



# Tropical Storm Harvey Navigation Restoration Briefing

10:30 AM CDT  
Thursday, August 24, 2017

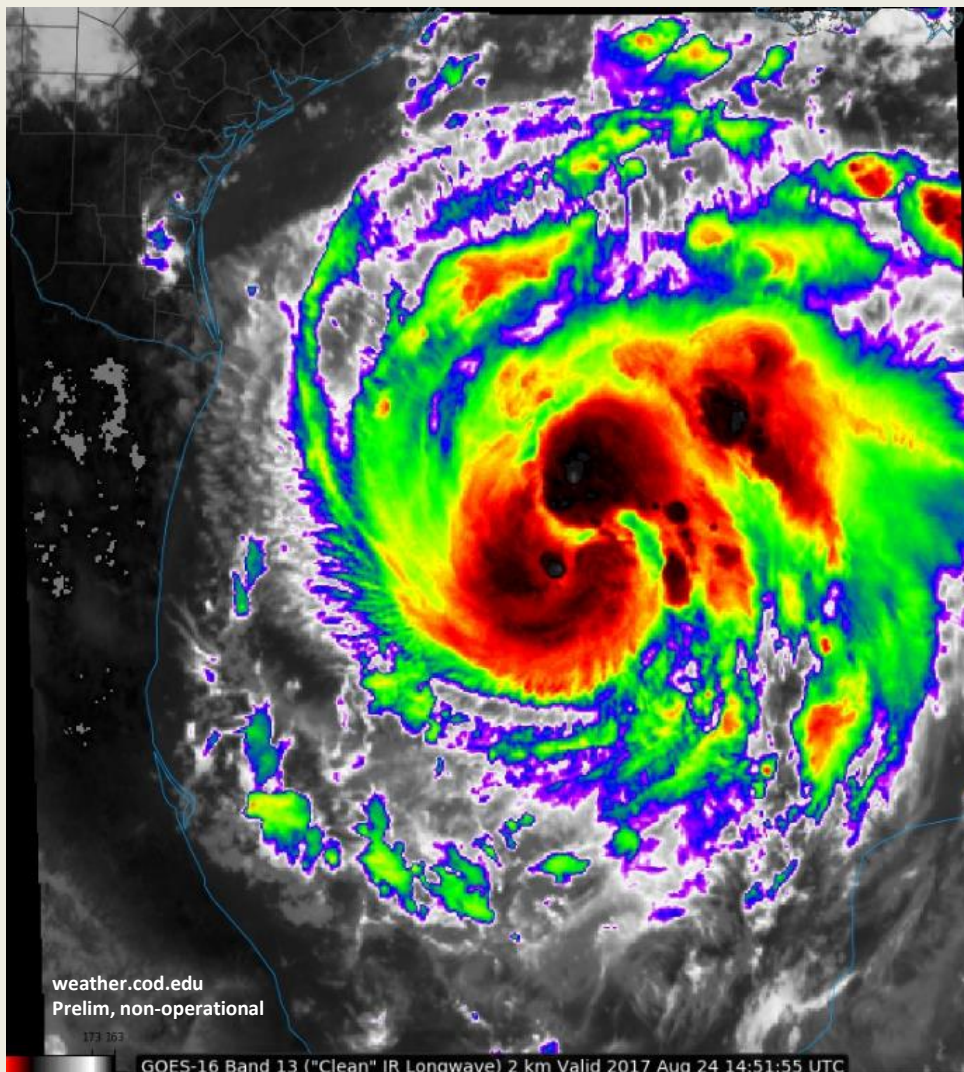
Prepared by:  
Brian Kyle





# Tropical Storm Harvey

National Weather Service Houston/Galveston



- Advisory Time:** 10 am CDT, 8/23/2017
- Position:** 24.0N 93.3W
- Winds:** 65 mph sustained w/ higher gusts
- Movement:** NNW 10 mph
- Comments:**
  - Forecast to move toward the middle Texas coast.
  - Move inland as major (cat 3) hurricane Fri night/Sat morning.**
  - TS force winds should begin reaching the TX coast Friday.
  - Building seas, higher tides, surge and surf.
  - Impacts will be felt well away from the center!**



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**Image 8/24/2017**  
**Created 10:47 AM**



# Official NHC Forecast

National Weather Service Houston/Galveston

### SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Warning is in effect for...

- \* Port Mansfield to San Luis Pass Texas

A Storm Surge Watch is in effect for...

- \* South of Port Mansfield Texas to the Mouth of the Rio Grande
- \* North of San Luis Pass to High Island Texas

A Hurricane Warning is in effect for...

