

IMPACTS FOR D8

Winds – **High**

Storm Surge – **Moderate**

Rainfall/Flash Flooding – **Moderate**

Tornadoes – **Low**

Waves - **High**

TROPICAL STORMS MARCO AND LAURA BRIEFING



11:00 AM CDT
Sunday, August 23, 2020

Prepared by:
Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



Situation Overview

Tropical Storm Marco



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...MARCO EXPECTED TO BECOME A HURRICANE TODAY AS IT ENTERS THE CENTRAL GULF OF MEXICO...

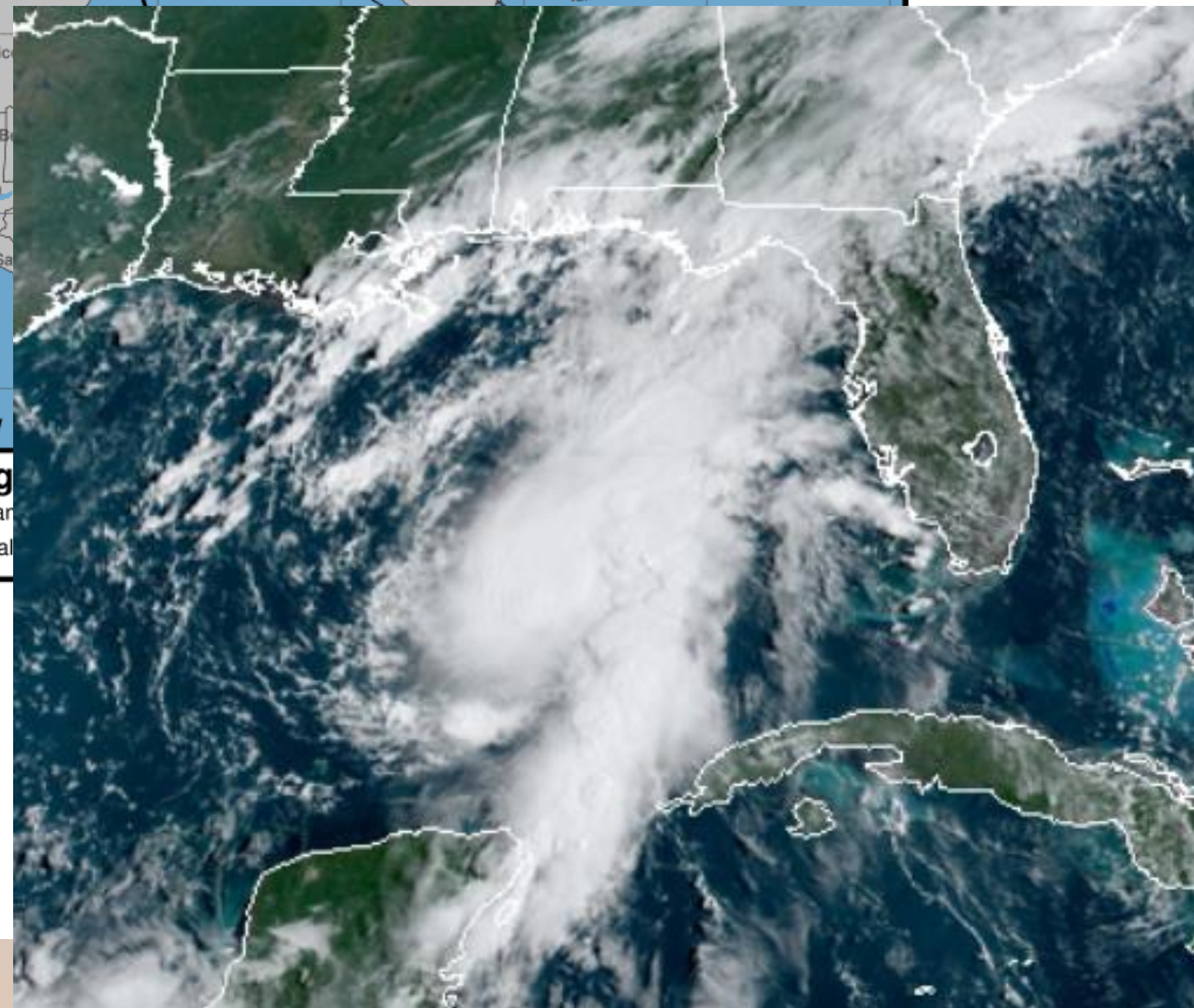
...LIFE-THREATENING STORM SURGE AND HURRICANE-FORCE WINDS EXPECTED ALONG PORTIONS OF THE U.S. GULF COAST...

