



Tropical Storm Francine Briefing

11:00 AM CT

Monday, Sep 9, 2024

PTC Six has become Tropical Storm Francine



Situation Overview

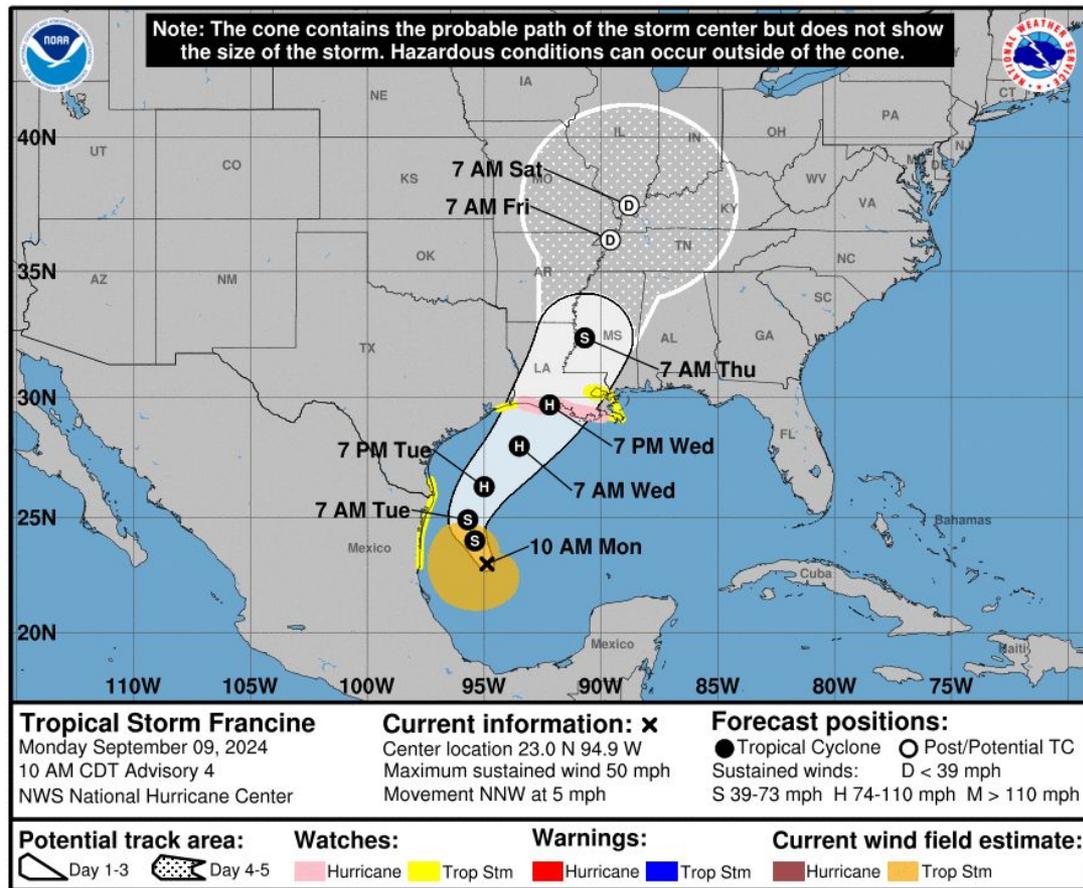
Tropical Storm Francine

- What has changed...PTC 6 is now Tropical Storm Francine.
- Forecast track has shifted eastward, suggesting lesser impacts for Southeast Texas, more direct, severe impacts for Louisiana. Still expecting minor to moderate storm surge flooding for portions of the coastline. Marine areas also impacted beyond 20 nm especially with high winds and seas.
- Coastal Flood Warning in effect starting Tuesday night for Gulf Coast north of Sargent and around Galveston Bay.
- For land areas, Tropical Storm and Hurricane Watches have been issued for areas east of High Island (not including our forecast area). TS Watches also in effect for our coastal water zones 20 nm to 60 nm offshore.
- Have better confidence in track as center is getting better organized and track models in good agreement, but will need to continue to monitor.



Situation Overview

Tropical Storm Francine



- Note shift east in forecast cone, now outside our forecast area. Higher winds should remain offshore and east of High Island.
- TS Watch from east of High Island to Cameron, LA. Hurricane Watch for LA coast eastward to Grand Isle.
- Slight shifts in track still possible; a west shift could bring TS force winds closer to shore and into our NE coastal areas.



Hazardous Marine Conditions

Weather Forecast Office
Houston/Galveston TX
Issued Sep 09, 2024 10:32 AM CDT



Through Wednesday Afternoon

SMALL CRAFT ADVISORY

In effect through Wednesday Afternoon

- NE to N winds 20 - 30 knots, gusts up to 35 knots
- Very rough bay waters expected
- Smaller vessels should avoid these conditions



