

IMPACTS FOR D8 (through next 3 days)

Winds – HIGH

Storm Surge – HIGH

Rainfall/Flash Flooding – MODERATE

Tornadoes – LOW

Waves - HIGH

TROPICAL STORM ZETA BRIEFING



5:00 PM CDT
Tuesday, October 27, 2020

Prepared by:

Jeff Lewitsky

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

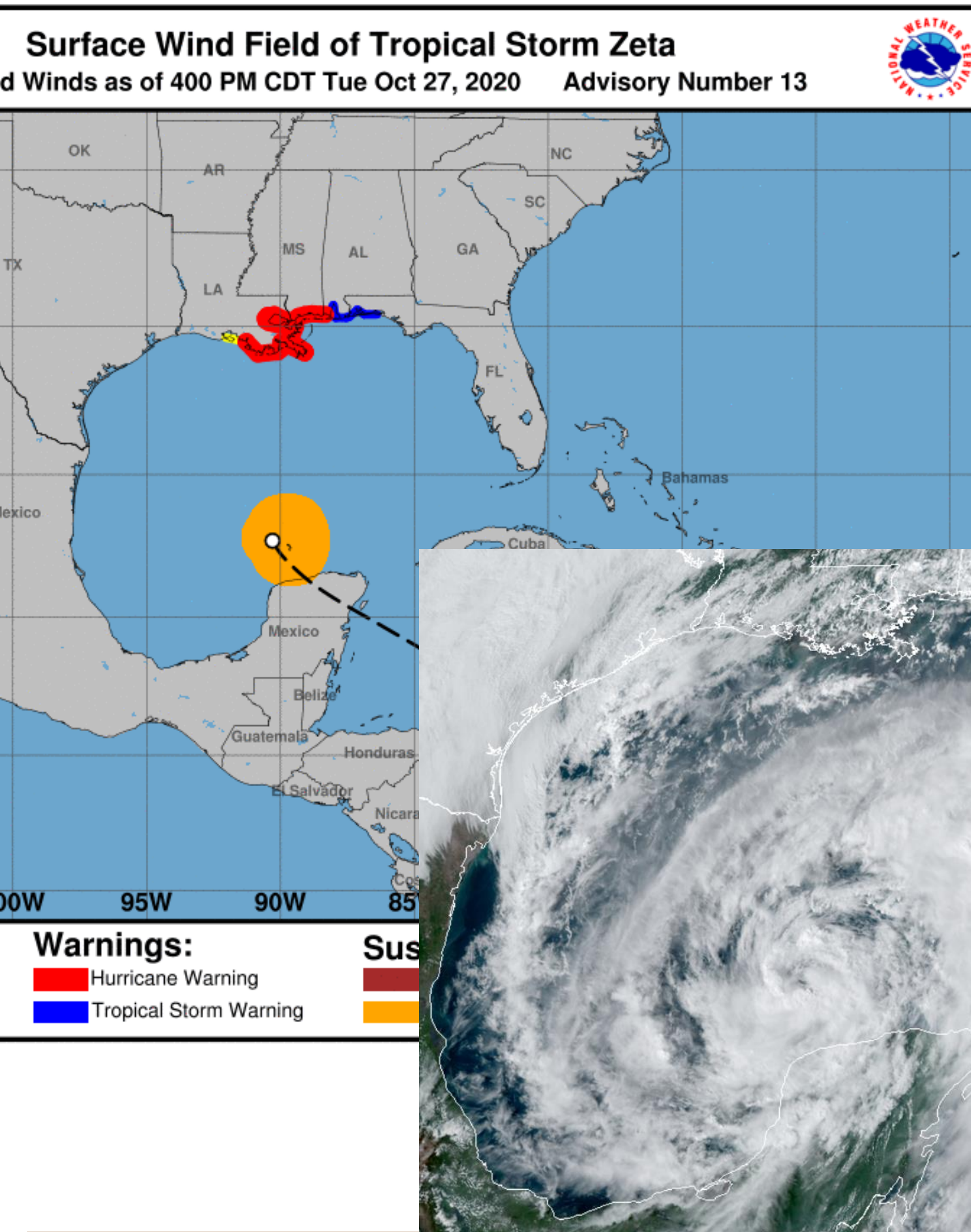
www.nhc.noaa.gov

Situation Overview

Tropical Storm Zeta



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...ZETA EXPECTED TO BRING HURRICANE CONDITIONS AND STORM SURGE TO A PORTION OF THE NORTHERN GULF COAST TOMORROW...

...STRONG WINDS ARE LIKELY TO SPREAD WELL INLAND ALONG THE NORTHERN GULF COAST WEDNESDAY NIGHT...

SUMMARY OF 400 PM CDT INFORMATION

LOCATION...22.7N 90.3W
ABOUT 391 NM S OF THE MOUTH OF THE MISSISSIPPI RIVER
MAXIMUM SUSTAINED WINDS...55 KT
PRESENT MOVEMENT...NW AT 12 KT

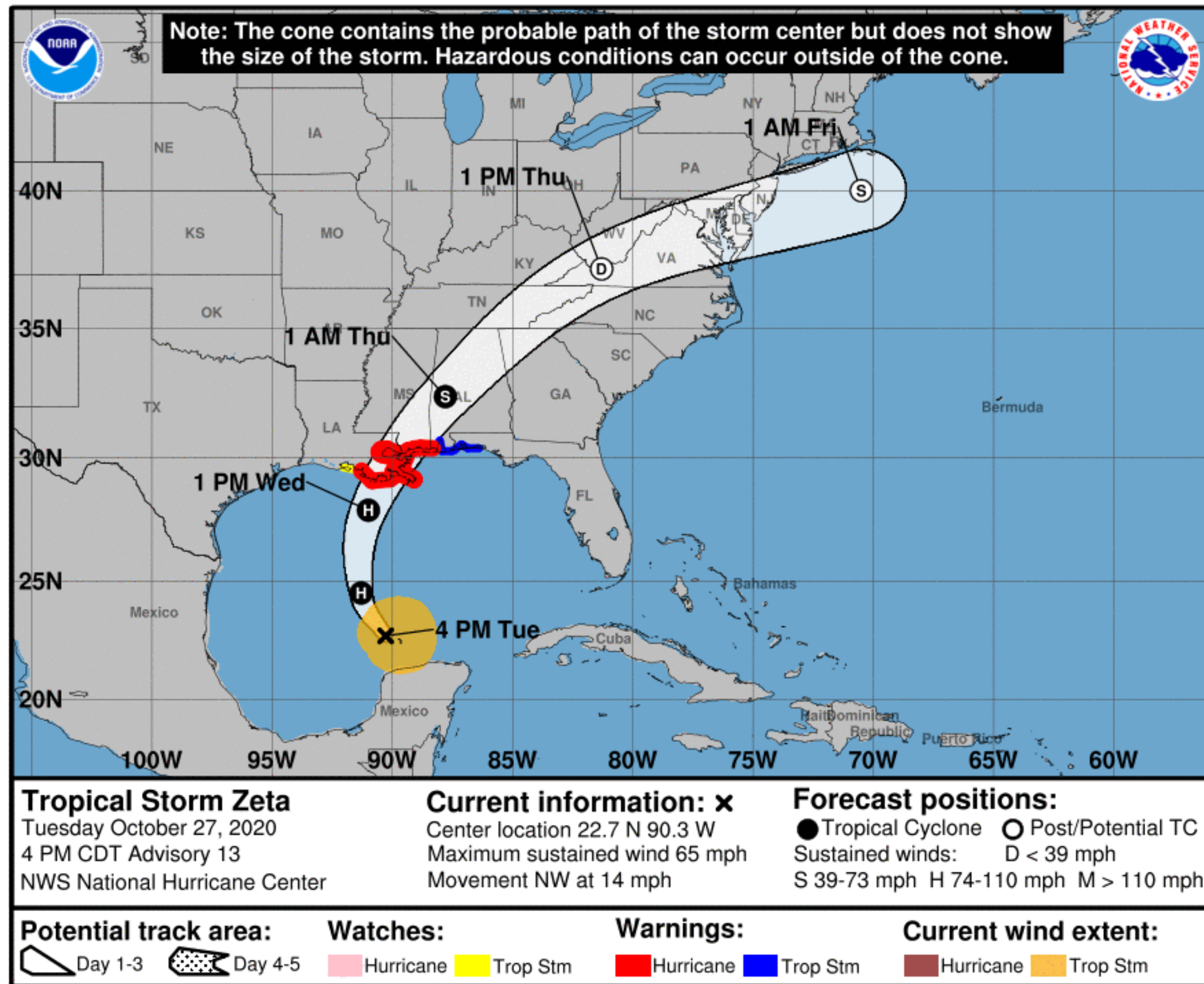
SIZE (in NM).....
50 KT..... 70NE 70SE 20SW 40NW.
34 KT..... 120NE 120SE 60SW 70NW.
12 FT SEAS.. 180NE 60SE 30SW 60NW.
PEAK SEAS.. 30 FT