- \* Port Mansfield to Matagorda Texas

A Tropical Storm Warning is in effect for...

- \* North of Matagorda to High Island Texas
- \* South of Port Mansfield Texas to the Mouth of the Rio Grande

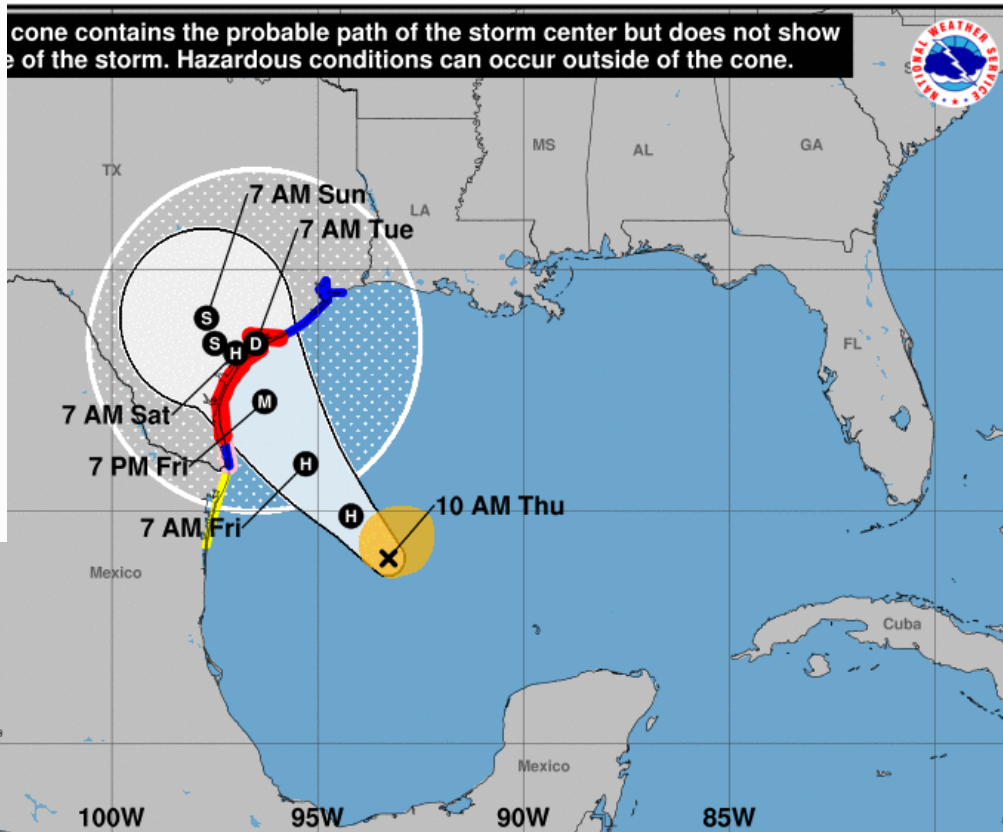
A Hurricane Watch is in effect for...

- \* South of Port Mansfield Texas to the Mouth of the Rio Grande

- **66% of the time the center of circulation remains within the cone.**

- **Impacts, however, can and WILL be felt outside of the cone!**

The cone contains the probable path of the storm center but does not show the location of the storm. Hazardous conditions can occur outside of the cone.

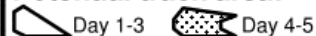


**Tropical Storm Harvey**  
 Thursday August 24, 2017  
 10 AM CDT Advisory 16  
 NWS National Hurricane Center

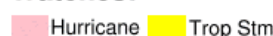
**Current information: X**  
 Center location 24.0 N 93.3 W  
 Maximum sustained wind 65 mph  
 Movement NNW at 10 mph

**Forecast positions:**  
 ● Tropical Cyclone ○ Post/Potential TC  
 Sustained winds: D < 39 mph  
 S 39-73 mph H 74-110 mph M > 110 mph