Hazards
Hurricane Watch
Tropical Storm Watch
Small Craft Advisory

TROPICAL STORM WATCH

In effect through Wednesday Afternoon

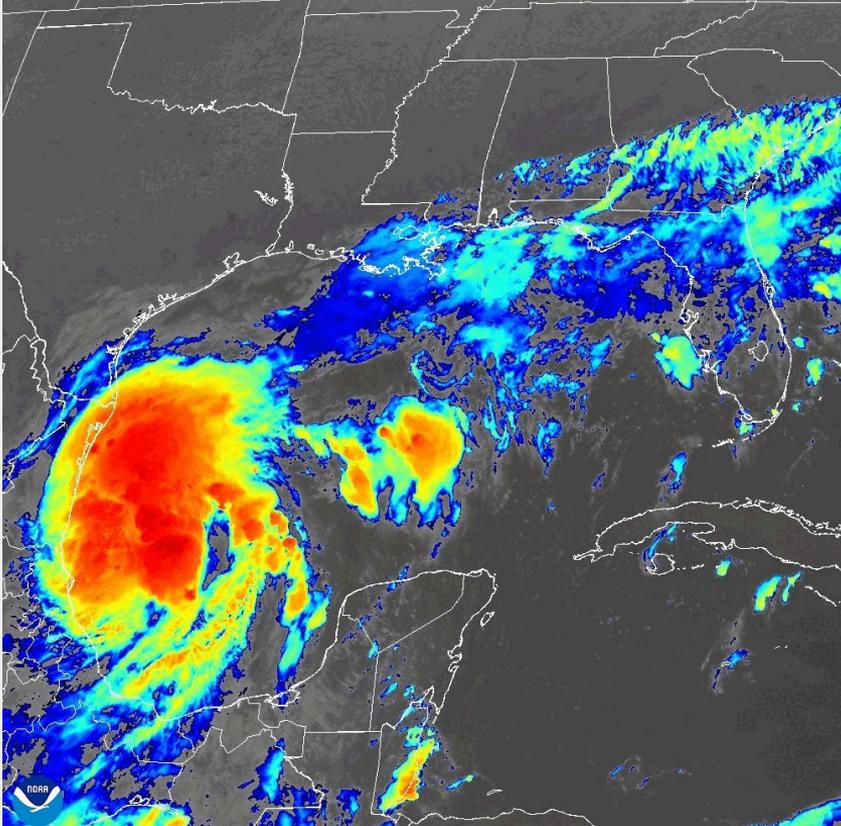
- NE to N winds 25 - 35 knots, gusts to 45 knots
- Seas 10 - 15 ft
- Mariners should alter plans to avoid these hazardous conditions.
- Remain in port, seek safe harbor, alter course, and/or secure the vessel for severe conditions.

Source: Bari, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Current Satellite View

Tropical Storm Francine



09 Sep 2024 10:01Z - NOAA/NESDIS/STAR - GOES-East - Sandwich Composite - GM

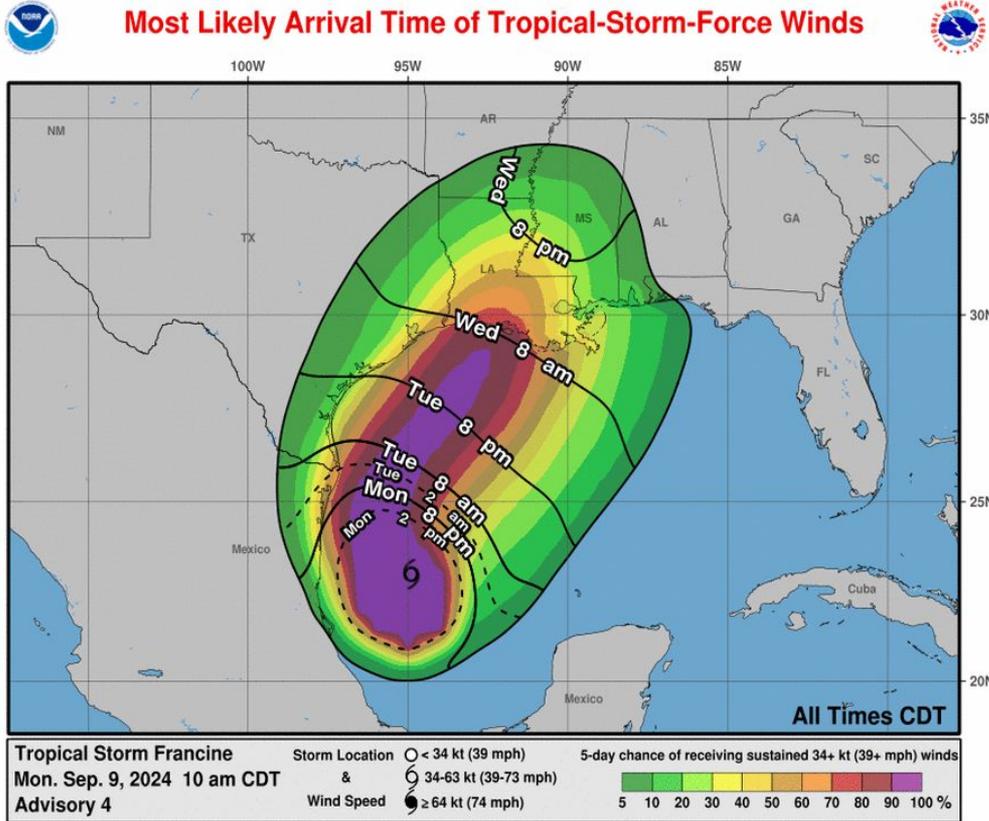
More organized satellite appearance with thunderstorms/convection blossoming around center of circulation.