Forecast Information

Tropical Storm Zeta



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

- **Zeta should regain hurricane strength tonight as it moves into the central Gulf of Mexico**
- **Zeta is anticipated to turn toward the north-northeast and make landfall along eastern Louisiana/Mississippi sometime between Wednesday afternoon and Wednesday night**
- **The system is forecast to make landfall with an intensity between a high end tropical storm to a Category I hurricane**
- Current center forecast positions through the next 3 days (if applicable) illustrated by dots
- White swath of potential track is average track error added to each side of the forecast track through day 3

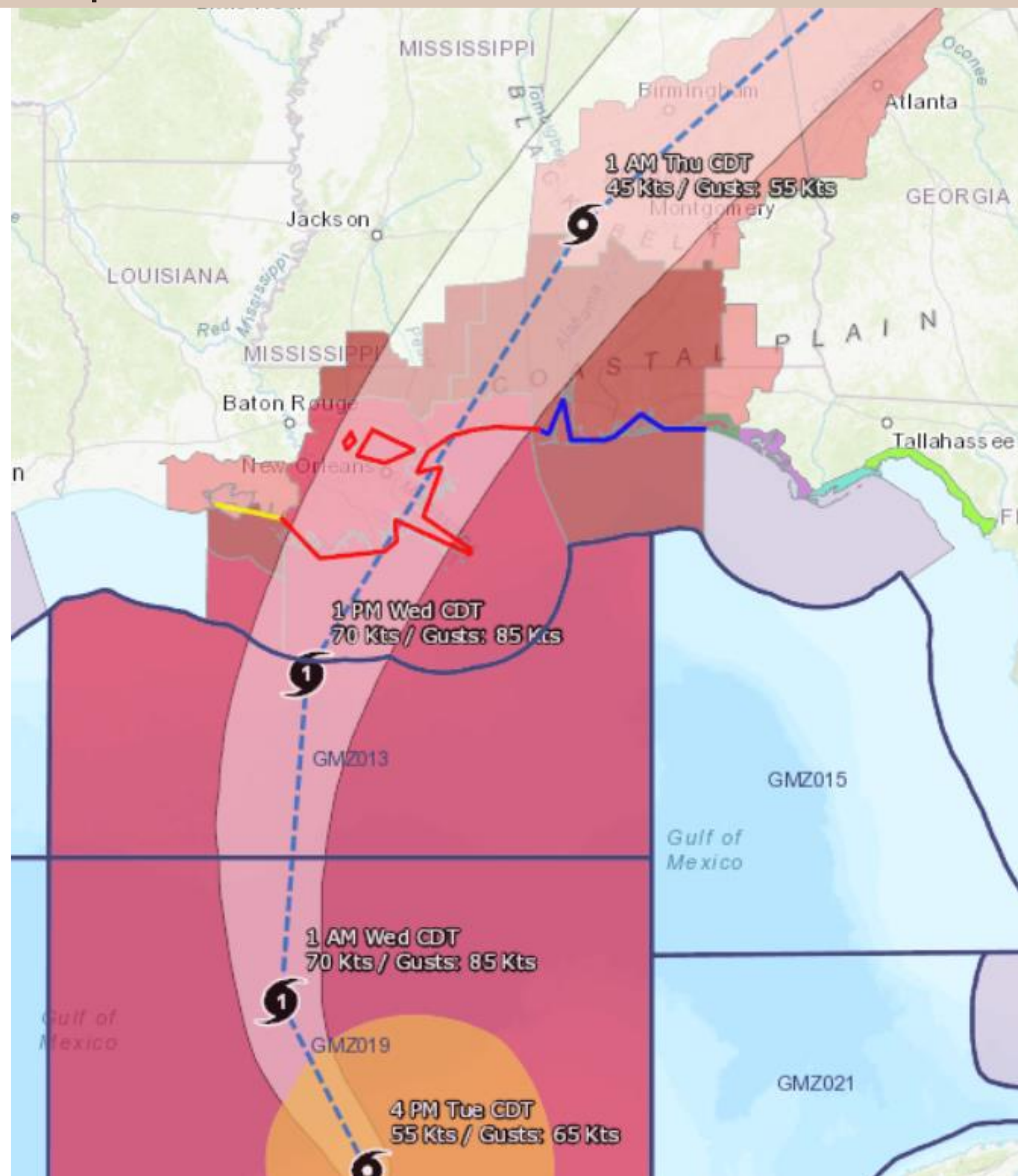
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.


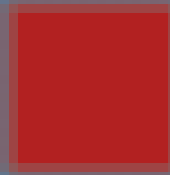
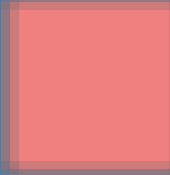
Hazards Map

Tropical Storm Zeta



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-  Hurricane Warning
-  Tropical Storm Warning
-  Tropical Storm Watch

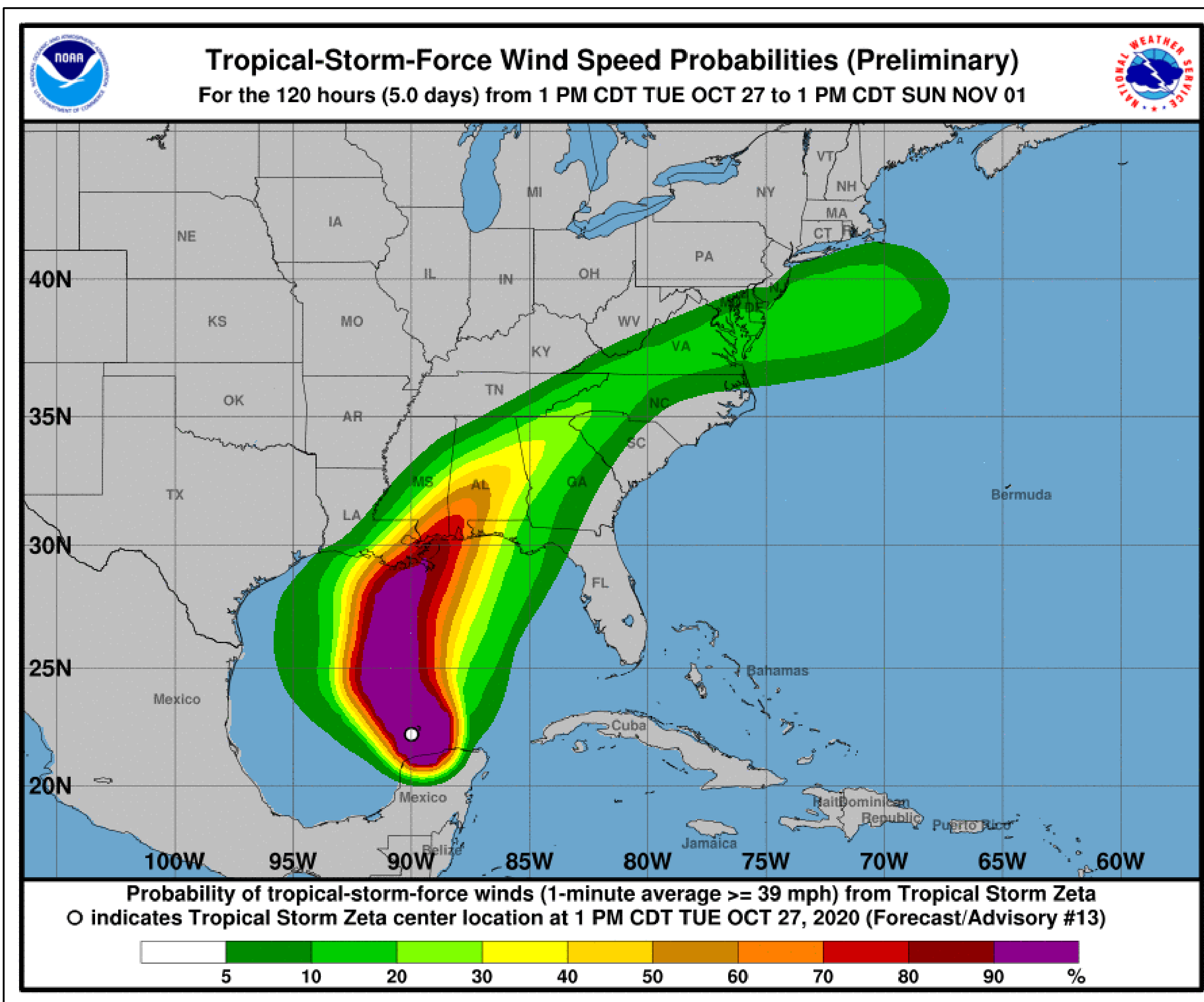
- <https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Zeta



