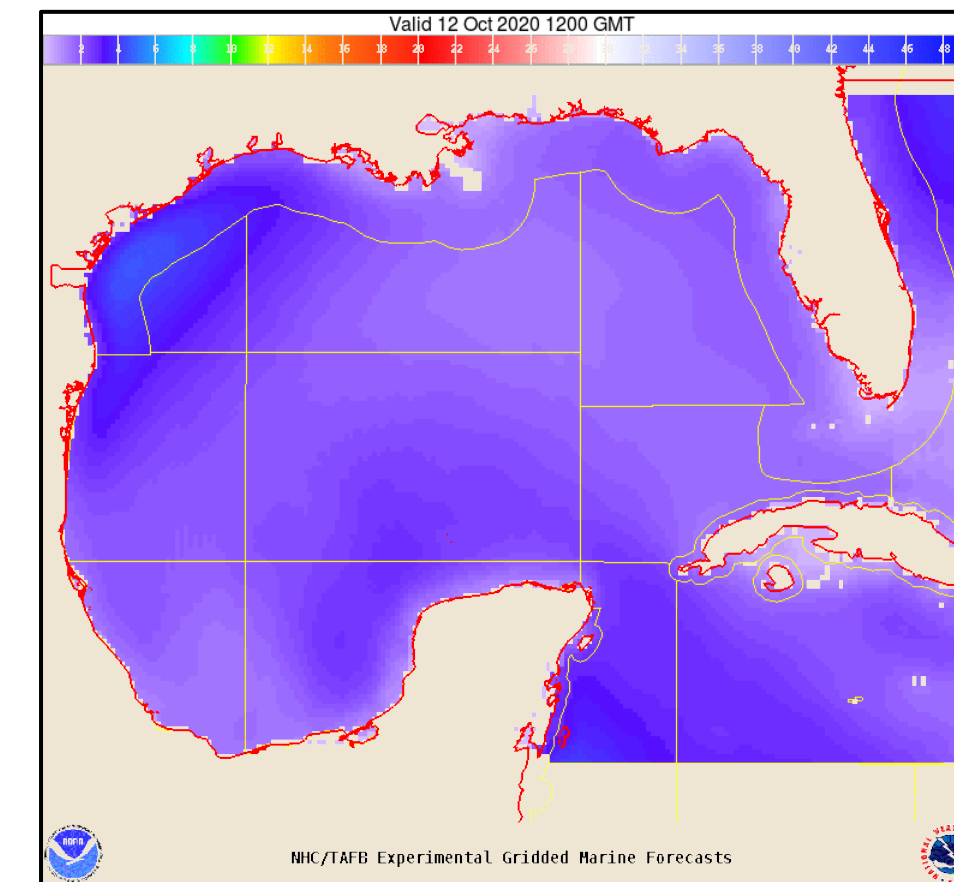
Sat am



Sat pm



Sun am



Sun pm

Storm Surge

