



# Tropical Depression Harvey

2:00 PM CDT  
Wednesday, August 23, 2017

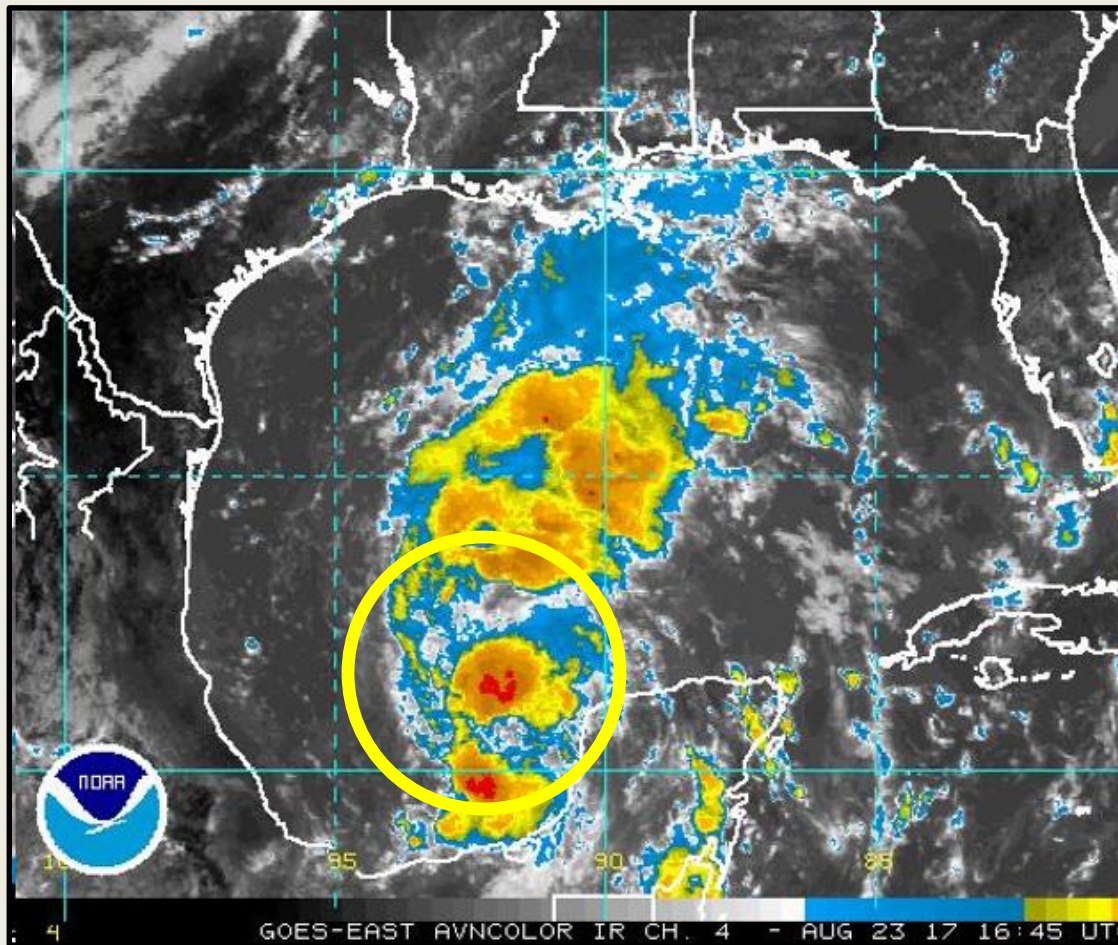
Prepared by:  
Molly Merrifield





# Tropical Depression Harvey

National Weather Service Houston/Galveston



- Advisory Time:** 1 pm CDT, 8/23/2017
- Position:** 21.5N 92.5W
- Winds:** 35 mph sustained w/ higher gusts
- Movement:** currently stationary. A general NW movement is expected.
- Comments:**
  - Forecast to move toward the Texas coast.
  - TS force winds should begin reaching the upper TX coast Friday.
  - Building seas, higher tides, surge and surf.
  - Do not focus just on the center – impacts will be felt well away from the center!**



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# Official NHC Forecast

National Weather Service Houston/Galveston



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



### SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Watch is in effect for...

- \* Port Mansfield to High Island

A Hurricane Watch is in effect for...

