

IMPACTS FOR D8 (through next 5 days)

Winds – Medium

Storm Surge – Medium

Rainfall/Flash Flooding – High

Tornadoes – None

Waves - Medium

Tropical Depression Adam BRIEFING

9:00 AM CDT

Monday, April 18, 2022

Prepared by:

TAFB FORECASTER

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

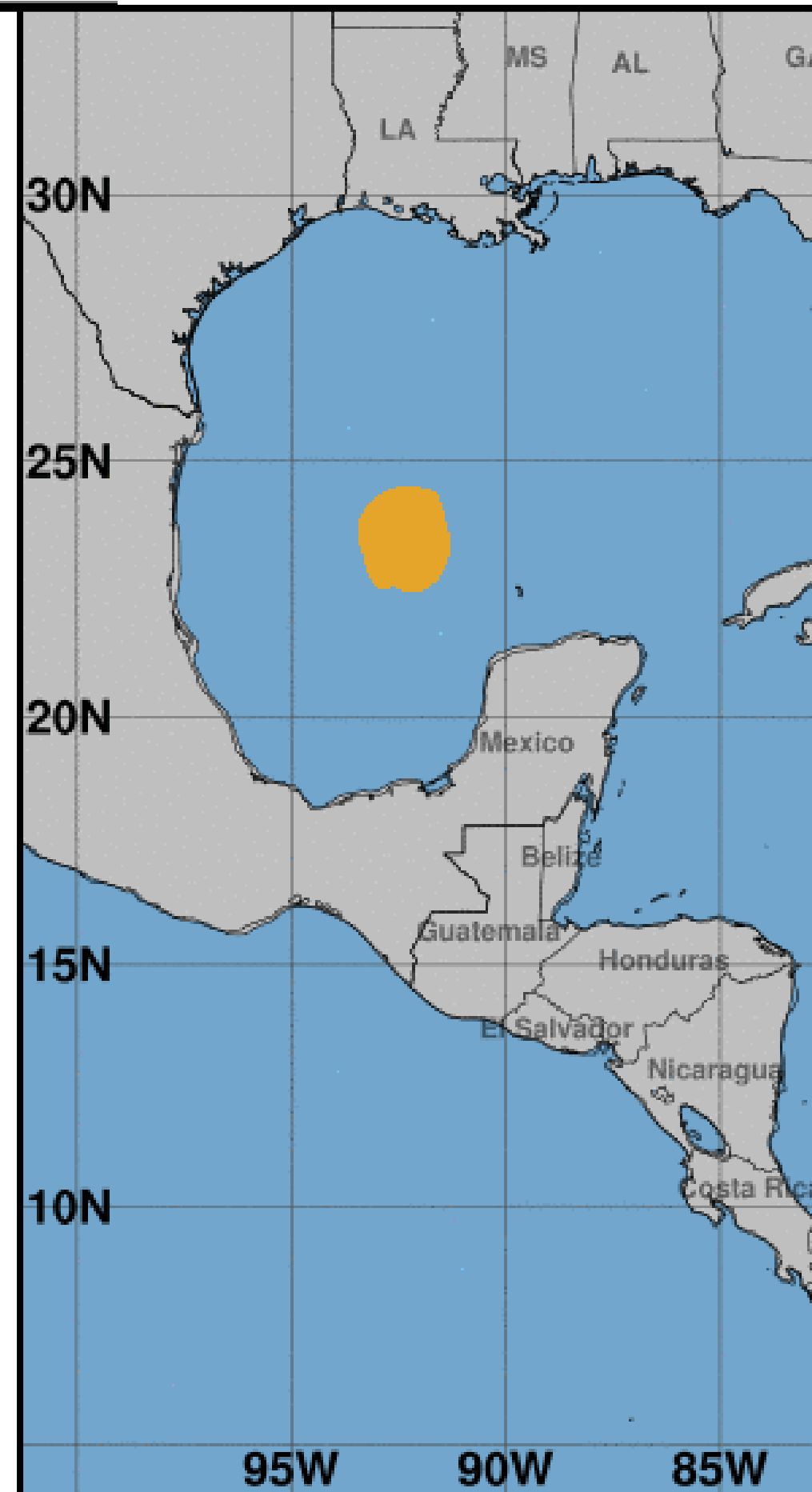


Situation Overview

Tropical Depression Adam



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...HARVEY BECOMES A TROPICAL DEPRESSION...