**Potential track area:**



**Watches:**



**Warnings:**



**Current wind extent:**



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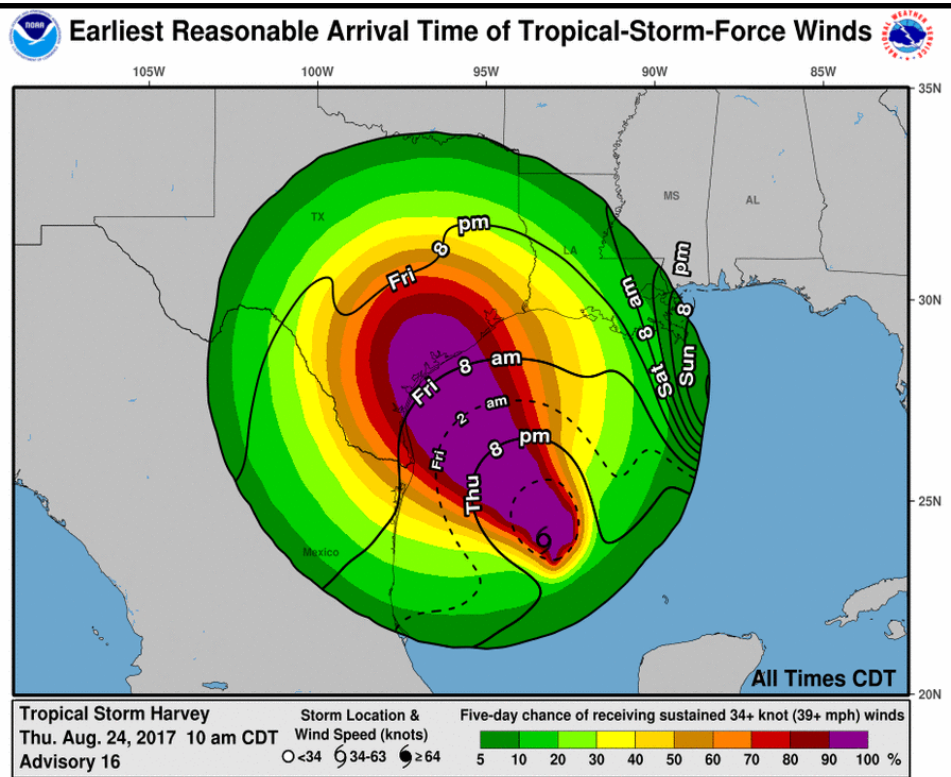
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**Created 10:47 AM**



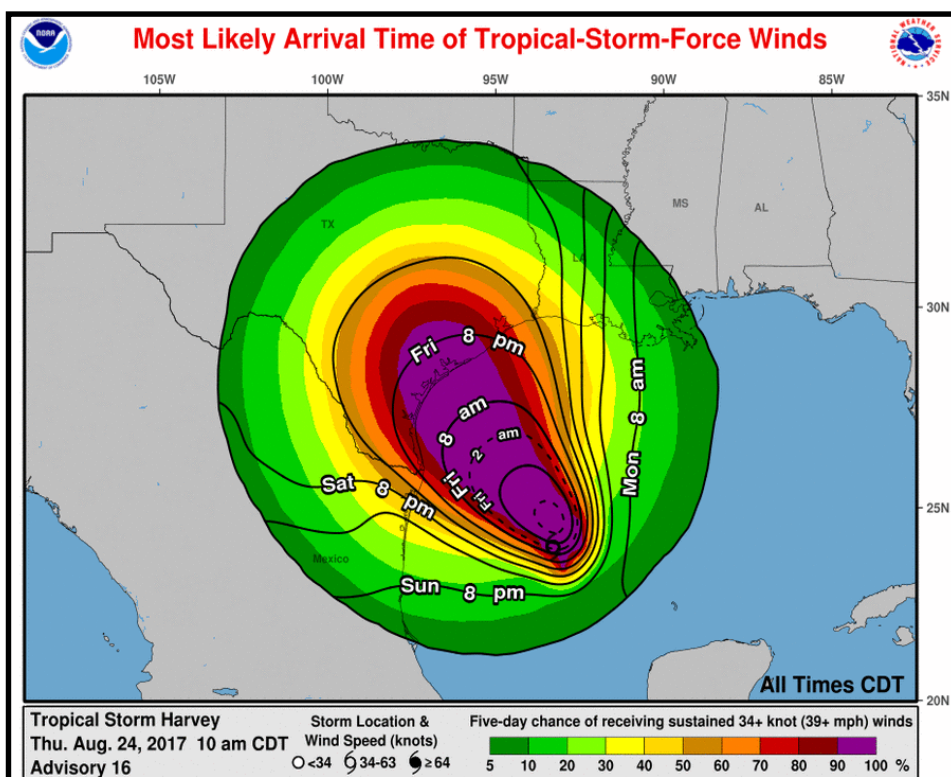


# Experimental NHC Time of Arrival Forecasts

National Weather Service Houston/Galveston



This the time before which there is no more than a 1-in-10 (10 percent) chance of seeing the onset of sustained tropical storm force winds.