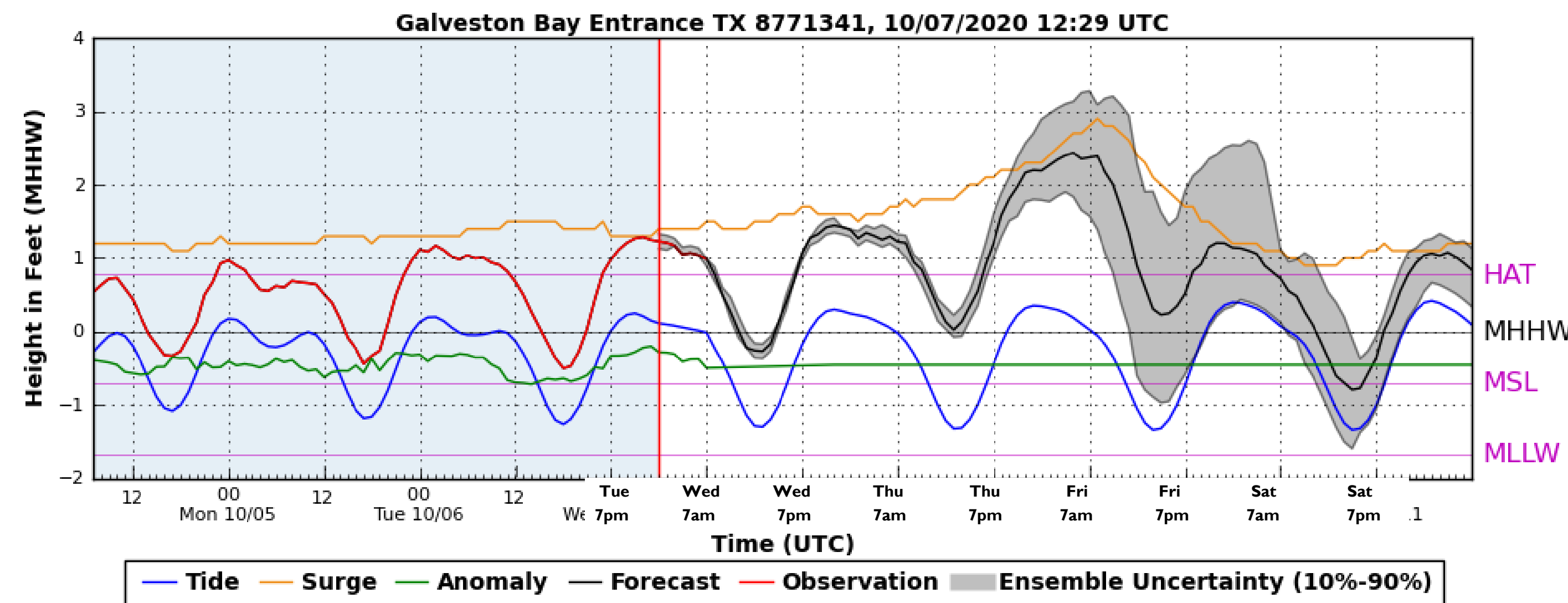
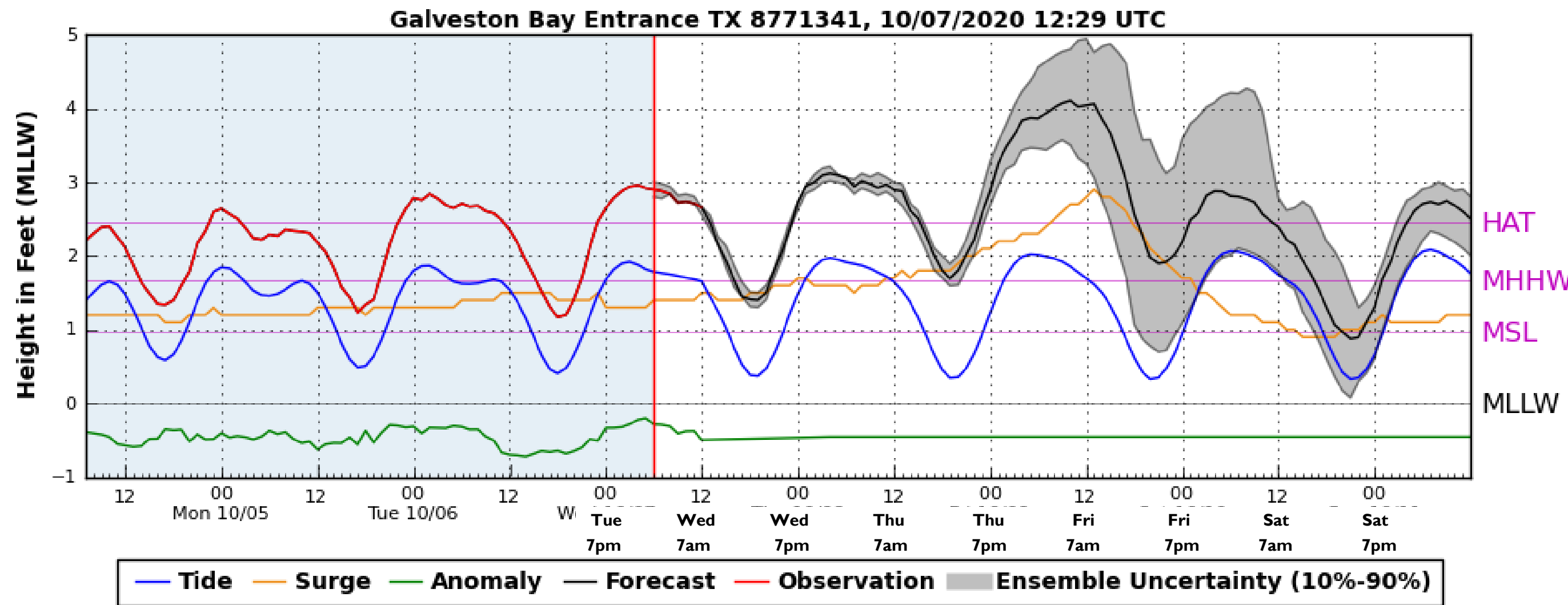
Hurricane Delta