...HURRICANE AND STORM SURGE WATCHES ISSUED FOR PORTIONS OF THE TEXAS COAST...

Summary of 1000 AM CDT Information

Location...21.5N 92.5W

About 465 nm SSE of Port O'Connor, Texas

About 400 nm SE of Port Mansfield, Texas

Maximum Sustained Winds...30 kt

Present Movement...NW at 10 kt

Minimum Central Pressure...1006 MB

Peak Seas: 10 ft

Forecast Information

Tropical Depression Adam



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

- **Adam is expected to strengthen into a Tropical Storm later today as it continues moving WNW**
- **Adam has the potential to make landfall as a hurricane sometime on Wednesday night**
- **As Adam moves inland, it will stay a tropical storm as it turns ENE and moves across Southeast Texas and Louisiana**
- Current center forecast positions through the next 5 days illustrated by dots
- White swath is potential track error through day 3
- Hatched swath is potential track error on days 4-5

** Swaths are designed so the actual track will occur inside the cone two-thirds of the time. One-third of the time, the center will track outside the cone.

T.S. Wind Speed Probabilities

Tropical Depression Adam



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- **Brownsville - 55%**
- **Corpus Christi - 60%**
- **Port O'Connor - 55%**
- Galveston - 40%
- Port Arthur - 30%
- Lake Charles - 20%

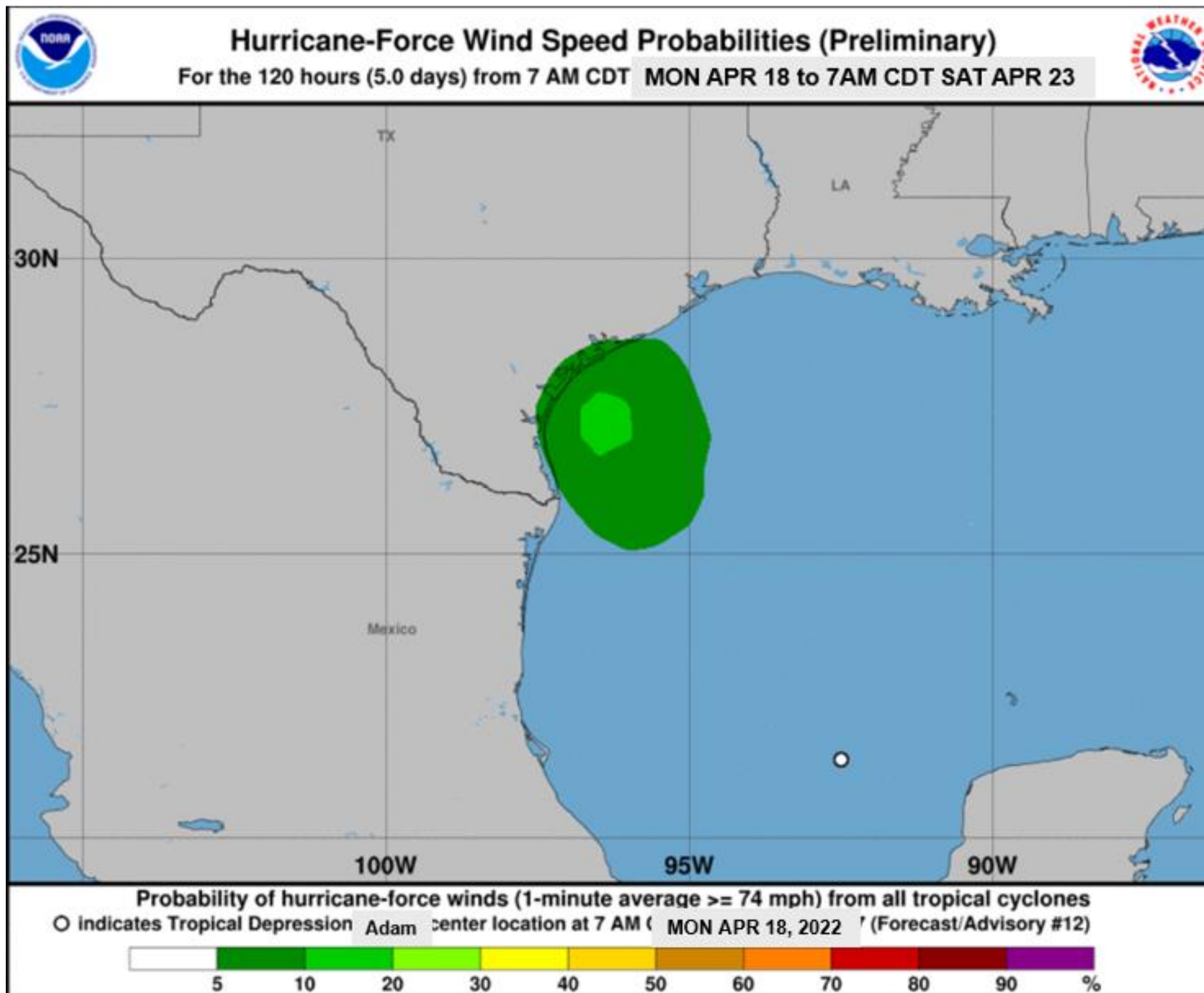
Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.