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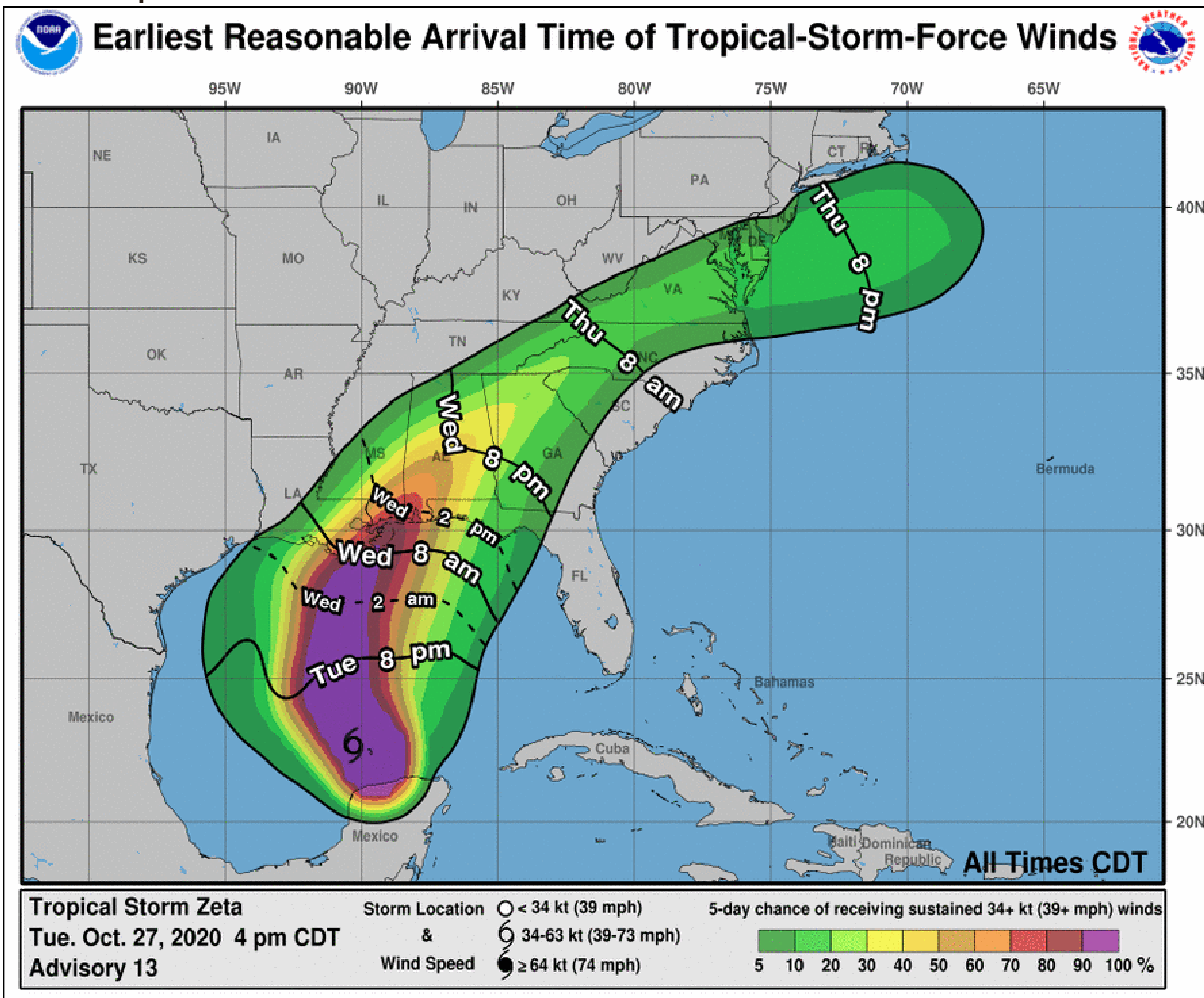
- **Vermillion Bay, LA 25%**
 - **Morgan City, LA 45%**
 - **Venice, LA 90%**
 - **New Orleans, LA 75%**
 - **Biloxi, MS 75%**
 - **Pascagoula, MS 75%**
 - **Mobile, AL 75%**
 - **Pensacola, FL 50%**
 - **Destin, FL 35%**
 - **Panama City, FL 20%**
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
 - Clear or dark green are the lowest chances of 0-30%.
 - Yellow to orange is 31-70%
 - Red through purple are the highest probabilities of 71%-100%
 - See the color bar below the image for more details.

Earliest Reasonable Time of Arrival and Tropical Storm Windspeed Probabilities

Tropical Storm Zeta



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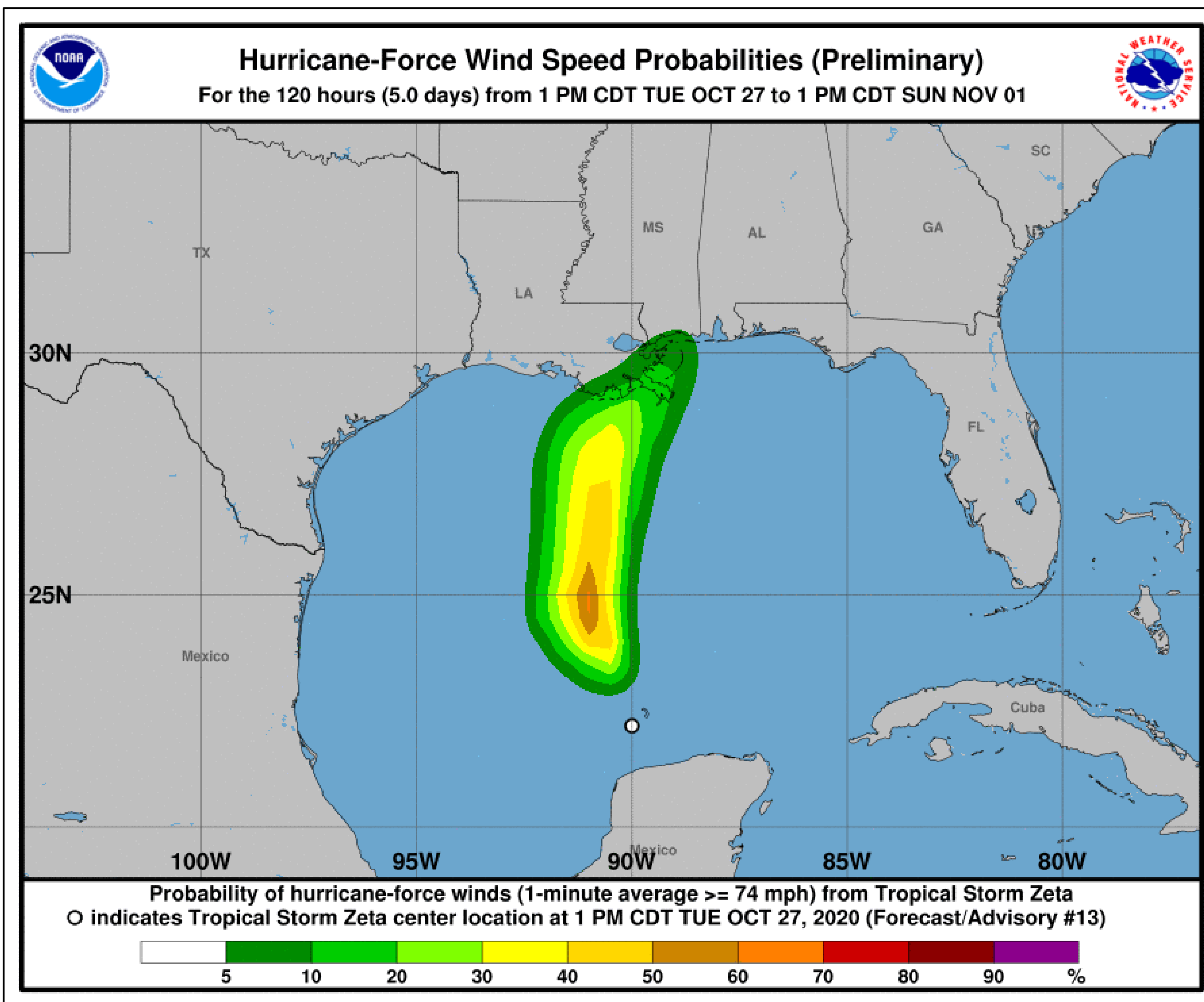
- **SE Louisiana/MS – Wednesday morning**
- **AL/FL Peninsula – Wednesday afternoon**
- The earliest reasonable time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Hurricane Wind Speed Probabilities