SUMMARY OF 1000 AM CDT INFORMATION

LOCATION...24.7N 87.3W
ABOUT 280 NM SSE OF THE MOUTH OF THE MISSISSIPPI RIVER
ABOUT 410 NM SE OF LAFAYETTE LOUISIANA
MAXIMUM SUSTAINED WINDS 60 KT
PRESENT MOVEMENT...NNW AT 13 KT

SIZE (IN NM)

50 KT..... 20NE 20SE 0SW 20NW.
34 KT..... 60NE 50SE 20SW 50NW.
12 FT SEAS.. 60NE 30SE 0SW 30NW.
PEAK SEAS 24 FT

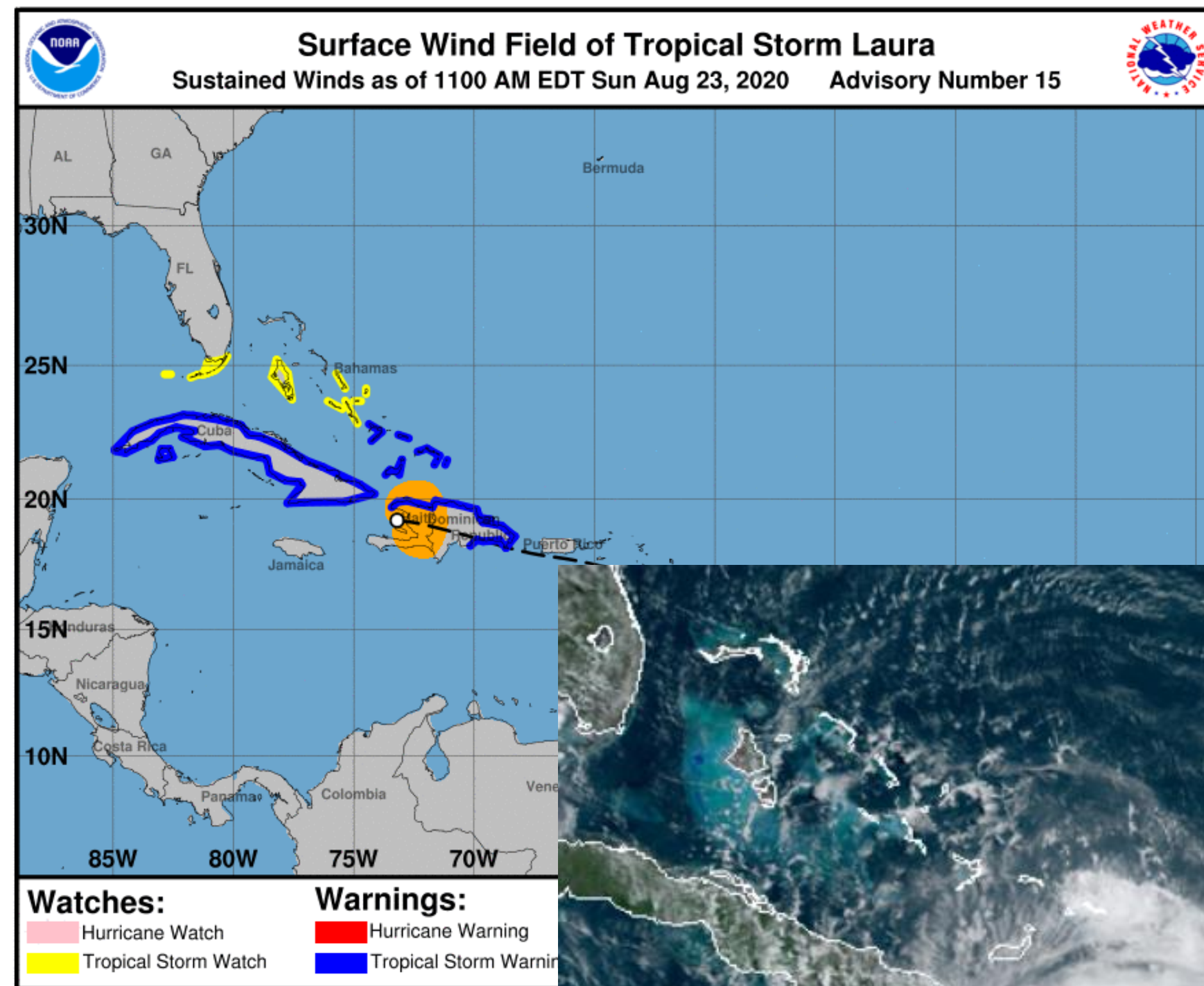


Situation Overview

Tropical Storm Laura



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**...HEAVY RAINFALL AND LIFE-THREATENING
FLASH FLOODING CONTINUES OVER
PORTIONS OF THE DOMINICAN REPUBLIC AND
HAITI...**

SUMMARY OF 1000 CDT INFORMATION

LOCATION...19.2N 73.2W
ABOUT 60 NM NW OF PORT AU PRINCE HAITI
ABOUT 80 NM SE OF THE EASTERN TIP OF
CUBA
MAXIMUM SUSTAINED WINDS 45 KT
PRESENT MOVEMENT...WNW AT 18 KT