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Galveston Bay Entrance: Gulf Facing Coastline

- Shown observed water levels (red line) and forecast levels black line, Grey shaded area gives a range of possibilities.
- Doesn't fully account for impacts of wave runup, setup on Gulf Beaches.
- Stormtides peak near 4 to 4.5 feet Gulf side with minor coastal flooding starting Thursday night.
- Could see some wave runup/setup as early as Thursday as swells arrive at the Texas coast.

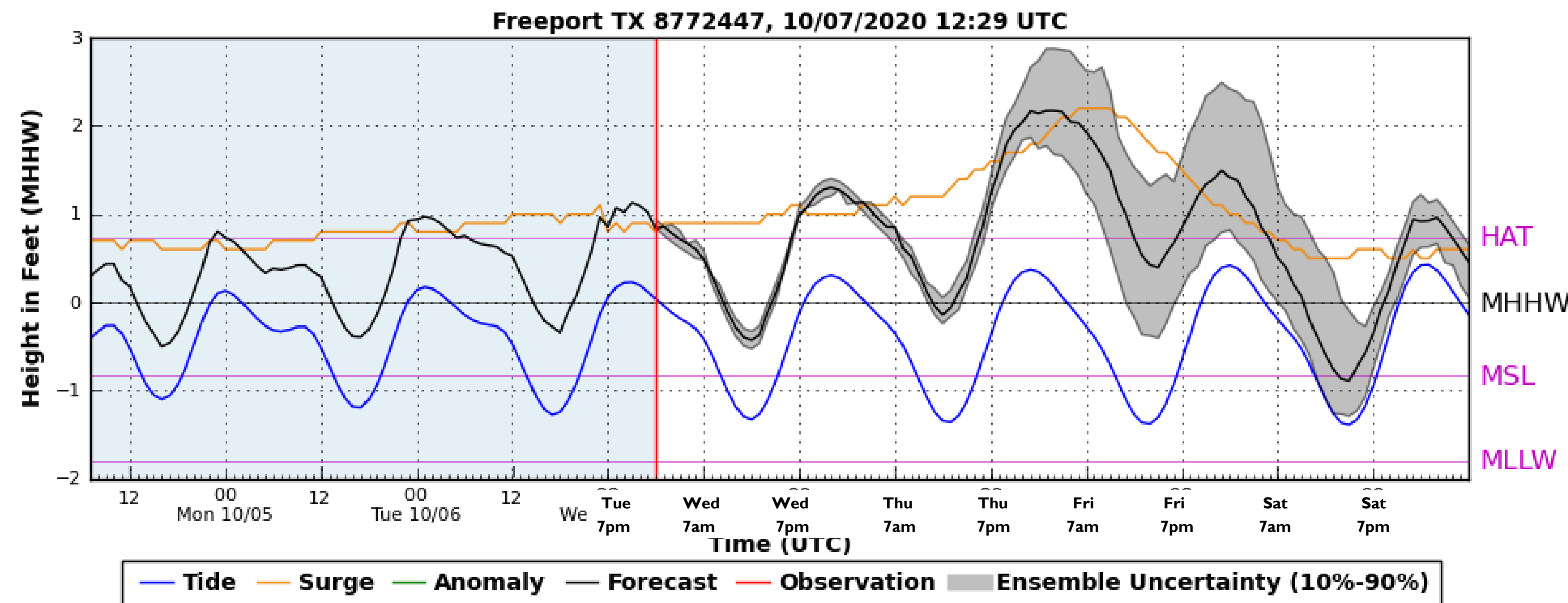