Tropical Storm Zeta



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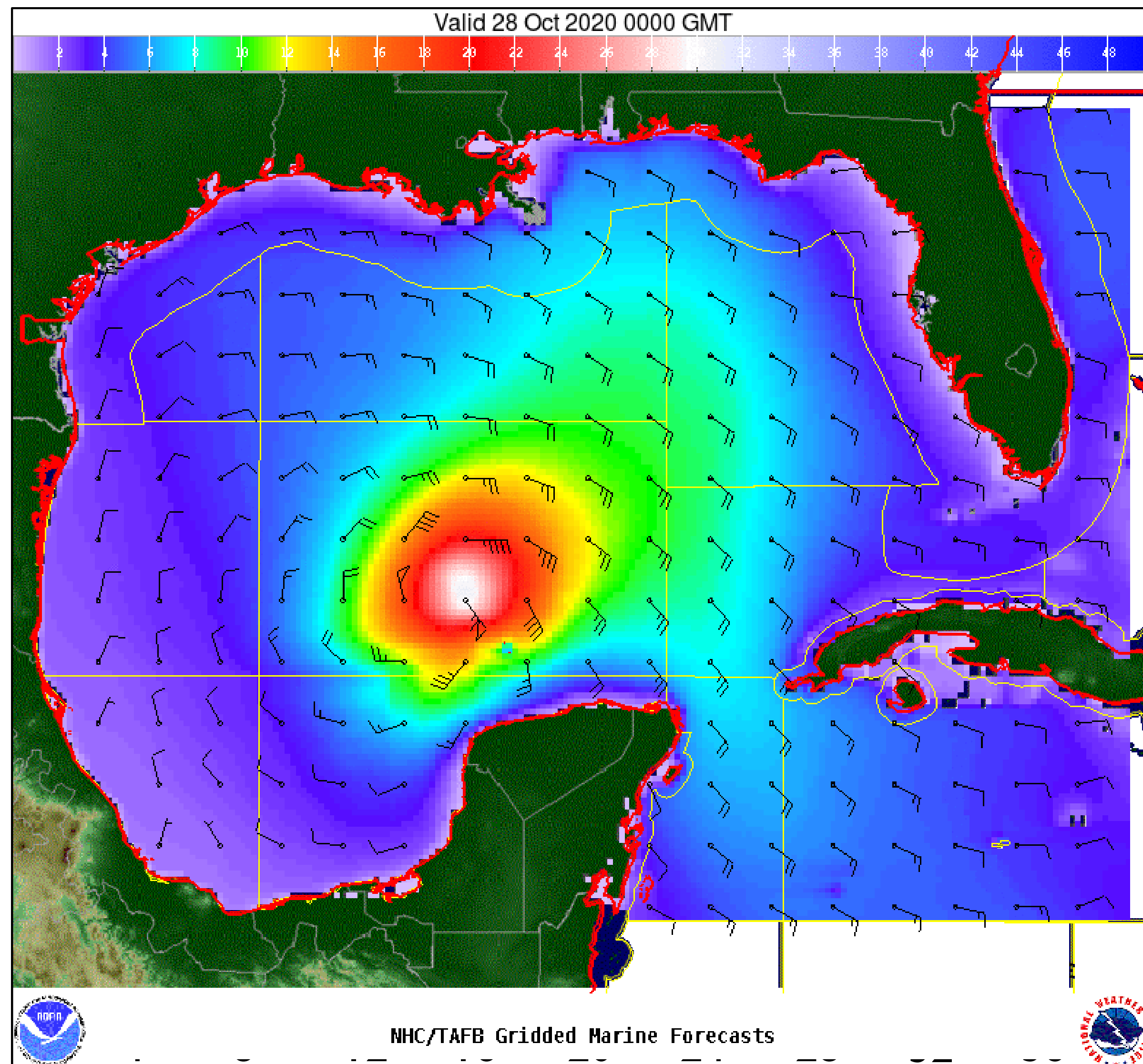
- **Venice, LA 15%**
- **New Orleans, LA 5%**
- **Biloxi, MS 5%**
- **Pascagoula, MS 5%**
- **Mobile, AL 5%**
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Wind And Waves

Tropical Storm Zeta



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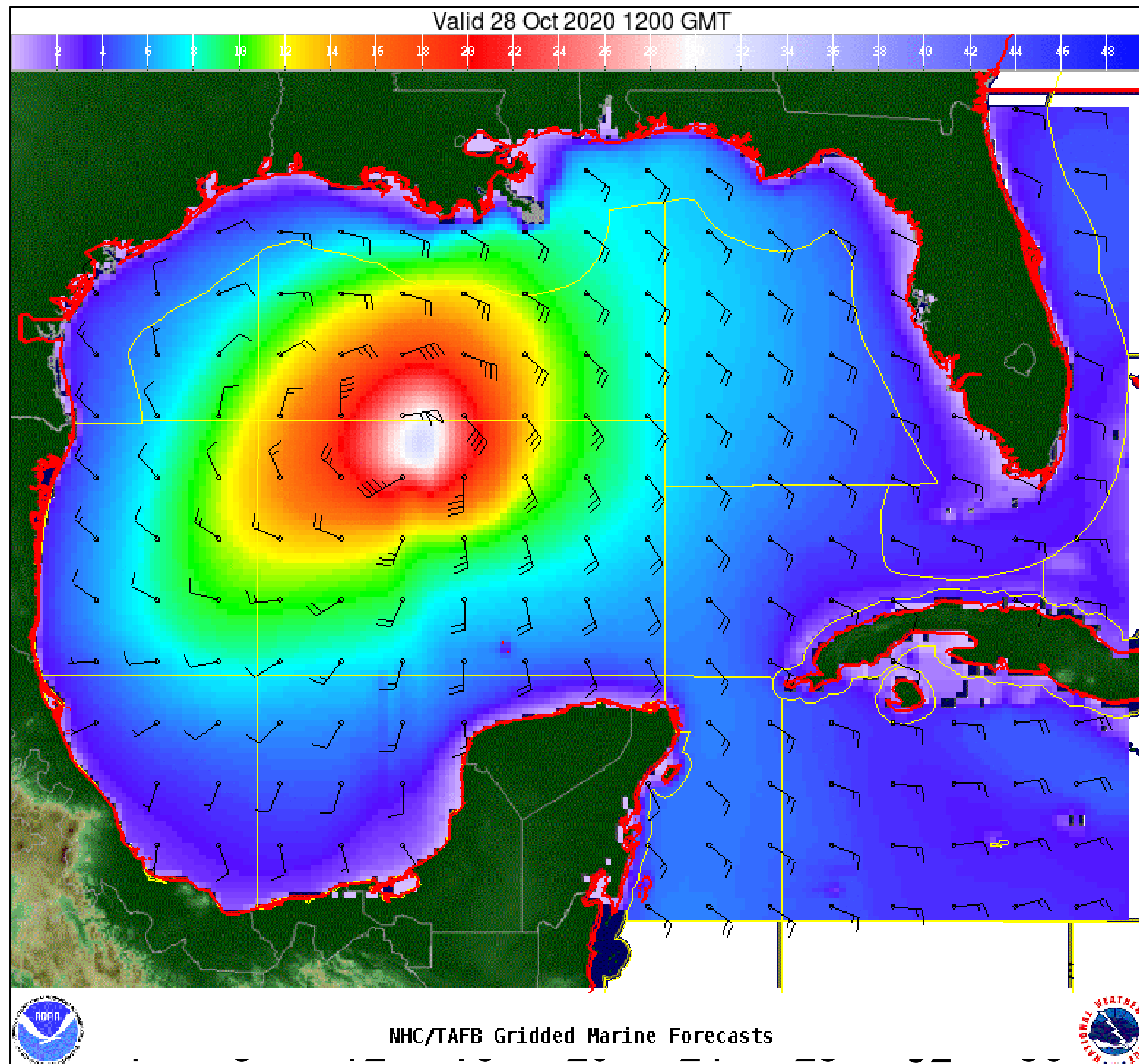
This evening
7pm CDT, Tuesday, October 27th, 2020
Peak Winds: 55 KT
Peak Seas: 30 FT