SIZE (IN NM)
34 KT.....120NE 120SE 0SW 40NW.
12 FT SEAS..300NE 0SE 0SW 210NW.
PEAK SEAS 18 FT

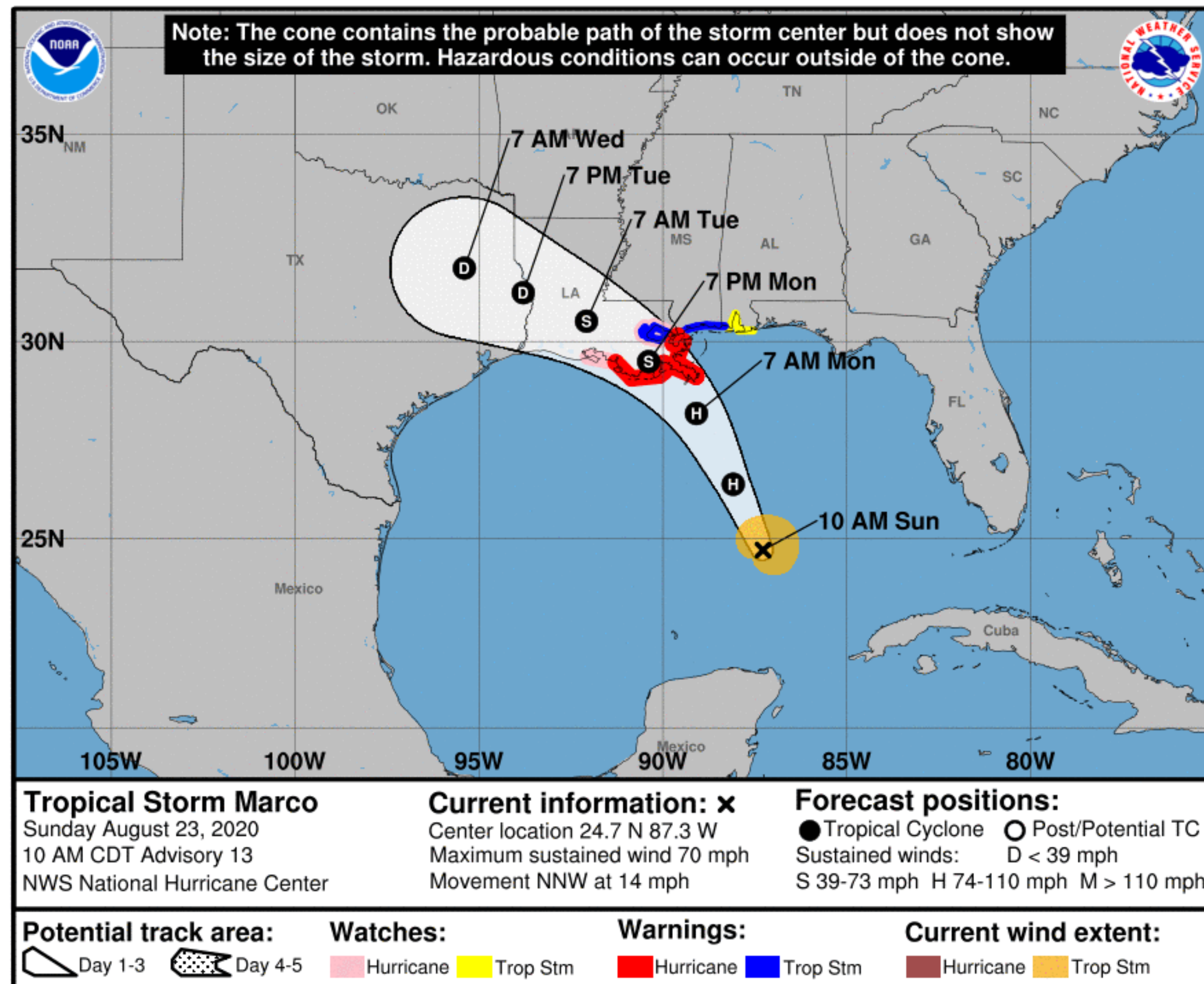


Forecast Information

Tropical Storm Marco



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

- Marco is expected to continue toward the NNW until landfall sometime Monday, then slow and turn toward the WNW
- Marco is expected to intensify to a hurricane and remain that until landfall.
- Quick weakening of the system should occur after landfall
- Current center forecast positions through the next 3 days illustrated by dots
- White swath of potential track is average track error added to each side of the forecast track through day 3