Intensification to a hurricane is forecast over the next 24 to 48 hours.



Most Likely Time of Arrival

Tropical Storm Francine

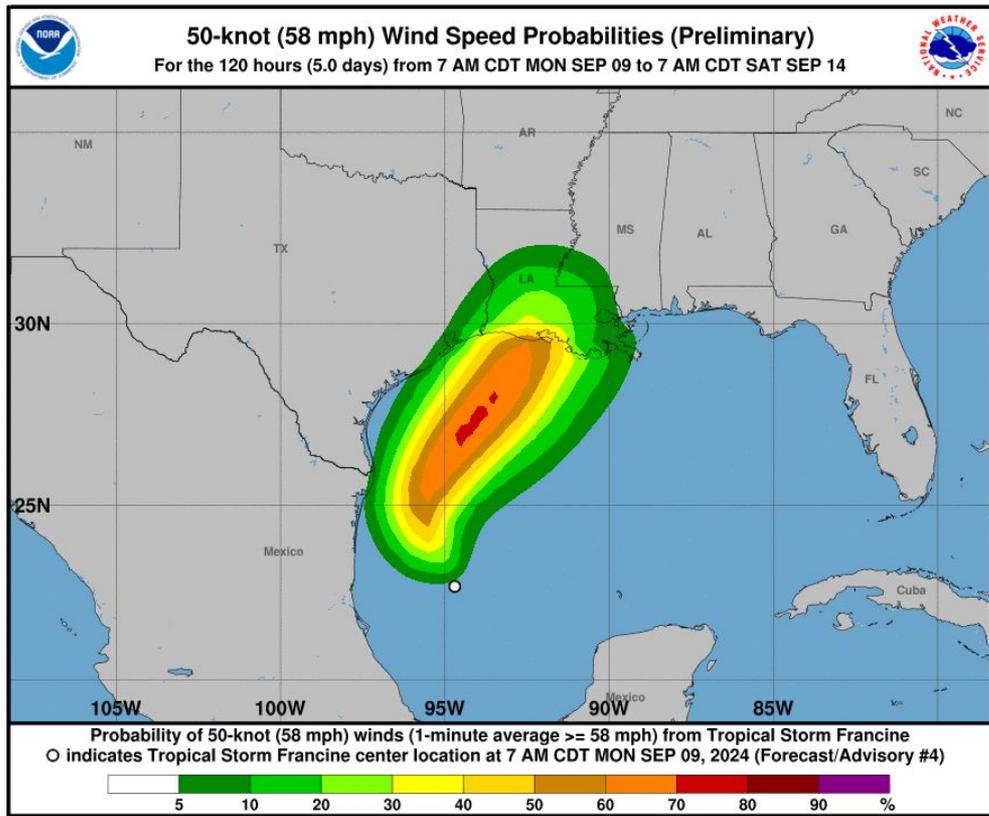


- The most likely time of arrival of Tropical Storm Force Winds Southeast Texas would be Tuesday night but, again, better chances of TS level winds should remain east of the area.



50 kt (58 mph) Wind Speed Probabilities

Tropical Storm Francine

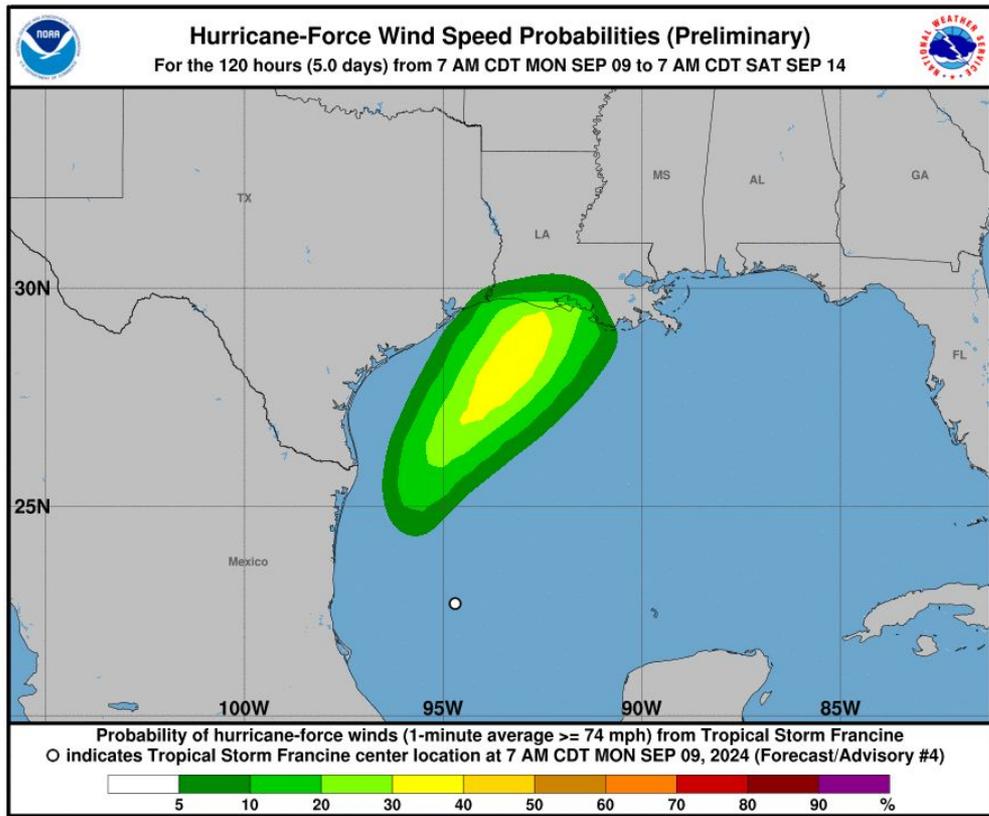


- Lower chances for sustained 58 mph winds. Focus more on far E Texas, coastal LA.
- This level wind we often associate with power outage threat.