This identifies the time before or after which the onset of tropical-storm-force winds is equally likely.



# Marine, Coastal Issues

National Weather Service Houston/Galveston

## Potential hazard timing along the Texas coast

### Seas

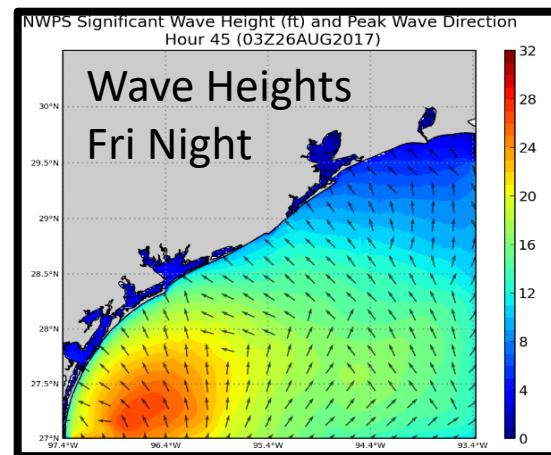
- Higher period swell begins showing today. Seas build through the day.
- Onset of seas > 7 feet within 20 NM (higher offshore): **Tonight.**

### Winds

- Onset of sustained tropical storm / gale force winds within 20 NM: **Friday**
- Onset of hurricane force winds within 20 NM: **Friday night**

### Coastal flooding , surge & tides

- Onset of coastal flooding risk due to tide, surge & surf: **Friday**
- Reasonable worst case storm surge (based on current forecast): **6-10 foot** inundation near landfall (**Padre Natl Seashore to Sargent**) , tapering to **2-4 feet** away from the center extreme north and south.



Port Status WHISKEY. Normally set when gale force winds are expected to arrive at the port within 72 hours.

Port Status X-RAY. Normally set when gale force winds are expected to arrive at the port within 48 hours.

Port Status Yankee. Normally set when gale force winds are expected to arrive at the port within 24 hours.

Port Status ZULU. Normally set when gale force winds are expected to arrive at the port within 12 hours.



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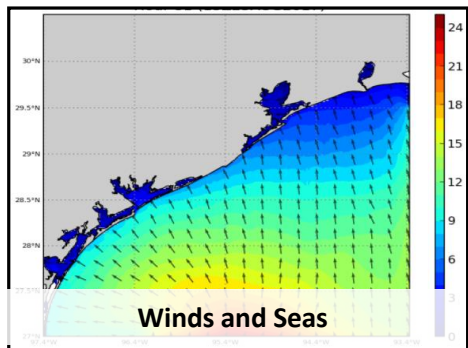
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# Summary of Marine Impacts

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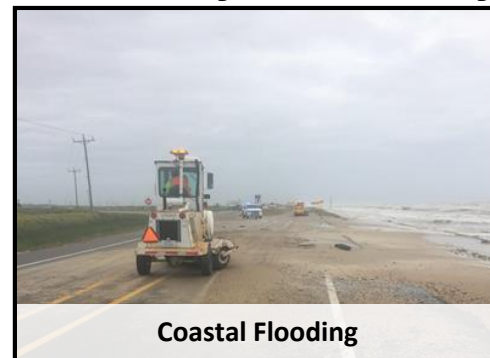
## Deteriorating marine conditions expected. Tropical Storm and/or Hurricane conditions affecting the Texas coastline Friday-Saturday.



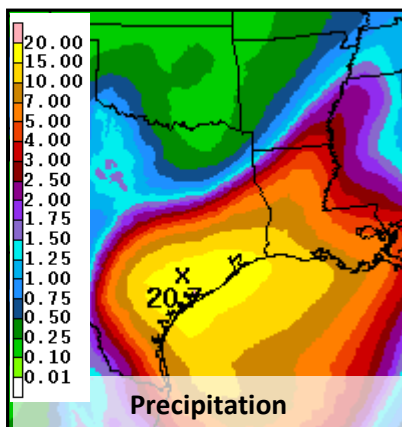
- TS force winds approaching the TX coast Friday. Seas with 20 NM of shore increasing to > 7ft tonight. Seas >20ft near center.



- Large surf.
- Strong rip currents.
- Beach erosion.



- Coastal flood risk as early as Friday.
- 6-10 feet inundation near landfall.
- 2-4 feet inundation extreme north/south



- Periods of rain/storms.
- Tornadoes possible in spiral bands mainly on the right side of the track
- Prolonged heavy/flooding rain a good possibility. Spans several days.
- Potential river flooding and elevated water levels into early next week.



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