Wind And Waves

Tropical Storm Zeta



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Wednesday Morning

7am CDT, Wednesday, October 28th, 2020

Peak Winds: 70 KT

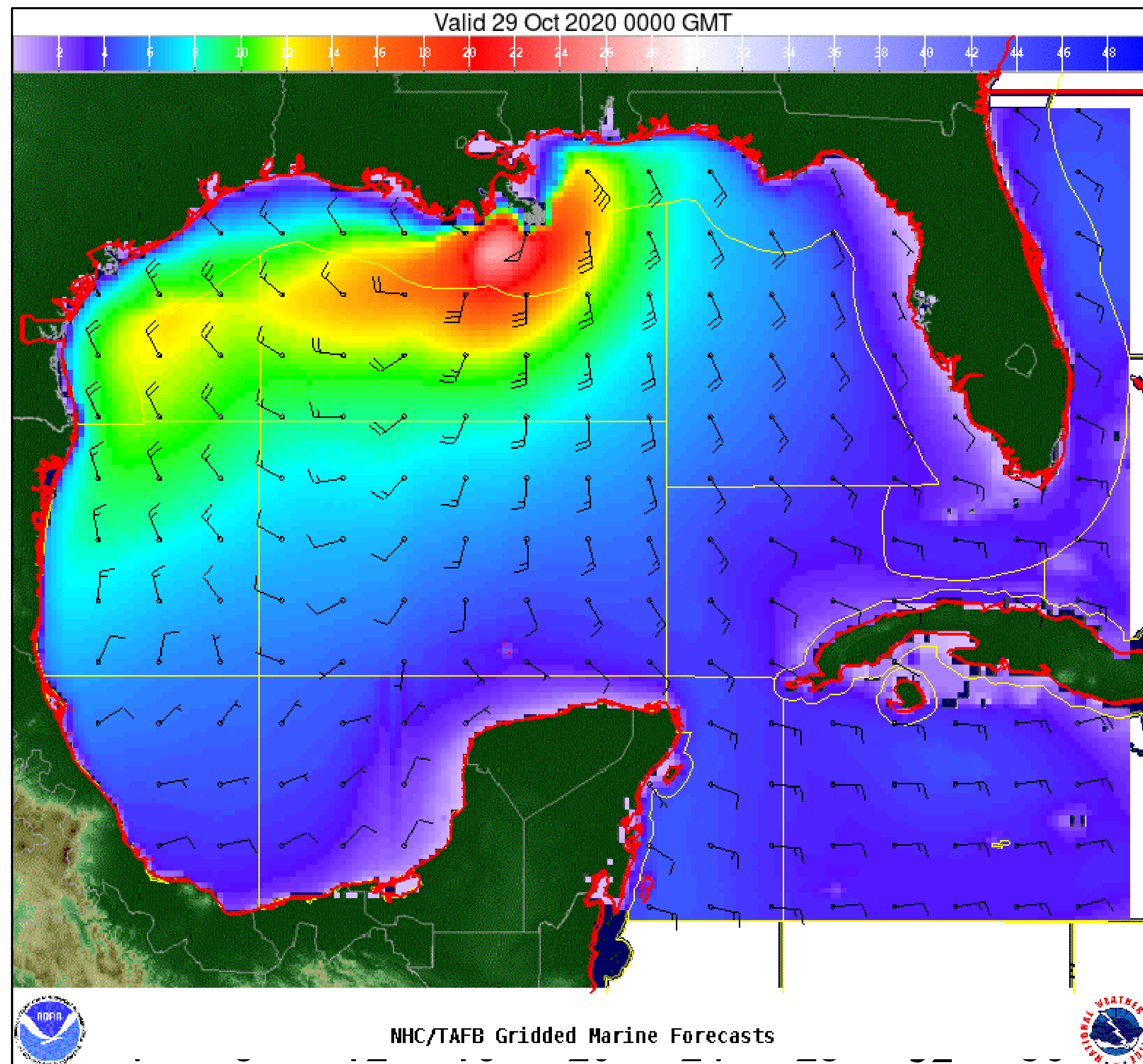
Peak Seas: 32 FT

Wind And Waves

Tropical Storm Zeta



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Wednesday Evening

7pm CDT, Wednesday, October 28th, 2020

Peak Winds: 55 KT

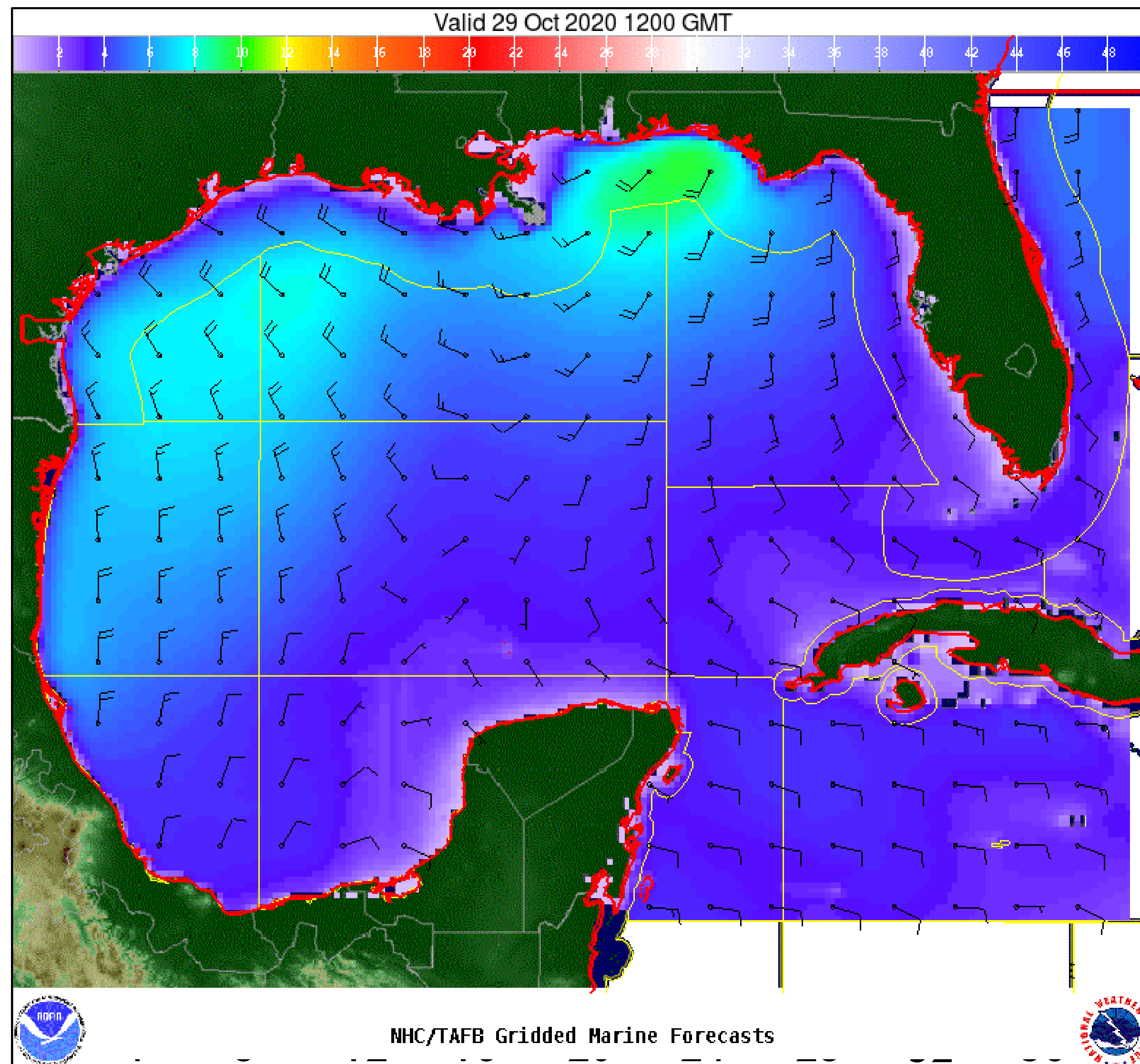
Peak Seas: 23 FT

Wind And Waves

Tropical Storm Zeta



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Thursday Morning

7am CDT, Thursday, October 29th, 2020

Peak Winds: 35 KT (well inland)