Hurricane Wind Speed Probabilities

Tropical Depression Adam



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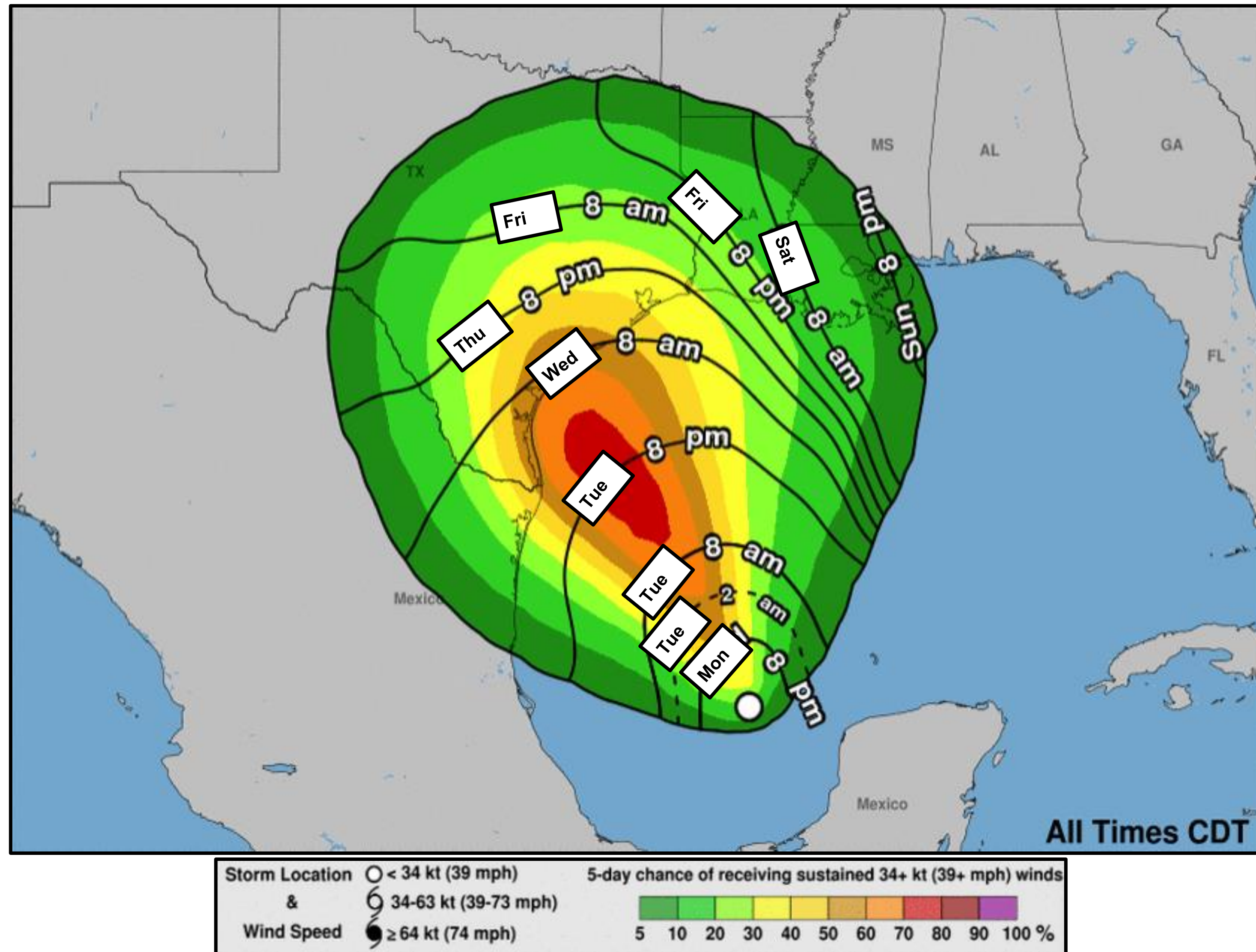