Hurricane Wind Speed Probabilities

Tropical Storm Francine

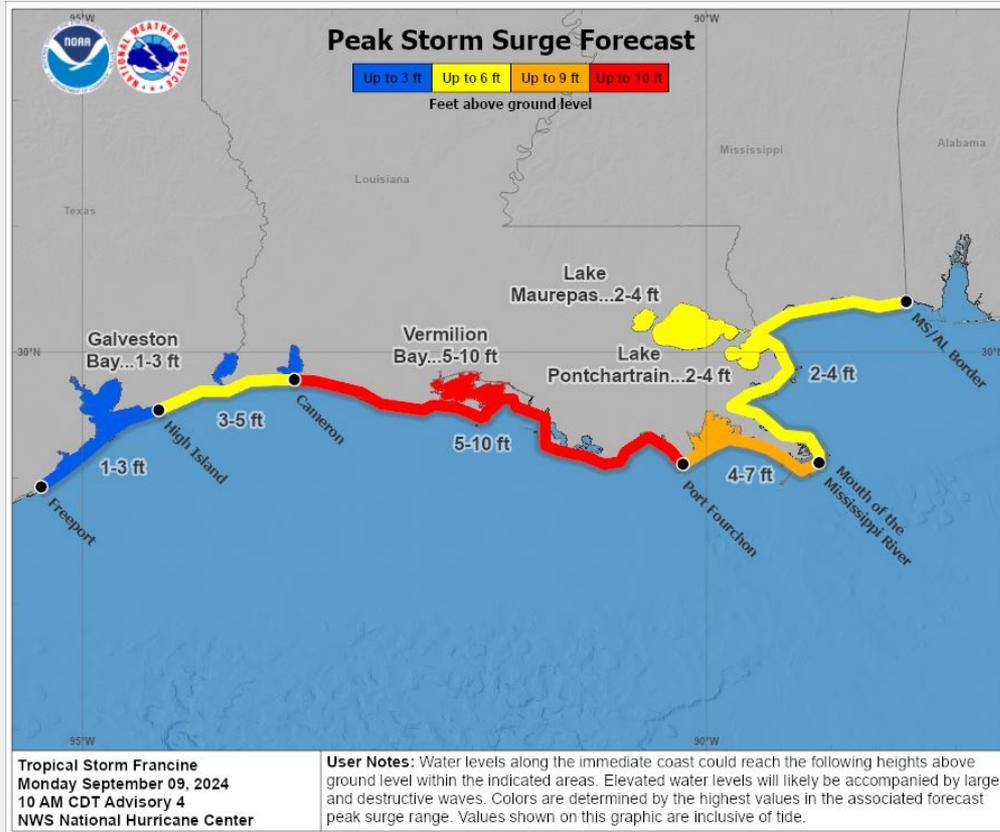


- The probability of hurricane-force winds over the coastal Gulf waters is now 5-20%.
- The probability for hurricane-force winds over Southeast Texas is less than 5% as of this morning.



Peak Storm Surge

Tropical Storm Francine



Locally 1 to 3 feet of storm surge (corresponding to water levels 4 to 5 feet above MLLW) expected from Freeport to High Island and including areas around Galveston Bay.

Coastal Flood Warning in effect for these areas.