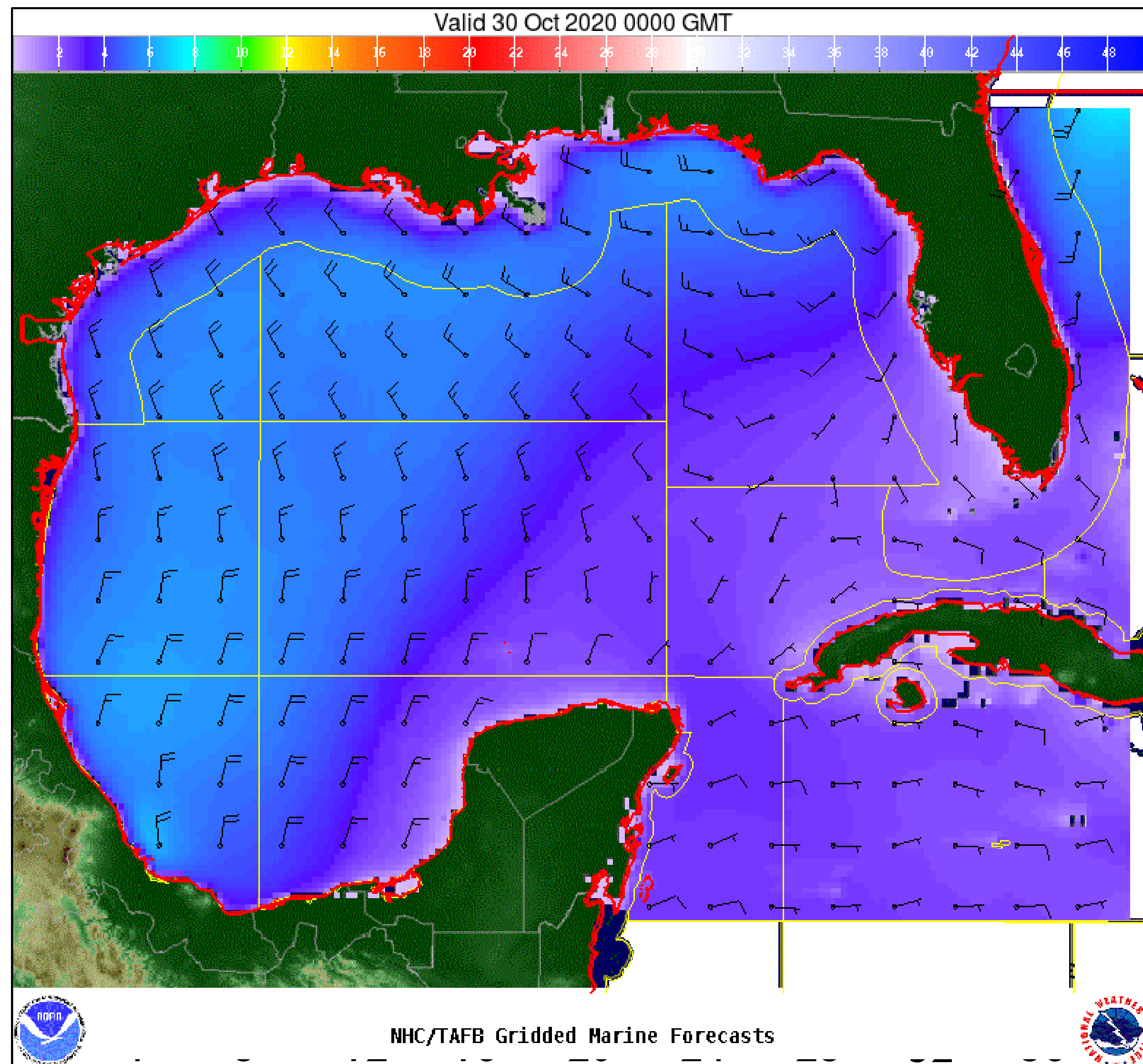
Peak Seas: 12 FT (in northern Gulf)

Wind And Waves

Tropical Storm Zeta



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Thursday Evening
7pm CDT, Thursday, October 29th, 2020
Peak Winds: 30 KT (post-tropical)
Peak Seas: 7 FT (in northern Gulf)

Time of Departure for Tropical Storm Winds



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NWS National Hurricane Center

Tropical Storm Zeta

Venice, LA

TIME OF DEPARTURE	DATE	DAY
Most Likely	10/28 7PM CDT	Wednesday
Latest Reasonable	10/28 10PM CDT	Wednesday

New Orleans, LA

TIME OF DEPARTURE	DATE	DAY
Most Likely	10/28 8PM CDT	Wednesday
Latest Reasonable	10/28 11PM CDT	Wednesday

Biloxi, MS

TIME OF DEPARTURE	DATE	DAY
Most Likely	10/28 10PM CDT	Wednesday
Latest Reasonable	10/29 1AM CDT	Thursday

Pascagoula, MS

TIME OF DEPARTURE	DATE	DAY
Most Likely	10/28 10PM CDT	Wednesday
Latest Reasonable	10/29 1AM CDT	Thursday

Mobile, AL

TIME OF DEPARTURE	DATE	DAY
Most Likely	10/28 11PM CDT	Wednesday
Latest Reasonable	10/29 2AM CDT	Thursday

Pensacola, FL

TIME OF DEPARTURE	DATE	DAY
Most Likely	10/28 11PM CDT	Wednesday
Latest Reasonable	10/29 2AM CDT	Thursday