- Brownsville - 5%
- **Corpus Christi - 10%**
- Port O'Connor - 5%
- Galveston - 0%
- Port Arthur - 0%
- Lake Charles - 0%

Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.



Tropical Depression Adam



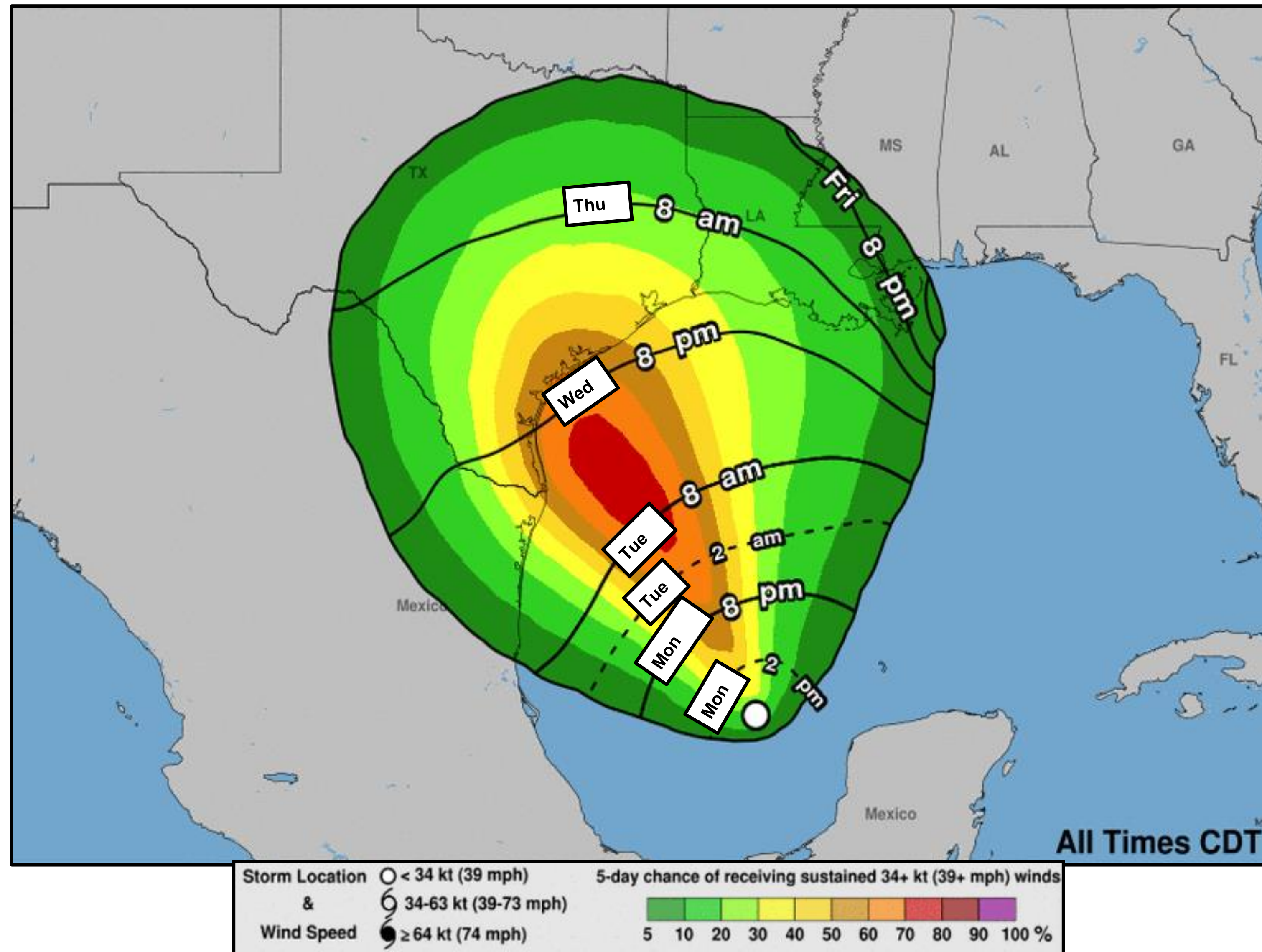
- Tropical Storm force winds could begin along the South Texas coast as early as **Wednesday morning**
- The earliest reasonable time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.