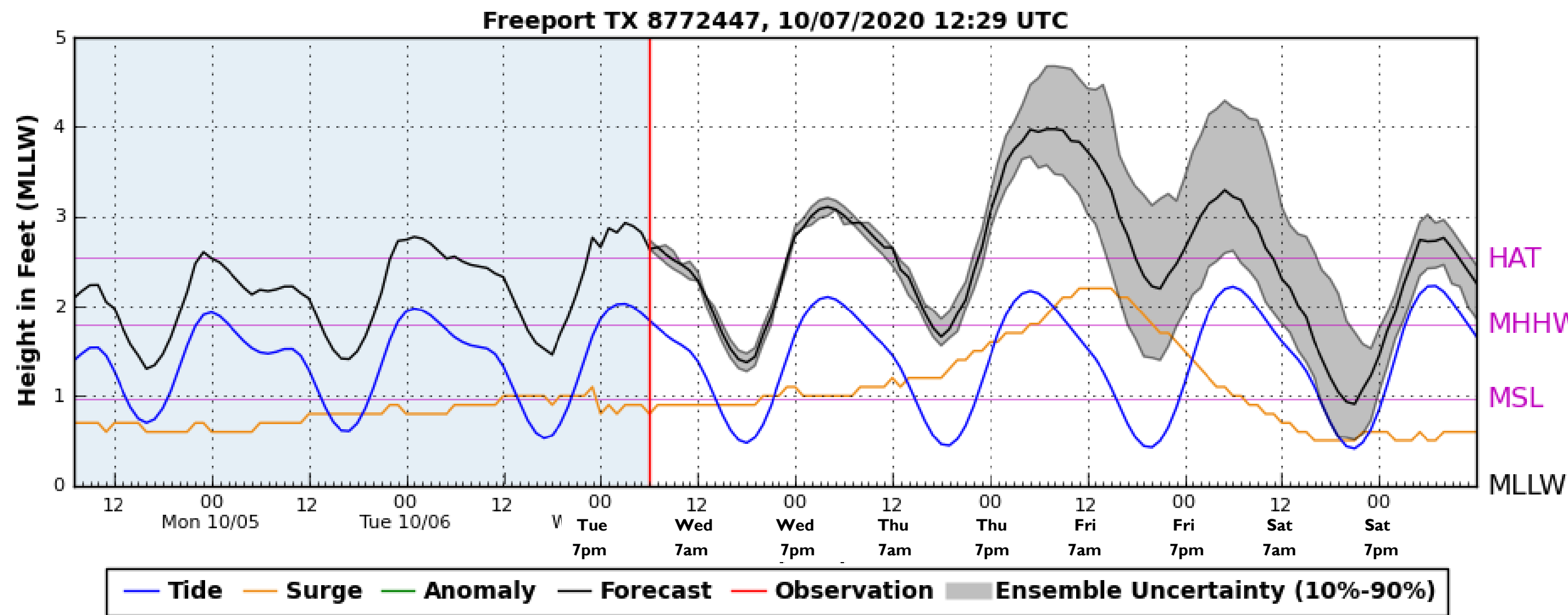


Storm Surge

Hurricane Delta



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Freeport: Gulf Facing Coastline

- Shown observed water levels (red line) and forecast levels black line,
- Grey shaded area gives a range of possibilities.
- Doesn't fully account for impacts of wave runup, setup on Gulf Beaches.
- Stormtides peak near 4 to 4.5 feet MLLW Gulf side **with minor coastal flooding starting Thursday night.**
- Could see some wave runup/setup as early as Thursday as swells arrive at the Texas coast.