- \* North of Port Mansfield to San Luis Pass

A Tropical Storm Watch is in effect for...

- \* Boca De Catan Mexico to Port Mansfield Texas
- \* North of San Luis Pass to High Island

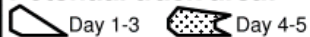


**Tropical Depression Harvey**  
 Wednesday August 23, 2017  
 1 PM CDT Intermediate Advisory 12A  
 NWS National Hurricane Center

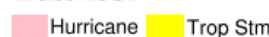
**Current information: X**  
 Center location 21.5 N 92.5 W  
 Maximum sustained wind 35 mph  
 Movement: Stationary

**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:**



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

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



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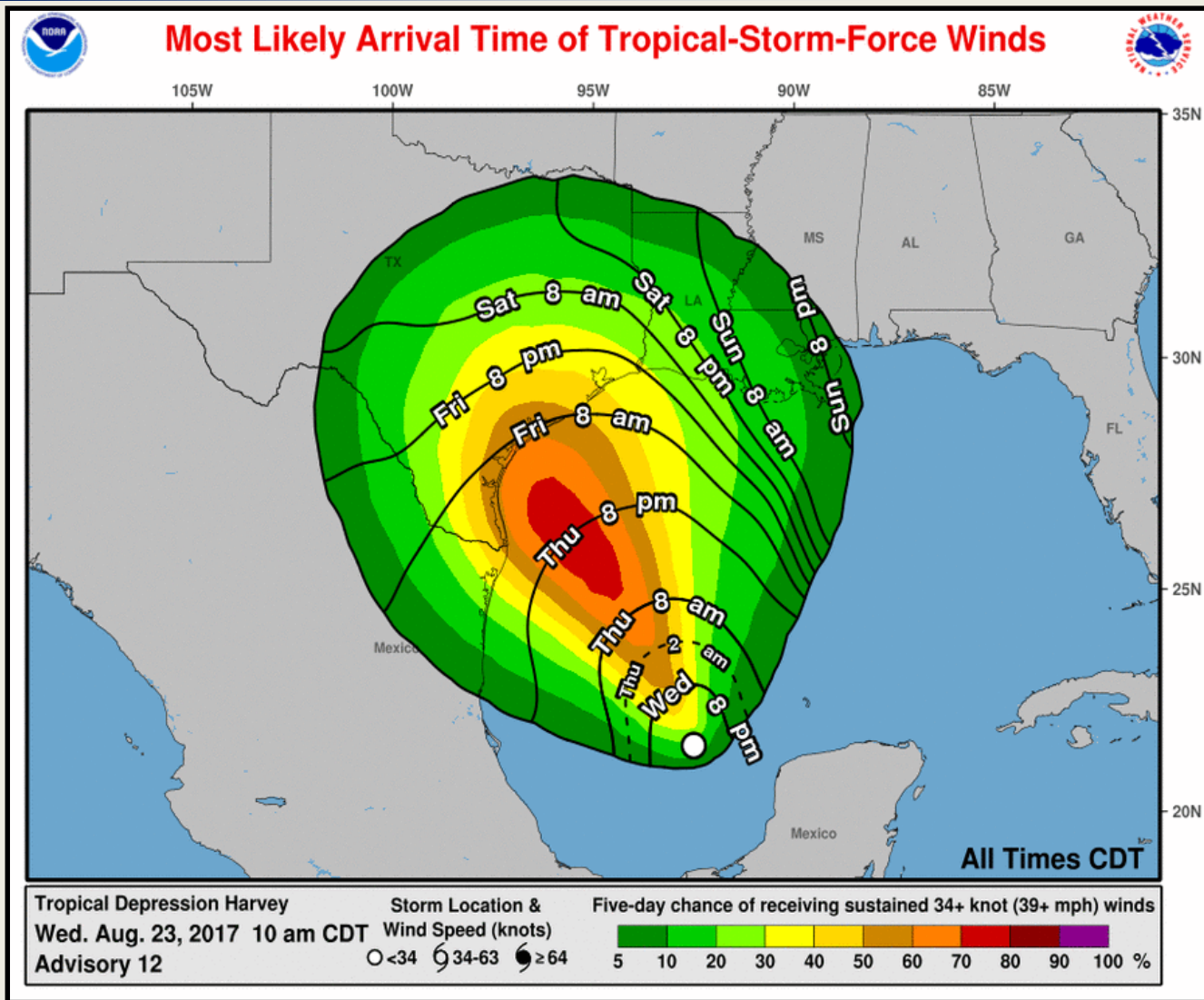
**Image 8/23/2017**  
**Created 1:44 PM**