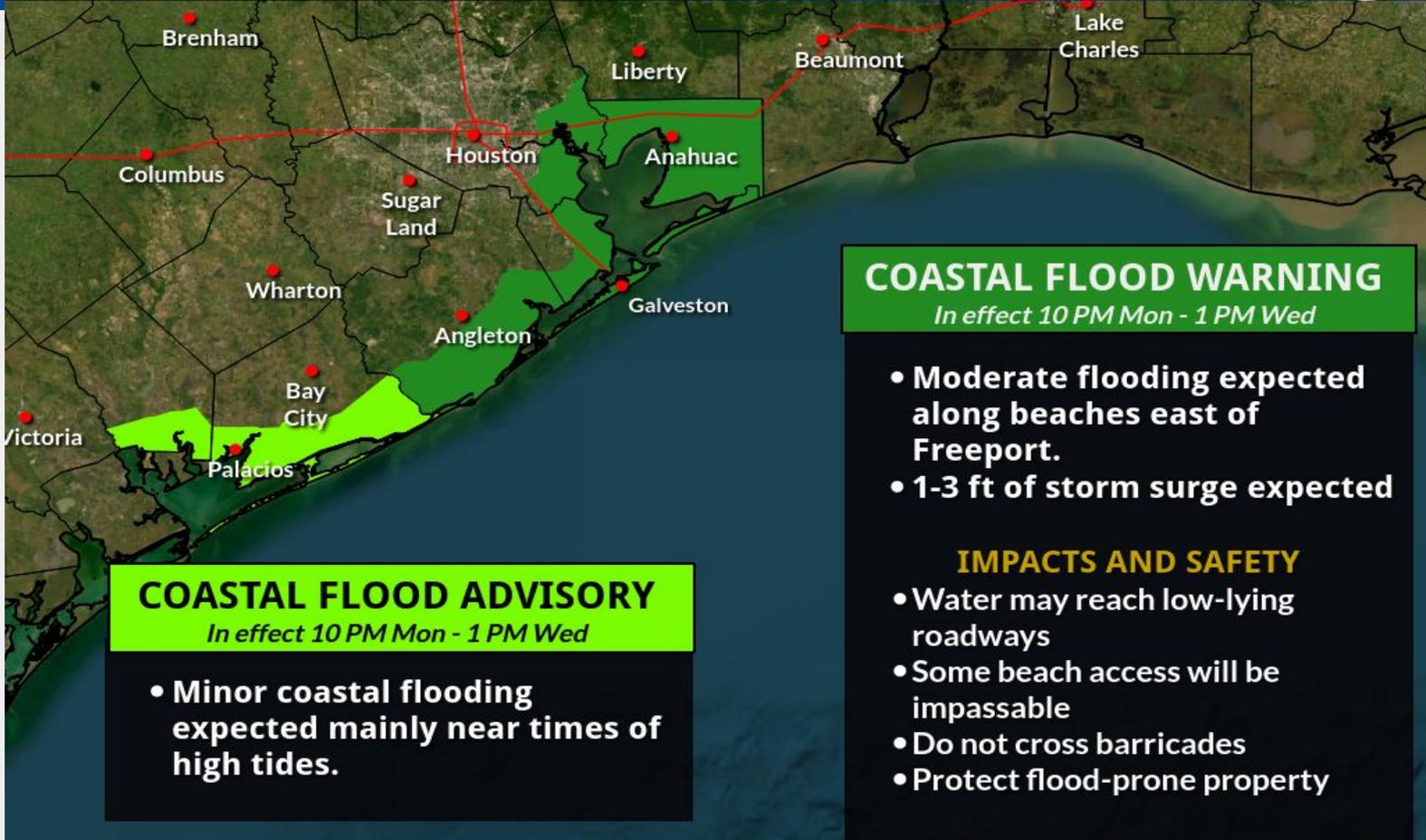
Coastal Flooding Hazards

Weather Forecast Office
Houston/Galveston TX



Beach roads may flood | Do not cross barricades | Protect flood-prone property

Issued Sep 09, 2024 10:39 AM CDT



COASTAL FLOOD ADVISORY
In effect 10 PM Mon - 1 PM Wed

- Minor coastal flooding expected mainly near times of high tides.

COASTAL FLOOD WARNING
In effect 10 PM Mon - 1 PM Wed

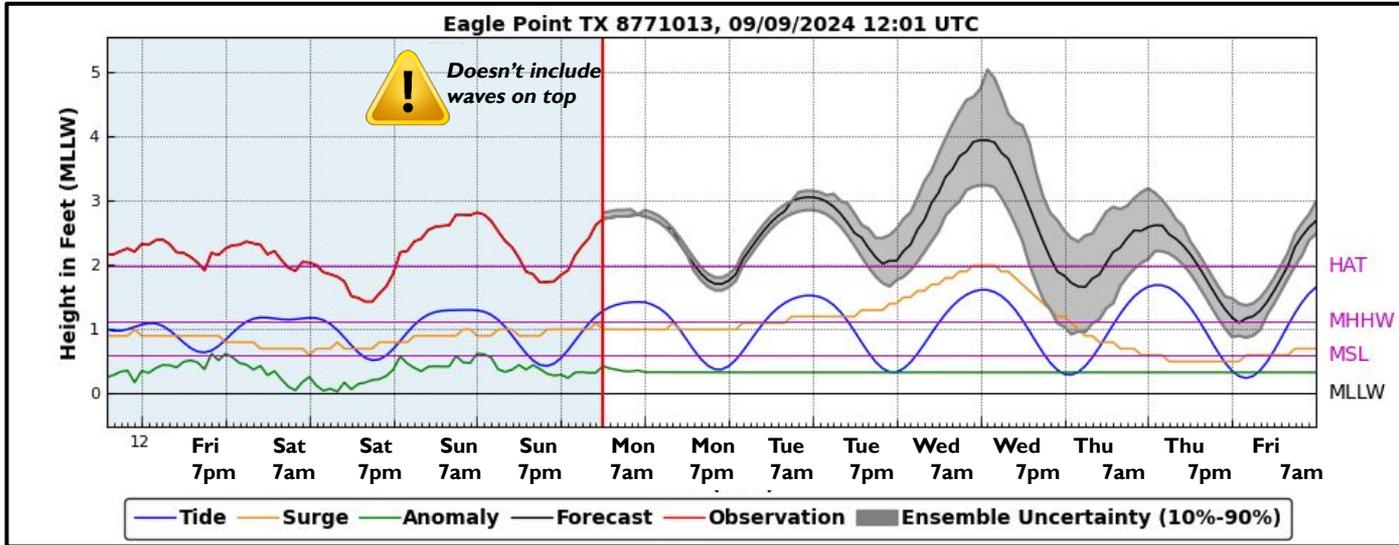
- Moderate flooding expected along beaches east of Freeport.
- 1-3 ft of storm surge expected

