

College of DuPage NEXLAB

Pre-Tropical Cyclone Three Briefing (To Become Cindy??)

June 20th, 10 am Update

Dan Reilly

National Weather Service Houston/Galveston

NOAA's GOES-16 satellite has not been declared operational
GOES-16 Band 03 (Visible - Red) 0.5 km Valid 2017 Jun 20 14:07:10 UTC



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Overview

National Weather Service Houston/Galveston

- Forecast track has shifted westward overnight
- Tropical Storm Watches now from San Luis Pass to High Island, TS Warnings from High Island east across Louisiana Coast
- Tropical Storm Watch includes Chambers, Galveston, Harris and Liberty Counties, Galveston Bay and adjacent coastal waters
- Expected impacts: locally heavy rain and gusty winds mainly east of track
- System currently with max winds 40 mph, not expected to intensify much



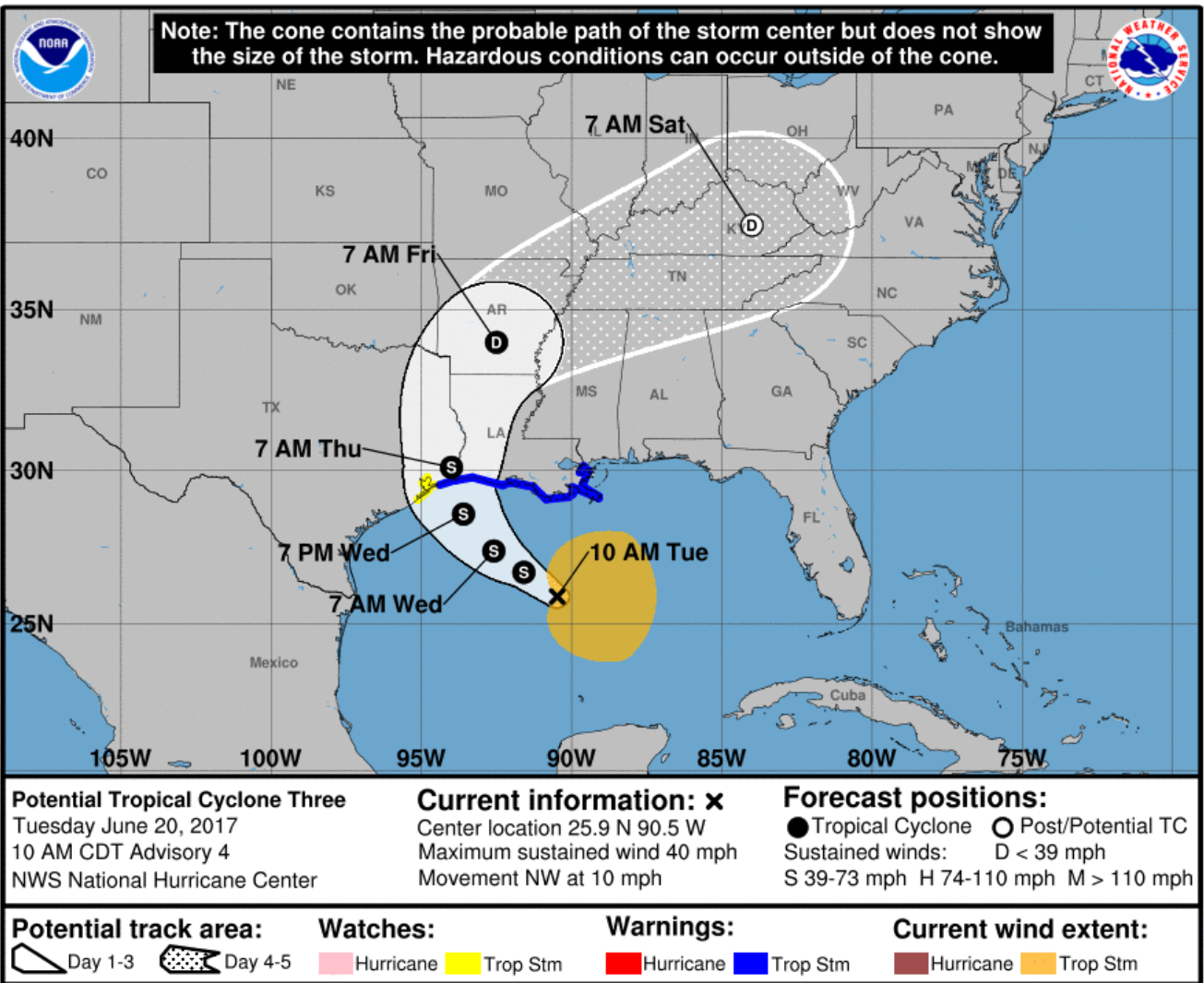
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Forecast Cone/Warnings