# Experimental NHC Time of Arrival Forecasts

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



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# Potential Hazard Timing

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## Potential hazard timing along the Texas coast

### Seas

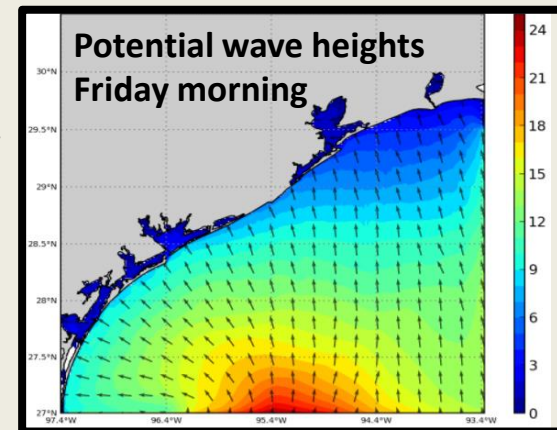
- Higher period swell begins showing Thursday. Seas build through the day.
- Onset of seas > 7 feet within 20 NM (higher offshore): **Thursday night**.

### Winds

- Onset of sustained tropical storm / gale force winds within 20 NM: **Friday**
- Onset of hurricane force winds within 20 NM: **Friday evening (possibly)**

### Coastal flooding , surge & tides

- Onset of coastal flooding risk due to tide, surge & surf: **Thursday night**
- Reasonable worst cast storm surge (based on current forecast): **4-6 foot inundation near landfall, 2-4 feet either side.**



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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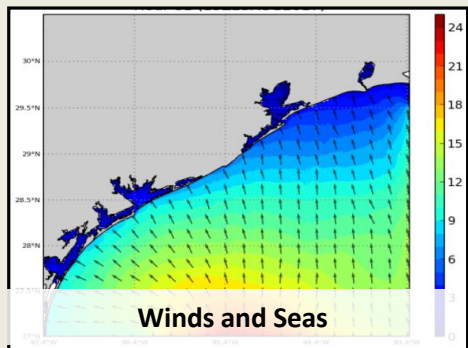
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# Summary

National Weather Service Houston/Galveston

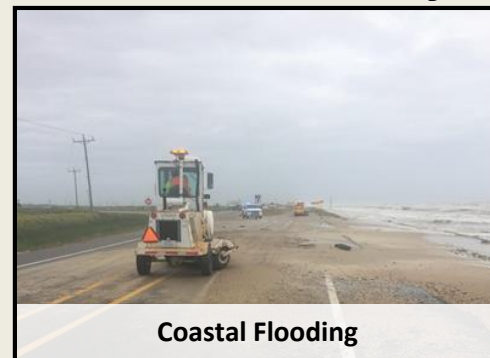
## Deteriorating marine conditions as early as Thursday. Potential tropical storm or hurricane affecting the Texas coastline Friday.



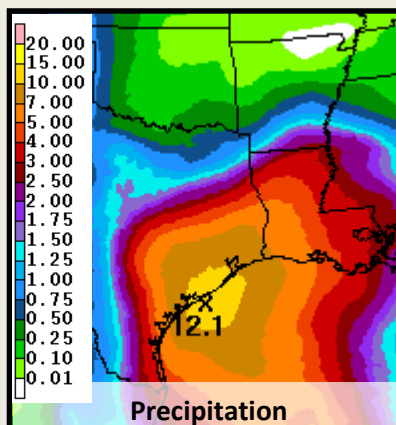
- TS force winds approaching the TX coast toward Friday. Seas with 20 NM of shore increasing to > 7ft by Thursday night.



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



- Coastal flood risk as early as Thursday night.
- 4-6 feet inundation near landfall.
- 2-4 feet inundation either side.



- Periods of rain/storms Thurs-Sun as the system slows down.
- Prolonged heavy/flooding rain a good possibility.
- River flooding and elevated water levels through the weekend.



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