Storm Surge Warnings and Peak Surge

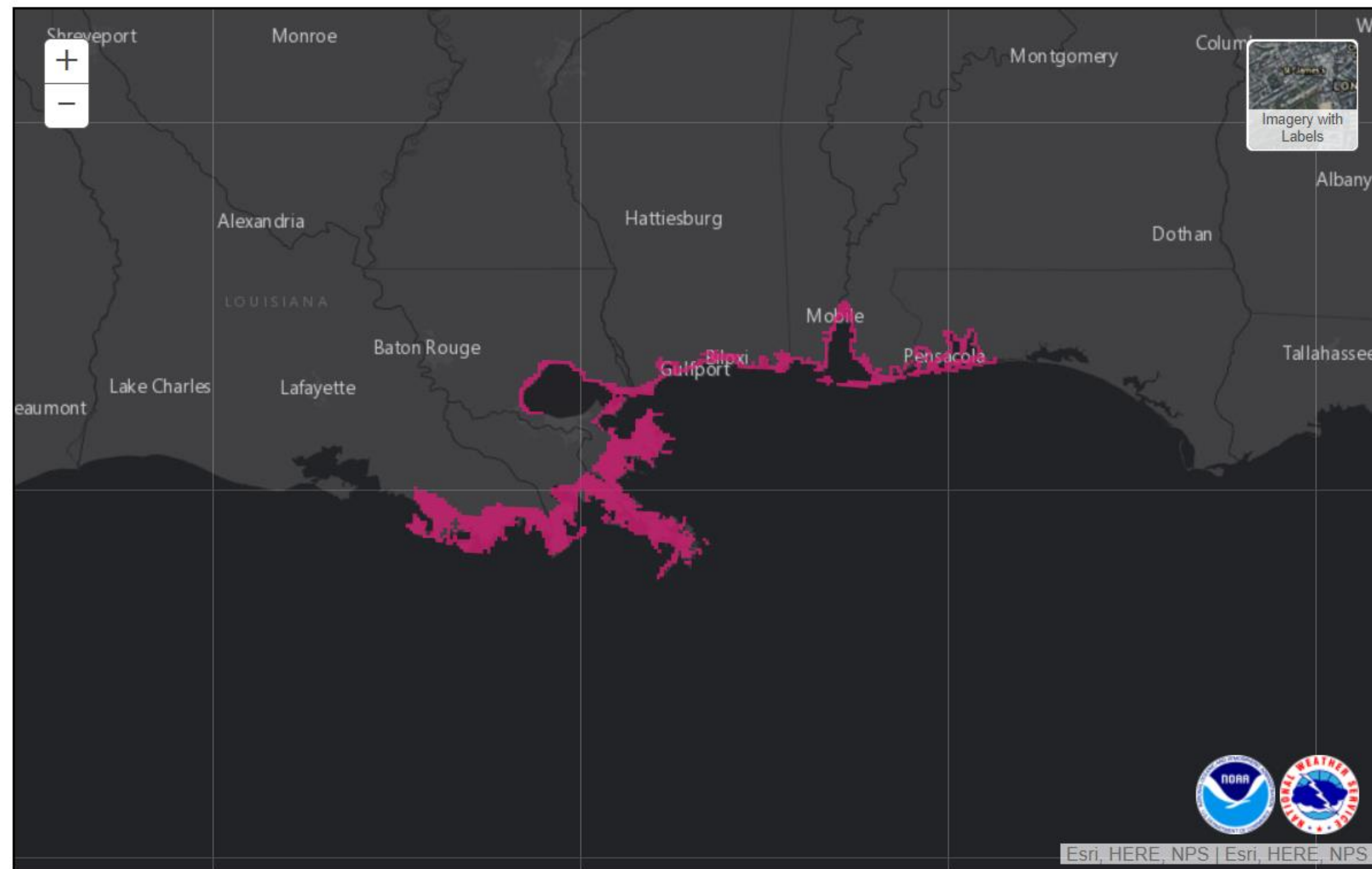
Tropical Storm Zeta



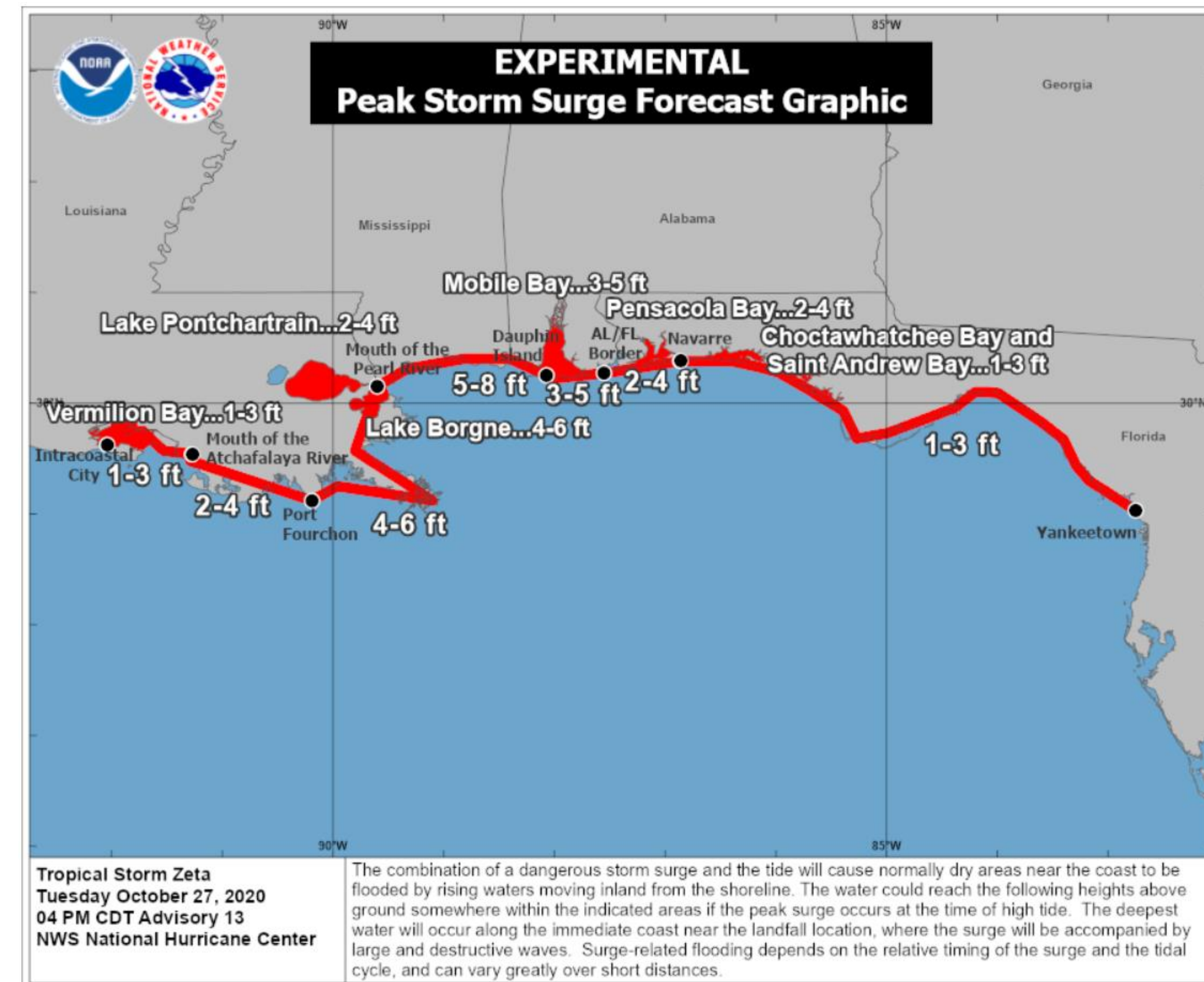
Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Storm Surge Watch/Warning Graphic*

Tropical Storm Zeta
Advisory 013 Issued: 4:00 PM CDT Tue Oct 27



0 30 60mi
Storm Surge Warning
Storm Surge Watch

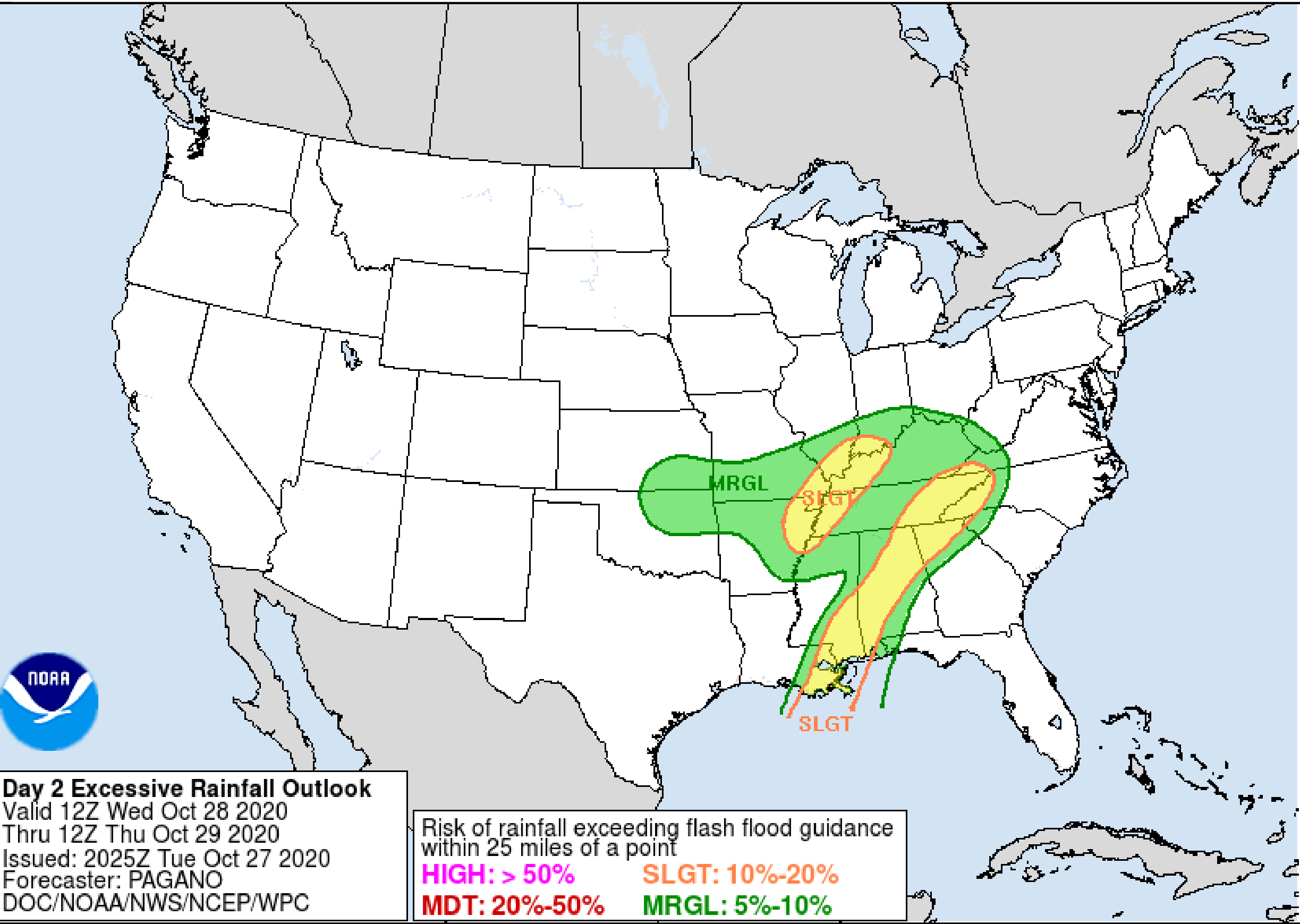
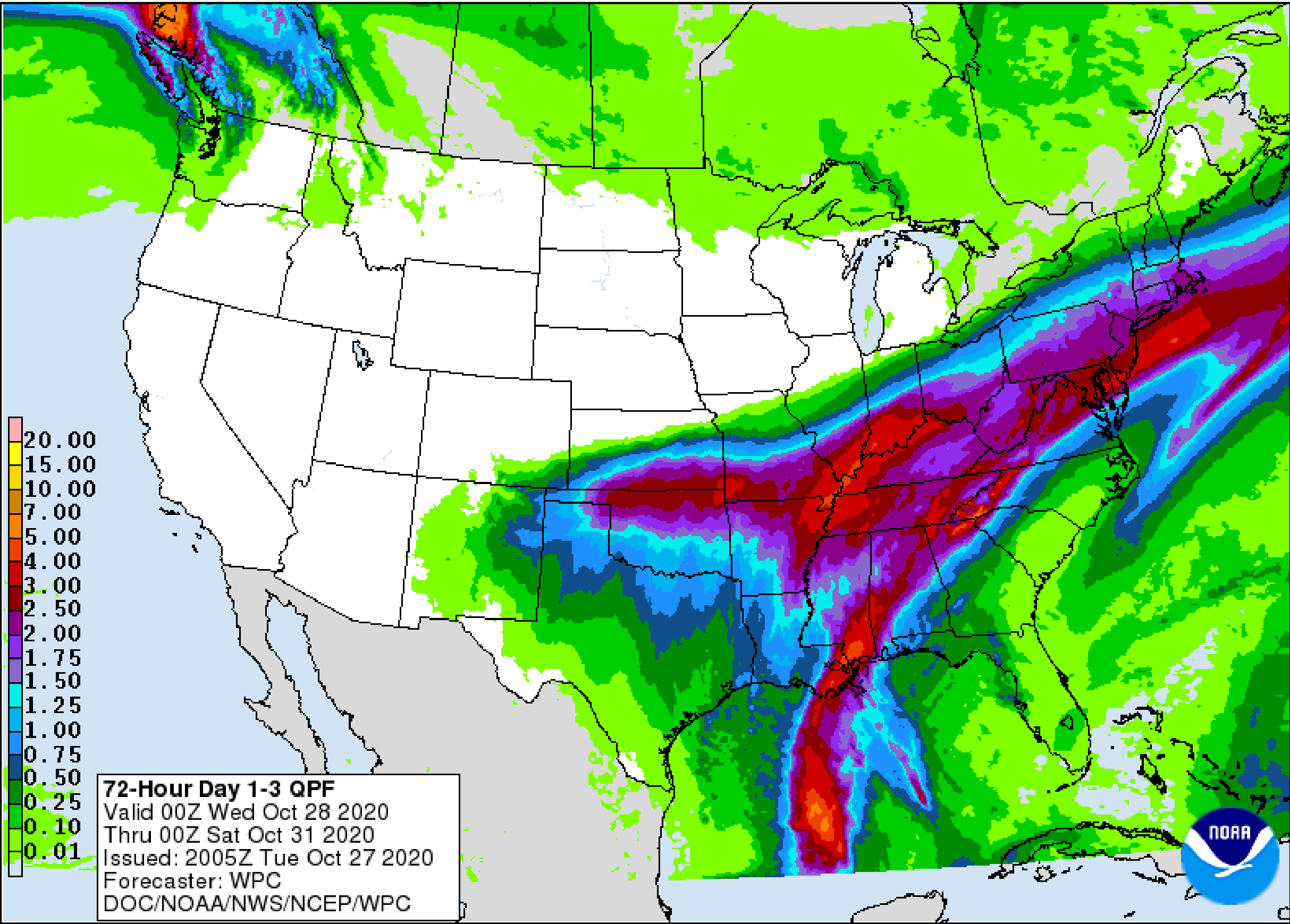