National Weather Service Houston/Galveston



- Forecast track has shifted slightly west
- Tropical Storm Watch now from San Luis Pass to High Island
- TS Warning E of High Island across LA.



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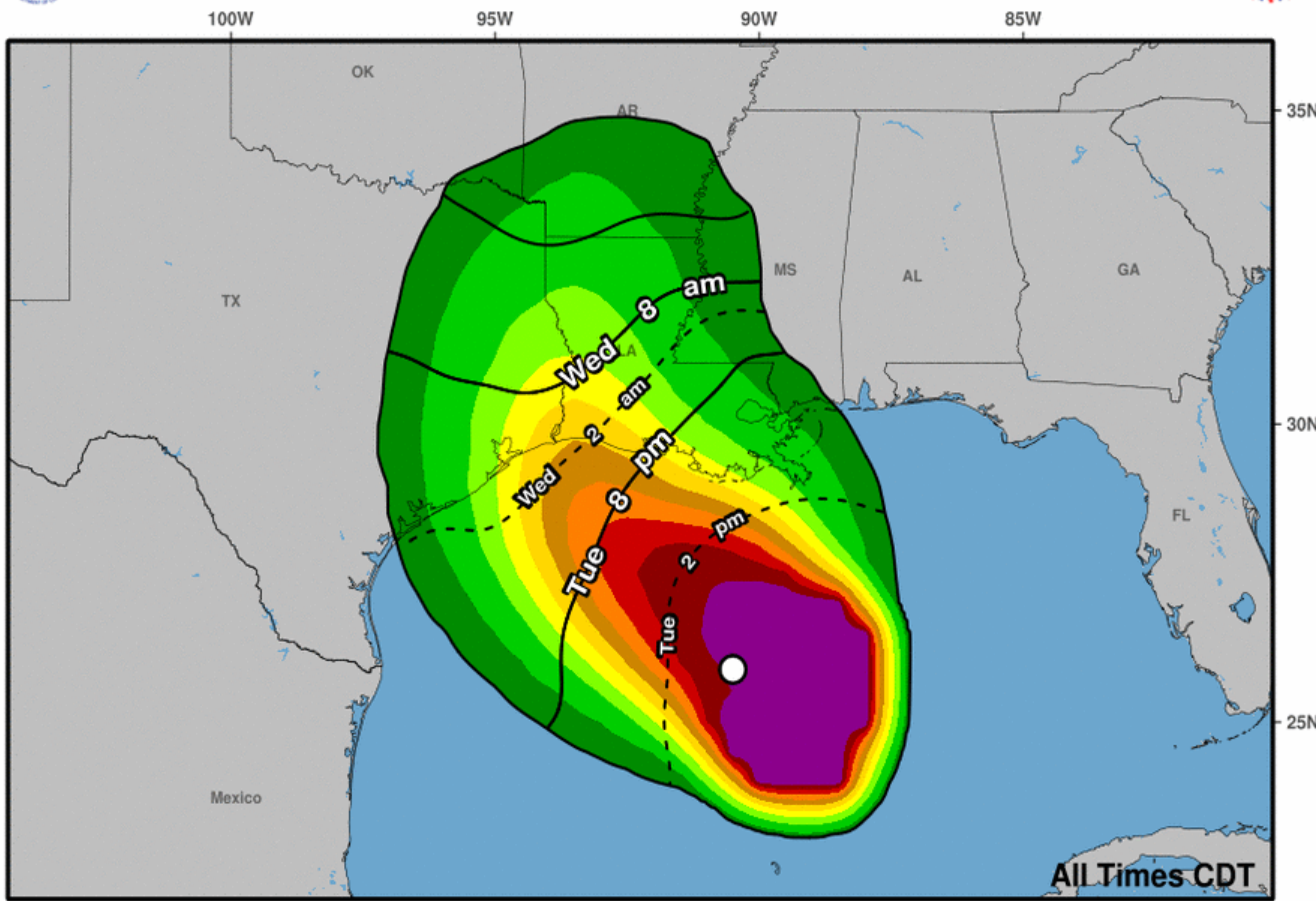
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Earliest Reasonable Arrival of TS Winds