- IMPACTS AND SAFETY**
- Water may reach low-lying roadways
 - Some beach access will be impassable
 - Do not cross barricades
 - Protect flood-prone property

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Model Forecast Water Levels: Eagle Point



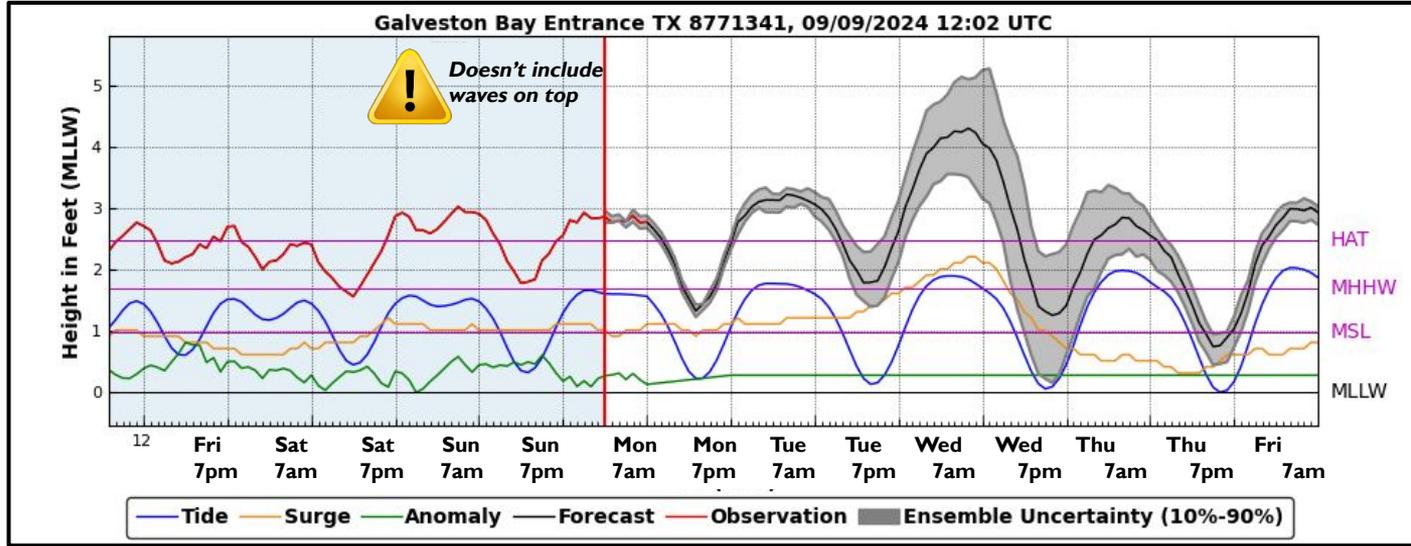
Key

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

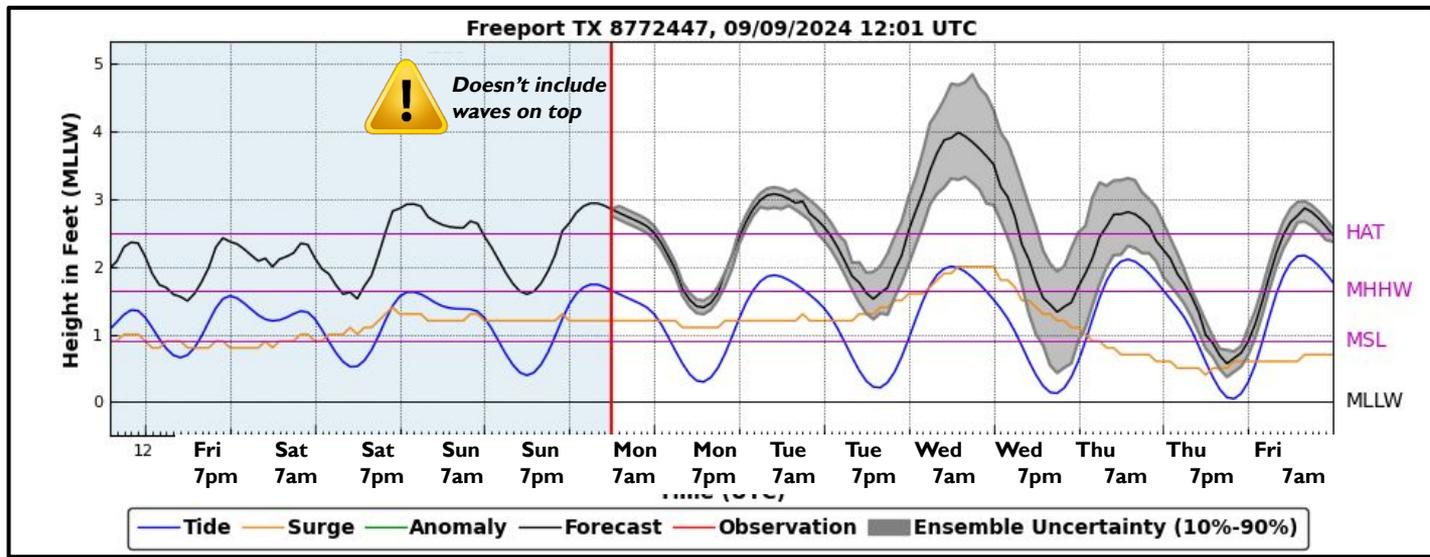


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LOCATION	3.5 FEET	3.7 FEET	4.0 FEET	4.5 FEET	5.0 FEET	5.5 FEET	6.0 FEET	6.5 FEET	7.5 FEET