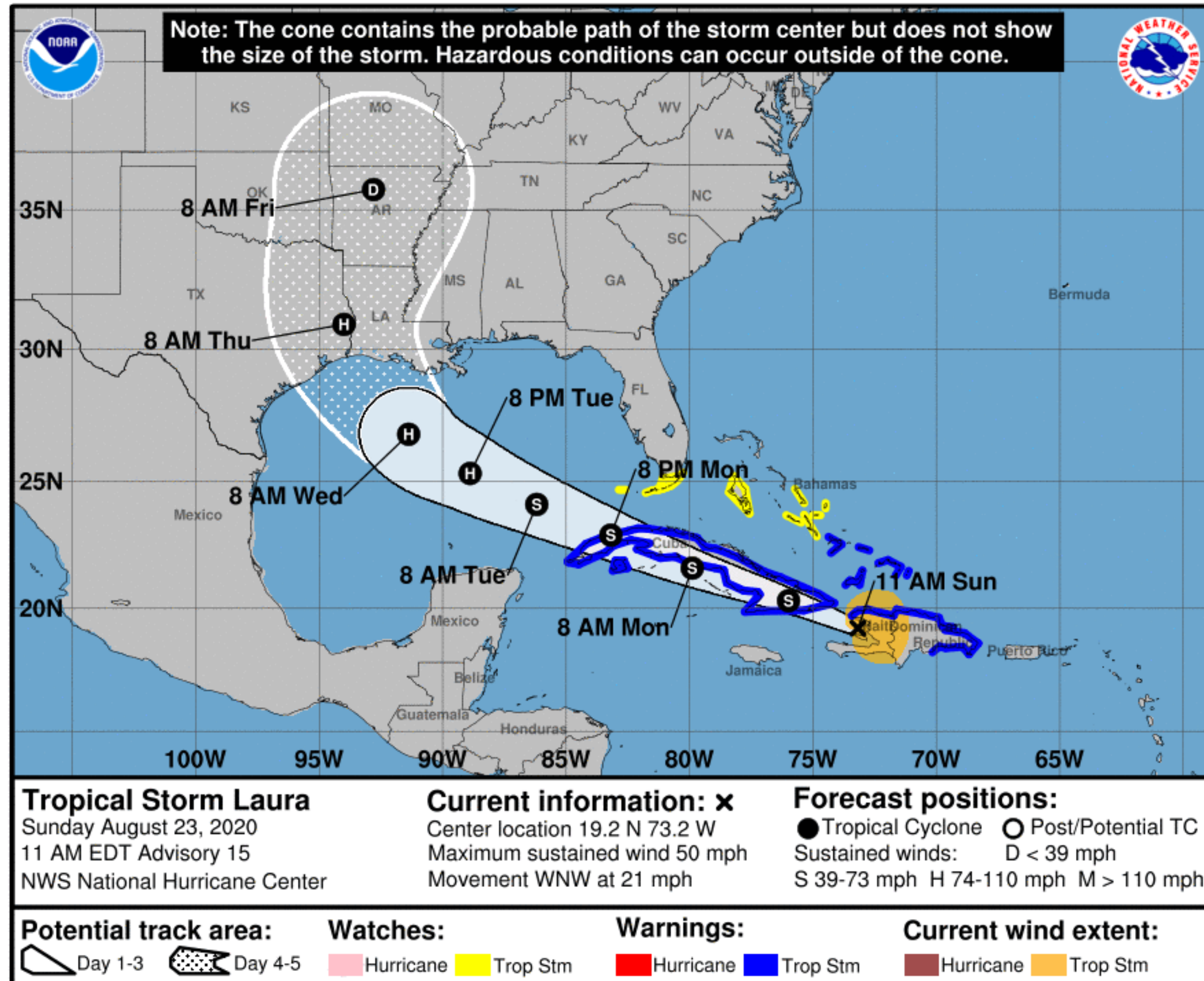
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Forecast Information

Tropical Storm Laura



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NWS National Hurricane Center



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

- Laura should continue quickly toward the WNW for three days, then turn northward on Wednesday
- Once the system reaches the Gulf of Mexico, it should intensify to a hurricane
- Landfall is likely to occur in Louisiana or Texas sometime late Wednesday or early Thursday anywhere from Category 1 through 3 hurricane
- Current center forecast positions through the next 5 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
- Hatched swath of potential track is average track error added to each side of the forecast track days 4-5