National Weather Service Houston/Galveston

Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Potential Tropical Cyclone Three
 Tue. Jun. 20, 2017 10 am CDT
 Advisory 4

Storm Location & Wind Speed (knots)
 ○ <34 ◐ 34-63 ● ≥64

Five-day chance of receiving sustained 34+ knot (39+ mph) winds
 5 10 20 30 40 50 60 70 80 90 100 %

Based on different scenarios, TS force winds could arrive as early as early Wednesday morning



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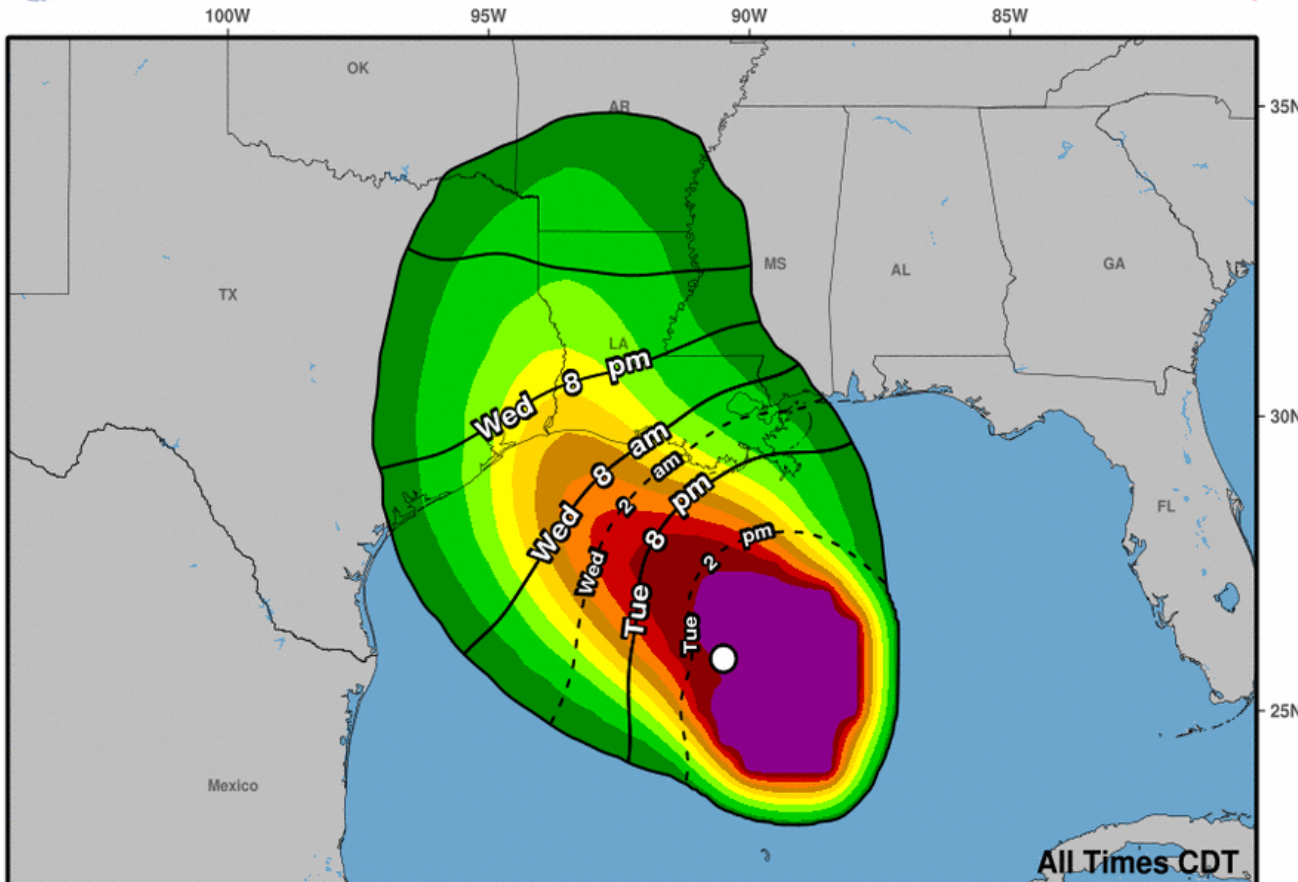