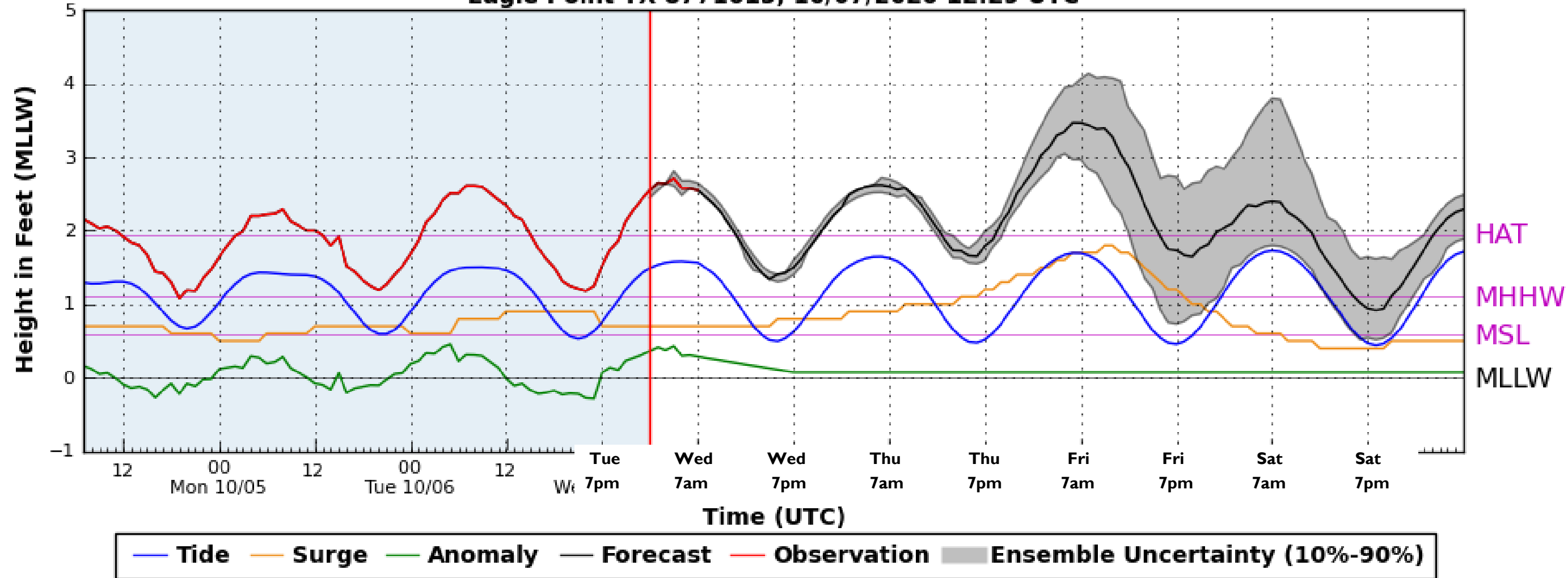
Storm Surge

Hurricane Delta

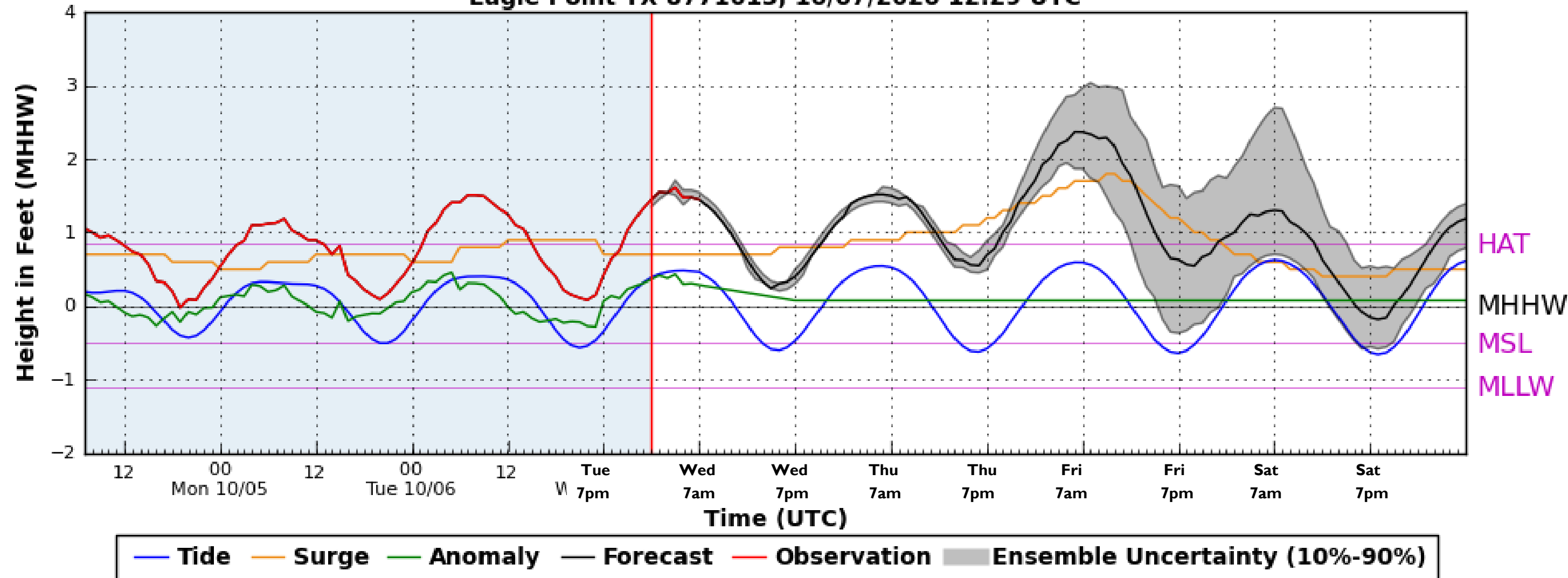


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Eagle Point TX 8771013, 10/07/2020 12:29 UTC