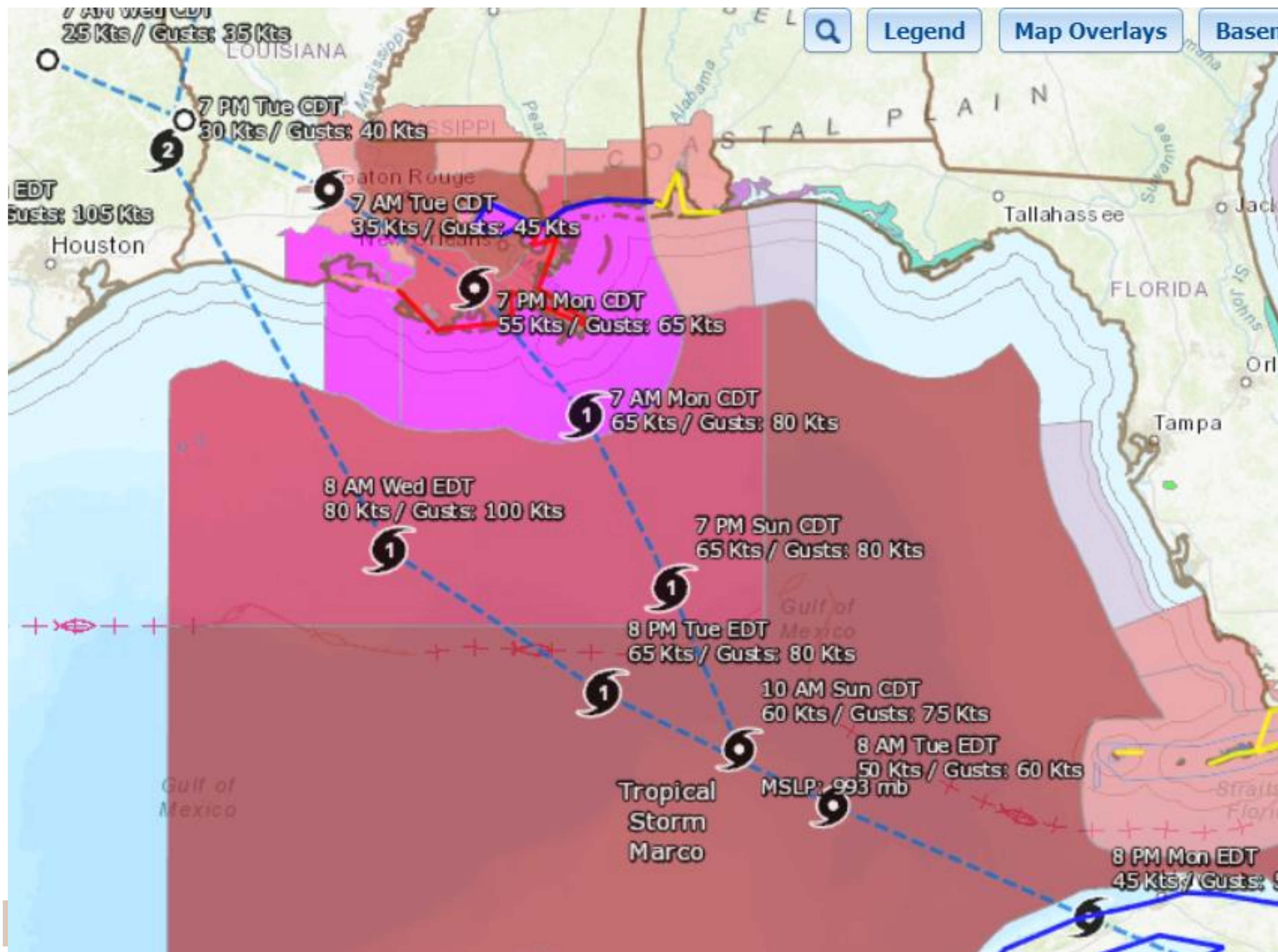
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Marco and Laura



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

-  Hurricane Warning
-  Tropical Storm Warning
-  Hurricane Watch
-  Tropical Storm Watch
-  Gale Watch
-  Small Craft Advisory