Most Likely Arrival Time of TS Winds

National Weather Service Houston/Galveston



Most Likely Arrival Time of Tropical-Storm-Force Winds



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Based on different scenarios, most likely arrival time of TS force winds during day Wednesday afternoon or evening



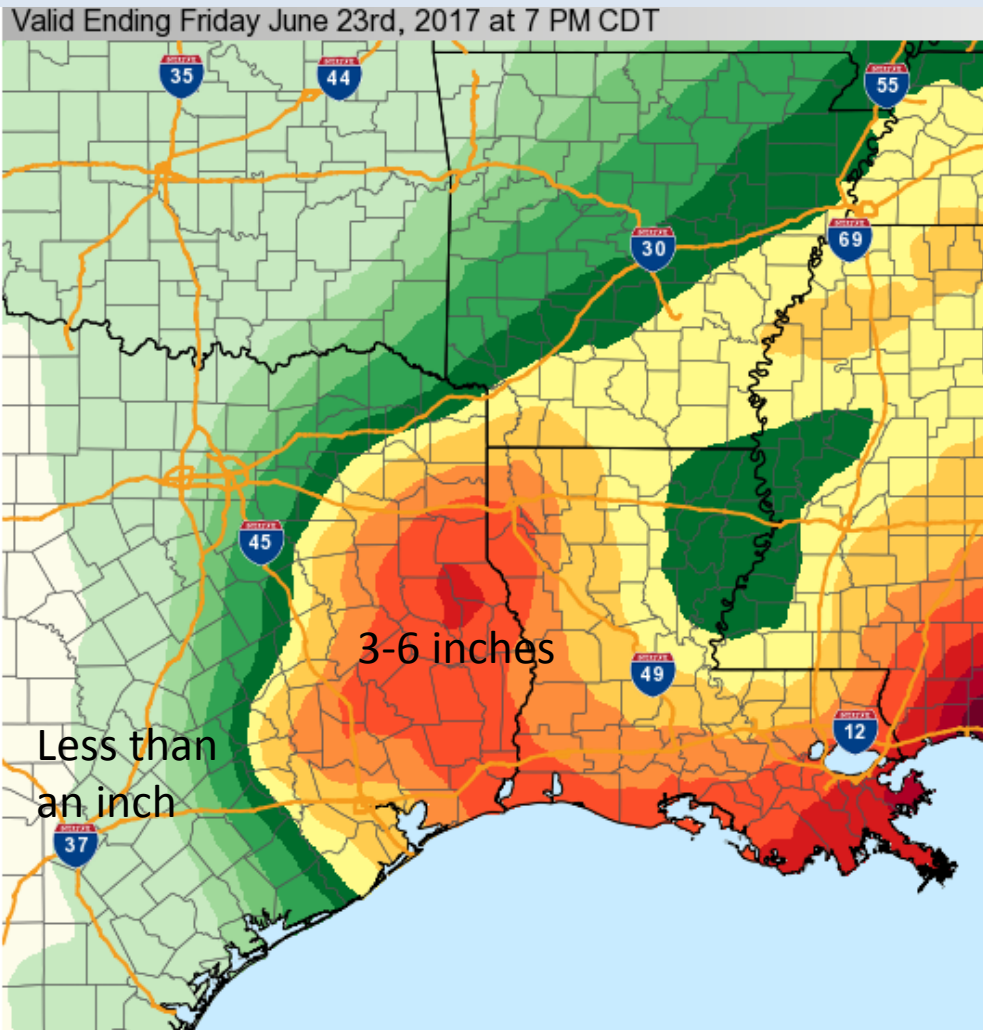
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Forecast Rainfall (Track Dependent)