Most Likely Time of Arrival and Tropical Storm Wind Speed Probabilities

Tropical Depression Adam



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- Tropical Storm force winds most likely will begin along the South Texas coast by **Wednesday night**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.

Potential Storm Surge

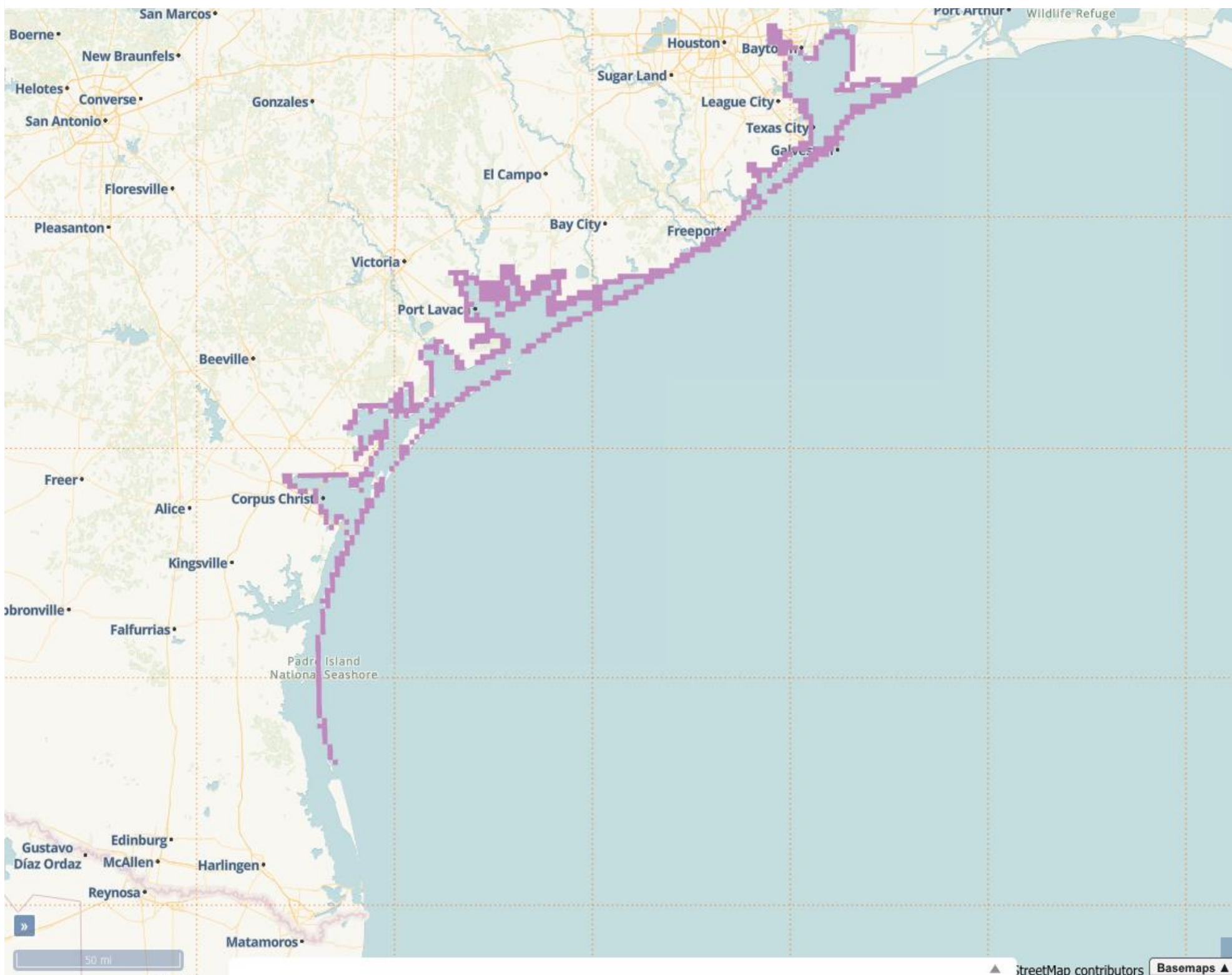
Tropical Depression Adam



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A Storm Surge Watch is in effect for...

* Port Mansfield to High Island Texas including Galveston Bay



The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere in the indicated areas if the peak surge occurs at the time of high tide...