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Western Shore Galveston Bay

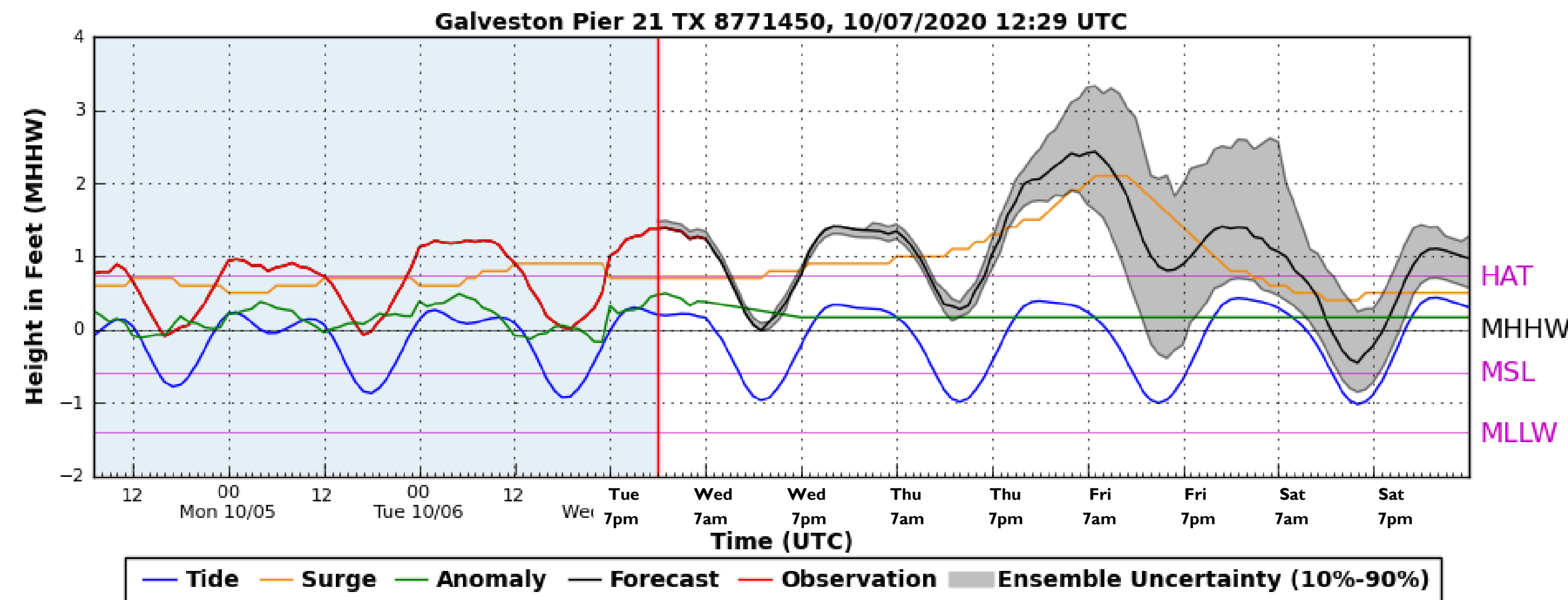
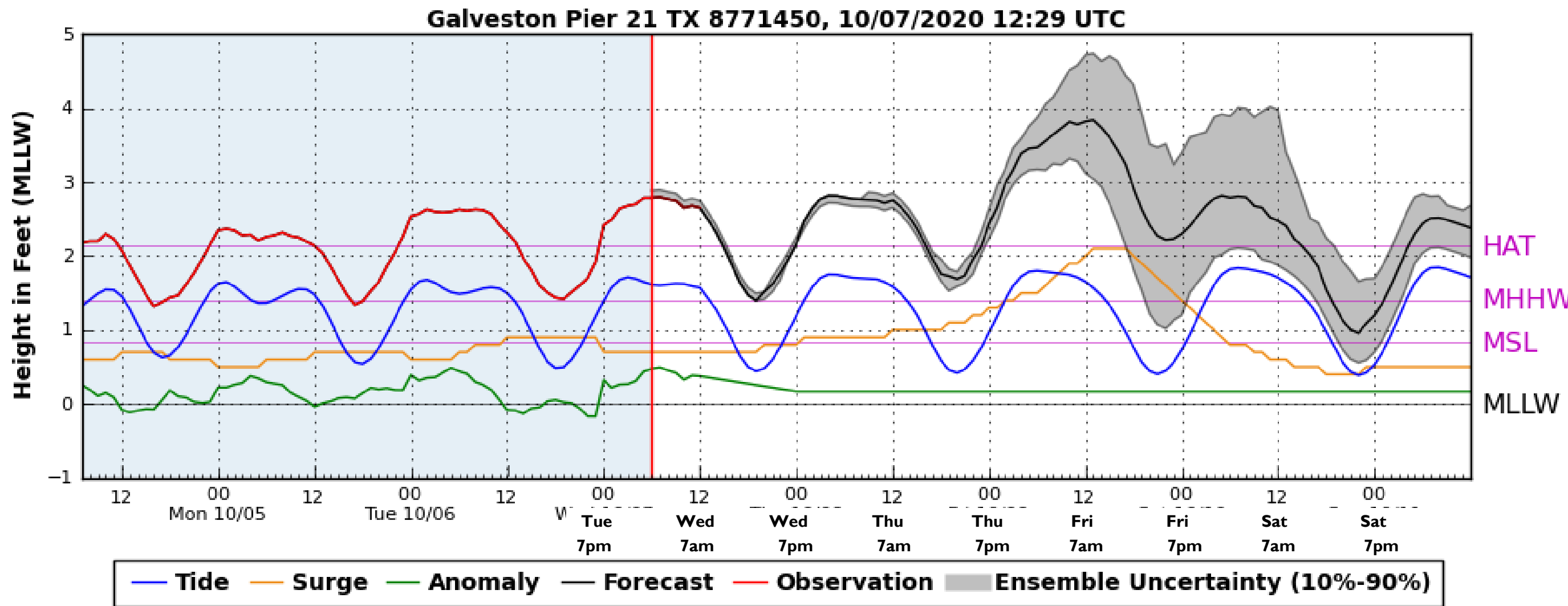
- Shown observed water levels (red line) and forecast levels black line, Grey shaded area gives a range of possibilities.
- Stormtides 3.5 to 4 feet Galveston Bay (best forecast based on current track).
- *These values typically correspond to minor coastal flooding of low lying areas.*
- These values could change if track changes.

Storm Surge

Hurricane Delta



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Bay Facing Beaches, Barrier Islands

- Shown observed water levels (red line) and forecast levels black line,
- Grey shaded area gives a range of possibilities.
- Stormtides peak near 4 feet starting Thursday night. At these values typically have minor coastal flooding low lying areas.
- Would see a second peak possibly larger than shown Friday night on back side of storm as north winds push water on bay/north facing coastline.