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Will highly depend on track; rainfall 3 to 6 inches mainly east of the track, much lesser amounts west of track (sharp gradient)

Graphic Created
June 20th, 2017
9:32 AM CDT



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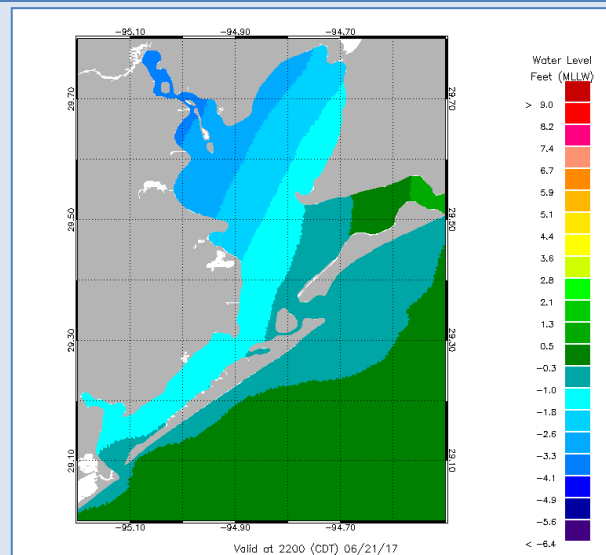
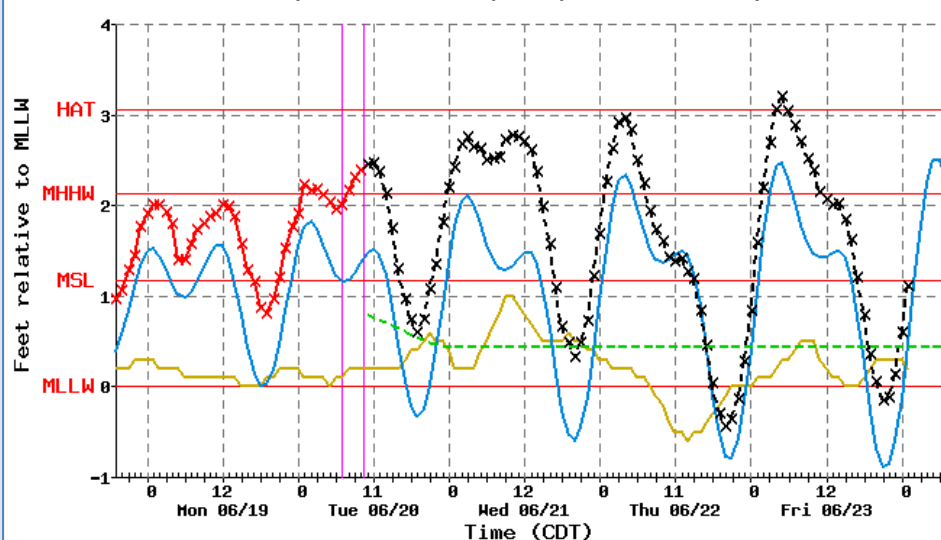