- Port Mansfield to High Island...4 to 6 ft

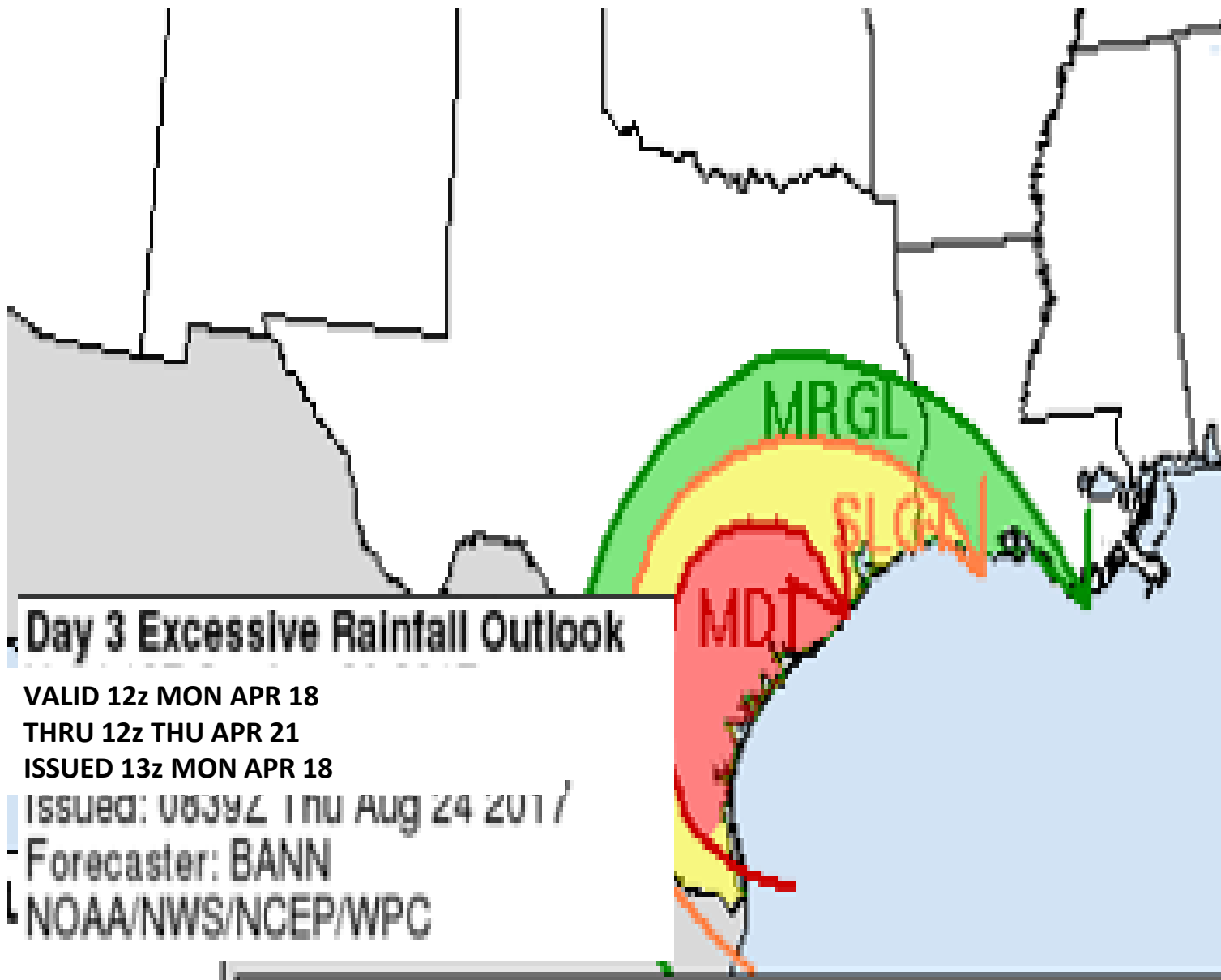
The deepest water will occur along the immediate coast in areas of onshore winds, where the surge will be accompanied by large and damaging waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

Expected Storm Total Rainfall and Chance of Rainfall Flooding



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Tropical Depression Adam - Valid 12Z Apr 18 - 12Z Apr 25