Galveston and Bolivar Peninsula	Problem areas near Crystal Beach. Water may approach parts of Seawall. Lifeguard stands may need to be moved out of threat zones	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



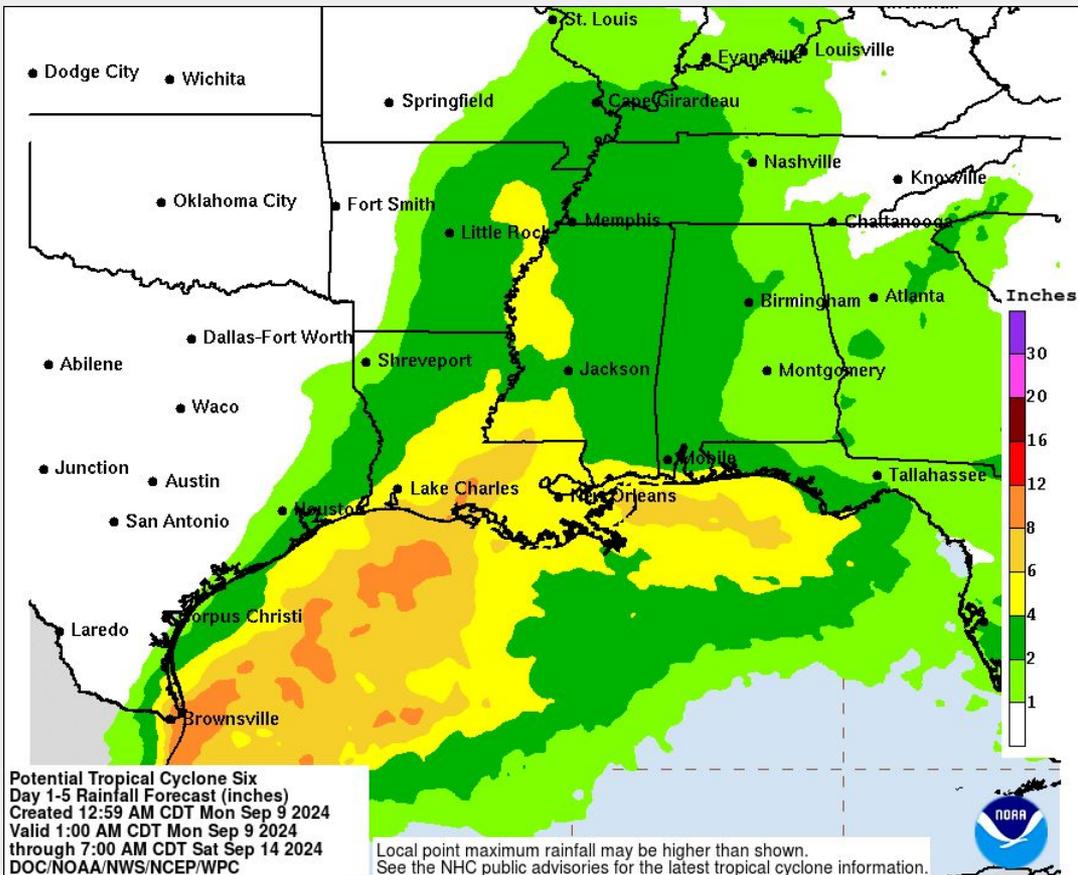
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LOCATION	3.7 FEET	4.0 FEET	4.5 FEET	5.0 FEET	5.5 FEET	6.0 FEET	6.5 FEET
Surfside	At 3.5 feet, with wave periods of greater than 10 seconds, expect wave runoff to flood beaches and overtop dunes and road embankment flooding over the Blue Water Highway.	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	