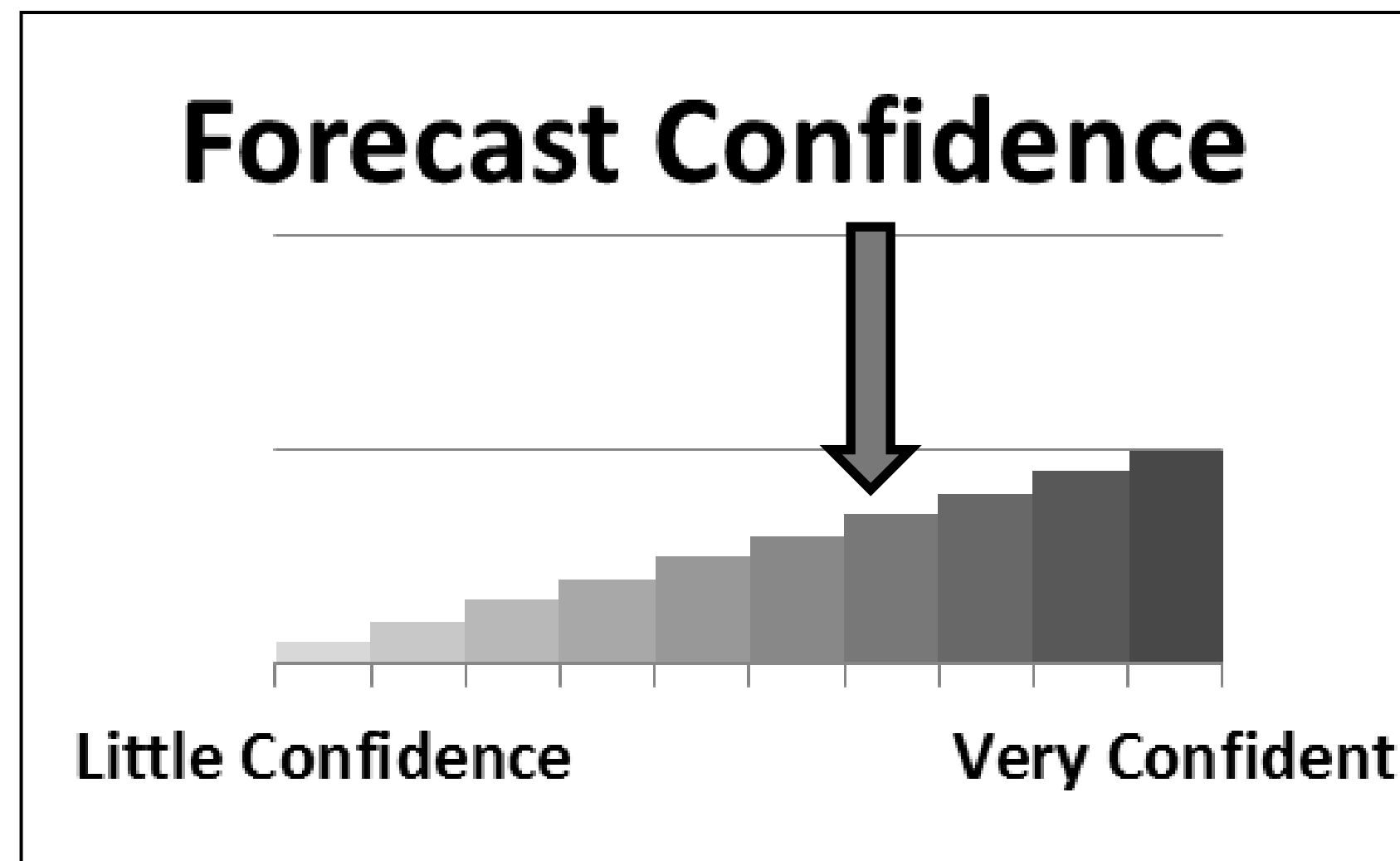
Key Take-Aways

Hurricane Delta



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- High surf, swells at Texas coast starting Thursday. Elevated tides, minor coastal flooding Thursday night and Friday. Tropical storm force winds possible in watch area late Thursday night and Friday.
- No flood or tornado concern at this time.
- Impacts are track dependent. A westward shift in track would mean more significant impacts than advertised. An eastward shift less.



High confidence on surge and high surf impacts, elevated tides. Lower confidence on exact track and track dependent impacts (how high the winds, surge, rainfall, etc)



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



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