Day 3 Excessive Rainfall Outlook

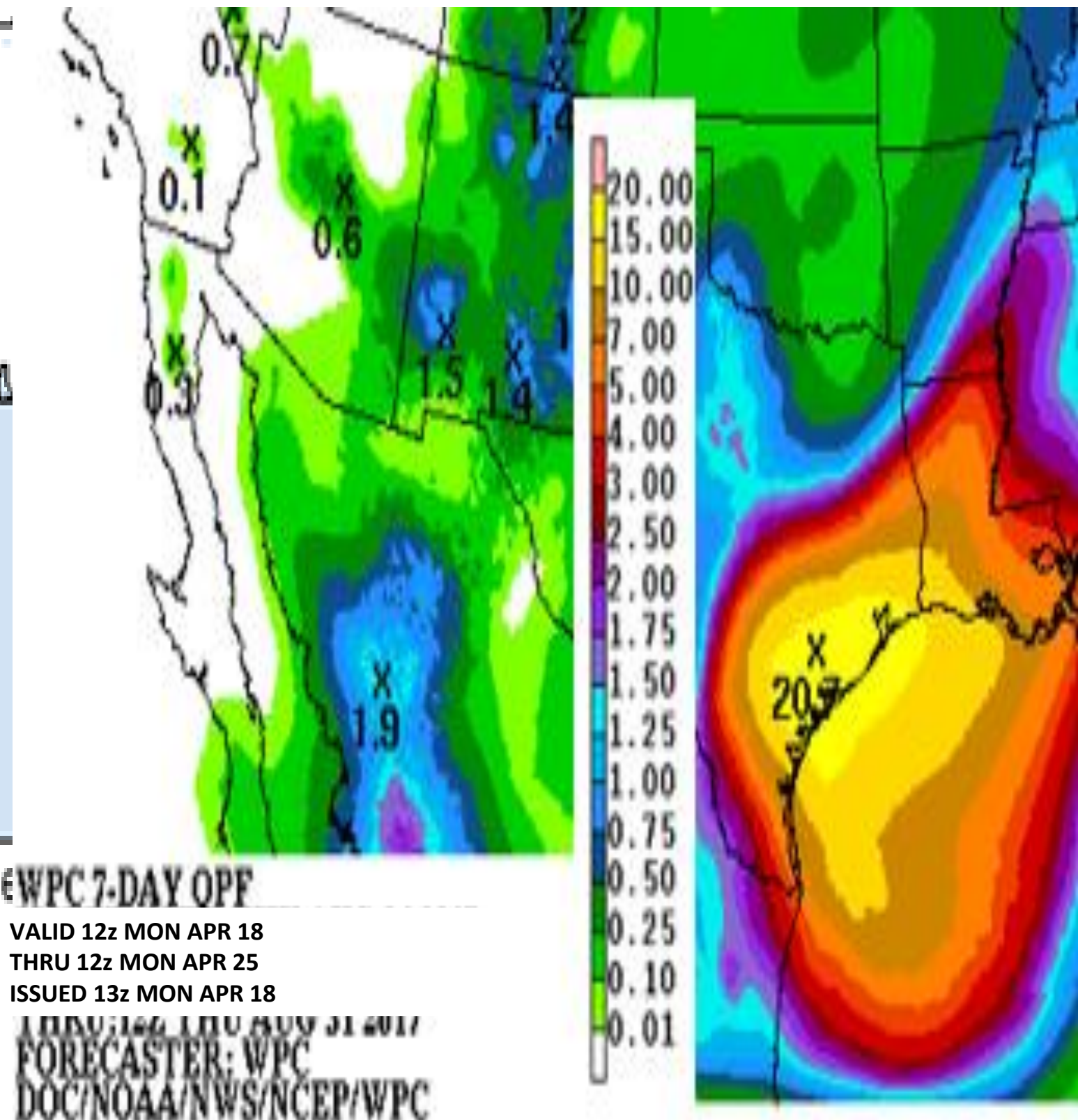
VALID 12z MON APR 18
THRU 12z THU APR 21
ISSUED 13z MON APR 18
ISSUED: 0639Z THU AUG 24 2017
FORECASTER: BANN
NOAA/NWS/NCEP/WPC

Risk of rainfall exceeding flash flood guidance
to the right of a line

MDT: 10%-15%

SLGT: 5%-10%

MRGL: 2%-5%



VALID 12z MON APR 18
THRU 12z MON APR 25
ISSUED 13z MON APR 18
FORECASTER: WPC
DOC/NOAA/NWS/NCEP/WPC

Adam is expected to produce total rain accumulations of 10 to 15 inches with isolated maximum amounts of 20 inches over the middle and upper Texas coast and southwest Louisiana through the weekend, with heavy rainfall beginning as early as Thursday morning. Adam is also expected to produce total rain accumulations of 3 to 9 inches in portions of south, central, and northeast Texas and the rest of the lower Mississippi Valley. Rainfall from Adam could cause life-threatening flooding.





- **Marine Key Messages:**
- Seas could build to 12-15 ft off the South Texas coast Wednesday into Thu

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Rainfall/Flash Flooding – High

Tornadoes – None

Waves - Medium



BRIEFING

You can contact the Tropical Analysis and Forecast Branch at
305-229-4424

The Next Briefing Will Be:
Tuesday, 9:00 AM CDT

You can always find get the latest graphics and information for this storm at www.hurricanes.gov



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www.nhc.noaa.gov