Storm Surge, Tides

National Weather Service Houston/Galveston

Surge Guidance Tide Prediction Observation Anomaly (Obs. - (Tide + Surge)) Total Water Guidance

Galveston, Pleasure Pier, TX : 06/20/2017 10:19 AM CDT



Surge & Tides

- HIGHLY UNCERTAIN!**
- Dependent on whether we end up on the east or west side of the disturbance.
- Areas east of center track could see surge 1 to 2 feet, water levels 4 to 5 feet above MLLW
- Water rise starting Wed afternoon
- Areas west of track could receive lower tides, low water conditions possibly

East side: water possibly

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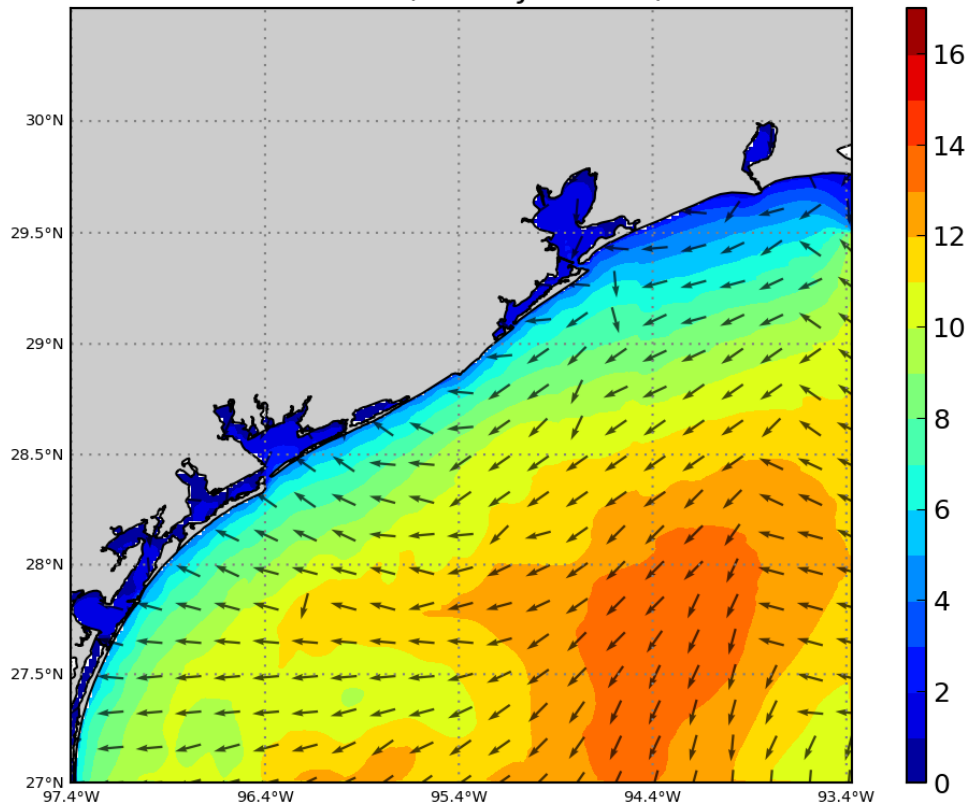


Potential Tropical Cyclone Three

National Weather Service Houston/Galveston



NWPS Significant Wave Height (ft) and Peak Wave Direction
Hour 33 (15Z21JUN2017)



Seas

☐ Increasing to
=>7 feet within
20 NM by
**Wednesday
morning**



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