Expected Storm Total Rainfall and Chance of Rainfall Flooding

Tropical Storm Zeta



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NWS National Hurricane Center



- **Total rainfall in inches through Friday afternoon.**

Risk of rainfall exceeding flash flood guidance within 25 miles of a point
HIGH: > 50% **SLGT: 10%-20%**
MDT: 20%-50% **MRGL: 5%-10%**

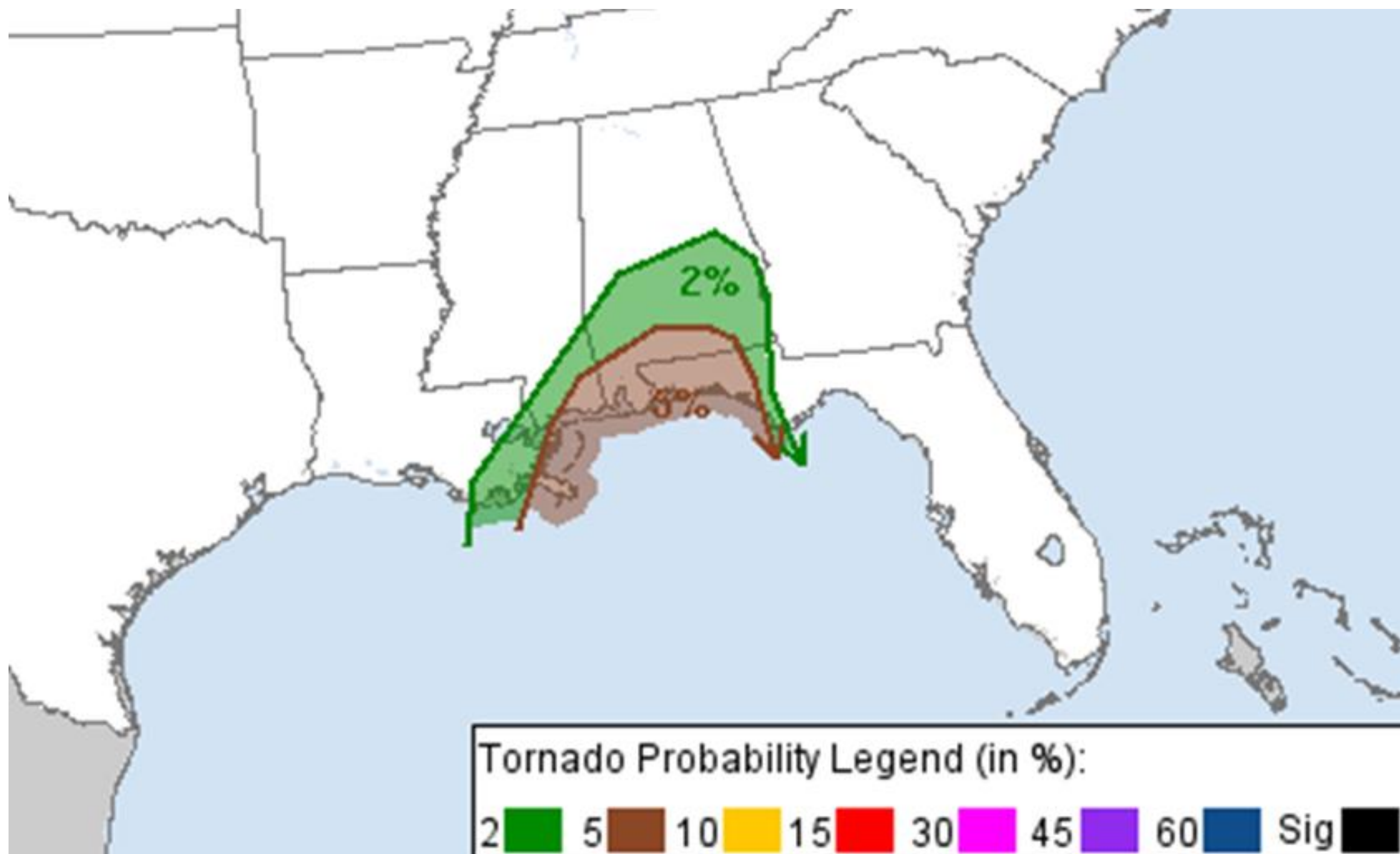
Valid Through Thursday Morning

Tornado Outlook – Day 2

Tropical Storm Zeta



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NWS National Hurricane Center





- A few tornadoes are expected Wednesday and Wednesday night

Key Messages

Tropical Storm Zeta




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NWS National Hurricane Center



Key Messages for Tropical Storm Zeta

Advisory 13: 4:00 PM CDT Tue Oct 27, 2020

1. A life-threatening storm surge is expected along portions of the northern Gulf Coast by late Wednesday, with the highest inundation occurring somewhere between the Mouth of the Pearl River and Dauphin Island, Alabama. Residents in the Storm Surge Warning area should follow any advice given by local officials.
2. Hurricane conditions are expected by late Wednesday within portions of the Hurricane Warning area between Morgan City, Louisiana, and the Mississippi/Alabama border. Damaging winds, especially in gusts, will spread well inland across portions of southeast Mississippi and southern Alabama Wednesday night due to Zeta's fast forward speed.
3. Localized heavy rainfall from Zeta will continue tonight in portions of the Yucatan Peninsula of Mexico and western Cuba where additional flash flooding is possible in urban areas. Tonight through Thursday heavy rainfall is expected from portions of the central U.S. Gulf Coast into the Ohio Valley and Mid-Atlantic States. This rainfall will lead to flash, urban, small stream, and minor river flooding.



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.


Tropical Storm Zeta
Tuesday October 27, 2020
4 PM CDT Advisory 13
NWS National Hurricane Center

Current information: x
Center location 22.7 N 90.3 W
Maximum sustained wind 65 mph
Movement NW at 14 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: Day 1-3 Day 4-5
Watches: Hurricane Trop Stm
Warnings: Hurricane Trop Stm
Current wind extent: Hurricane Trop Stm

Most Likely Arrival Time of Tropical-Storm-Force Winds



Tropical Storm Zeta
Tue. Oct. 27, 2020 4 pm CDT
Advisory 13

Storm Location: ○ = 34 kt (39 mph) ○ = 34-43 kt (39-73 mph) ● = 44 kt (74 mph)
Wind Speed

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

For more information go to hurricanes.gov

IMPACTS FOR D8 (through next 3 days)

Winds – **HIGH**

Storm Surge – **HIGH**

Rainfall/Flash Flooding – **MODERATE**

Tornadoes – **LOW**

Waves - **HIGH**



TROPICAL STORM ZETA BRIEFING

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

*The Next Briefing Will Be:
Wednesday / 1:00 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