Expected Storm Total Rainfall

Tropical Storm Francine



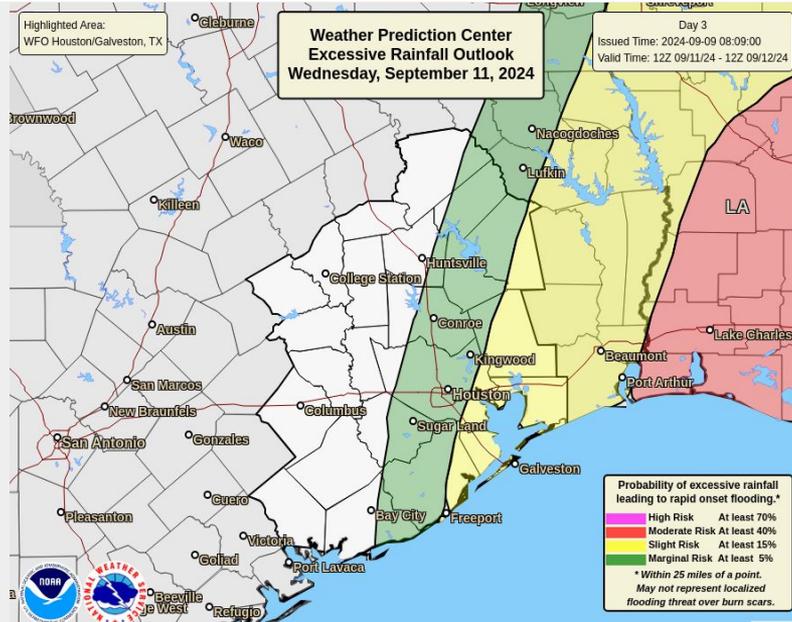
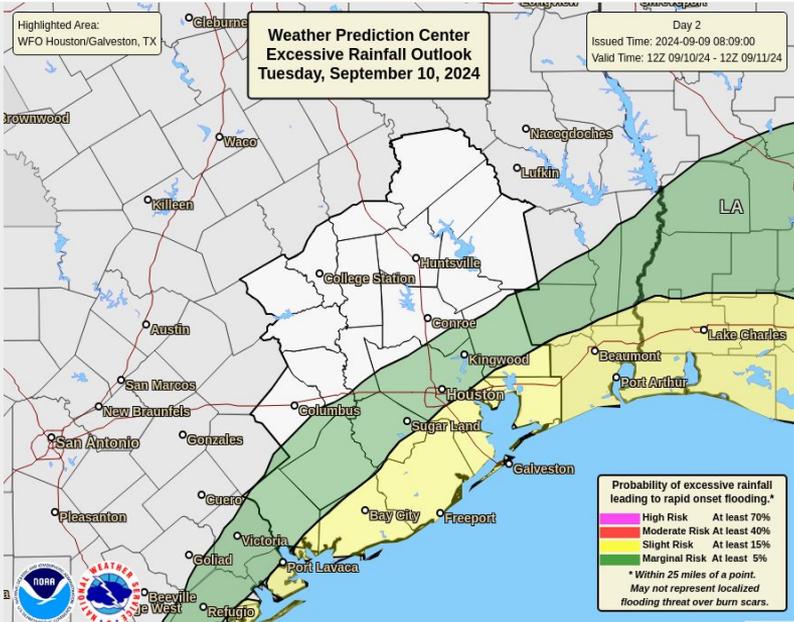
- Most likely rainfall outcome is presented here.
- Heaviest rains over the Gulf and into Louisiana, but could also impact the immediate coast.
- Lighter rain expected inland.
- Any deviation in track to the west could push heavier amounts closer to shore.



Excessive Rainfall Outlook

Tropical Storm Francine

- Areas outlined in yellow have the greatest potential for flash flooding on Tuesday and Wednesday.
- A yellow Slight Risk is the 2nd of 4 threat levels, and indicates greater than a 15% chance of seeing excessive rain capable of causing flash flooding.



Last updated: 9/9/2024 11:00 AM EDT

National Weather Service - Houston/Galveston, TX



Marine Impacts

Potential Tropical Cyclone Six

- Tropical Storm and/or Hurricane conditions likely across parts of the upper Texas coastal waters Tuesday night and Wednesday.
- Timeline:
 - Off the Galveston coast, conditions **deteriorate Tuesday night & peak during the day Wednesday**.
 - Onset of seas \geq 6 feet within 10 NM: around 11pm Tuesday night...peaking much higher Wednesday.
 - Onset of sustained 30kt winds within 10 NM: around sunrise Wednesday. Wind gusts $>$ 30kt possible in outer squalls prior to that.
- Plan for a **landfalling hurricane Wednesday afternoon or evening** somewhere between the TX/LA border and SE LA.
- Pay attention to the forecast cone...not the line itself. This is really important considering that this system is not well organized at the moment and can change quickly! If you are within the cone, there is still a risk of a direct hit. The center of circulation typically stays within the forecast cone 2/3 of the time.

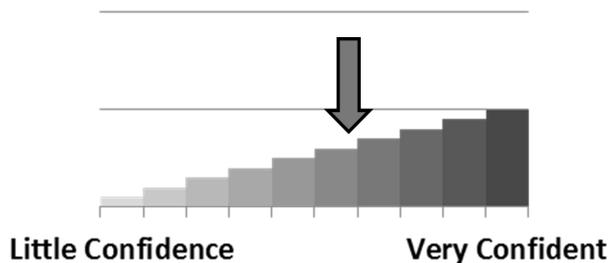


Key Take-Aways

Tropical Storm Francine

- PTC 6 is now Tropical Storm Francine.
- Forecast track has shifted eastward, suggesting lesser impacts for Southeast Texas, more direct, severe impacts for Louisiana.
- Coastal Flood Warning in effect starting Tuesday night for Gulf Coast north of Sargent and around Galveston Bay.
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- Have better confidence in track as center is getting better organized and track models in good agreement, but will need to continue to monitor.

Forecast Confidence



More confidence in the more eastward track scenario presented yesterday, with lesser impacts for Southeast Texas, more severe impacts for Louisiana.



Local Resources

Tropical Storm Francine

Next Briefing:
4:30 PM CT
Method: Webinar



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