T.S. Wind Speed Probabilities

Tropical Storm Marco



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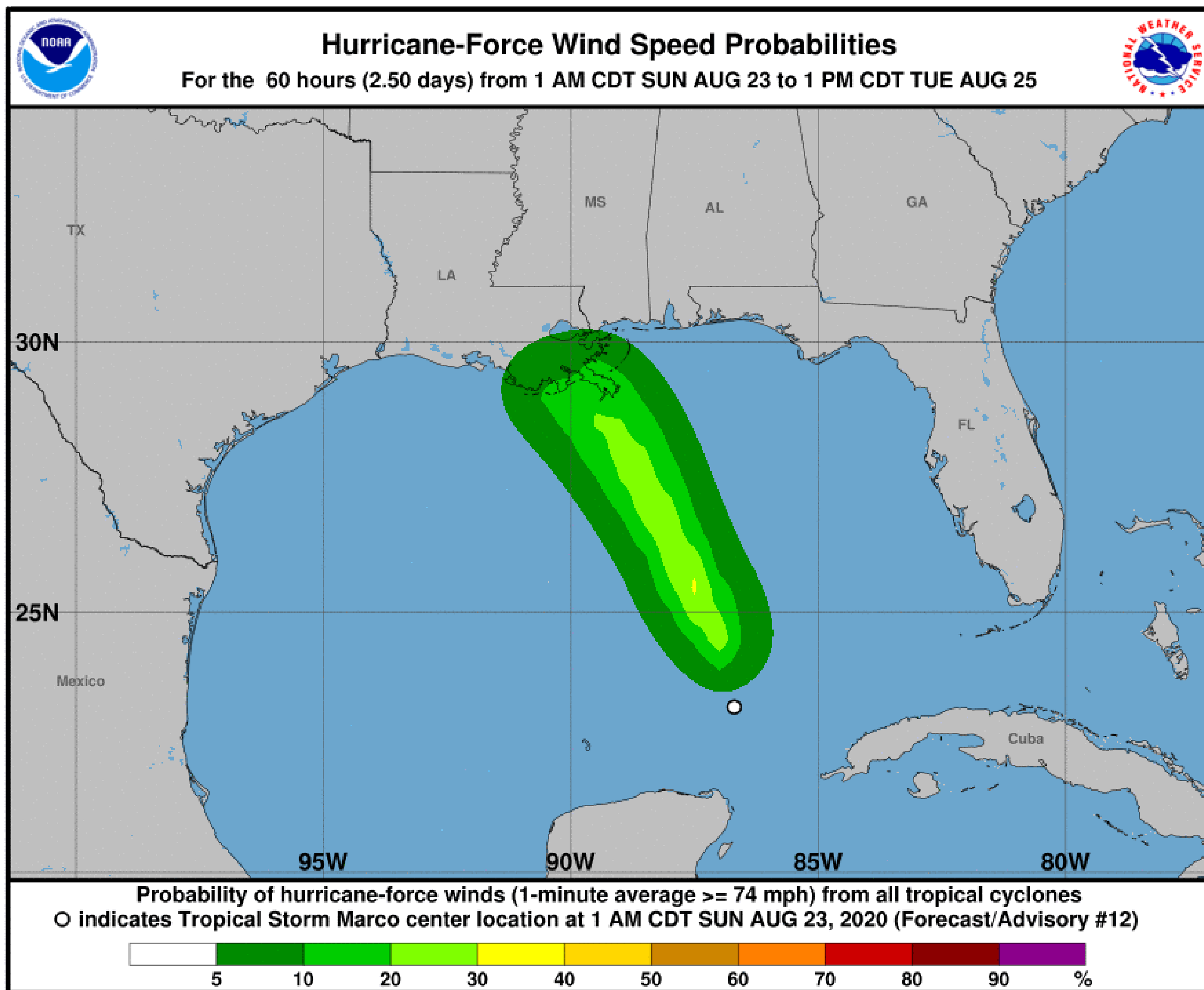
- Mobile – 15%
 - New Orleans – 70%
 - Morgan City – 60%
 - Port Arthur – 10%
 - Baton Rouge – 20%
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
 - Clear or dark green are the lowest chances of 0-30%.
 - Yellow 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.

Hurricane Wind Speed Probabilities

Tropical Storm Marco



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- **Buras 10%**
- **New Orleans 5%**
- **Morgan City 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%.
- See the color bar below the image for more details.

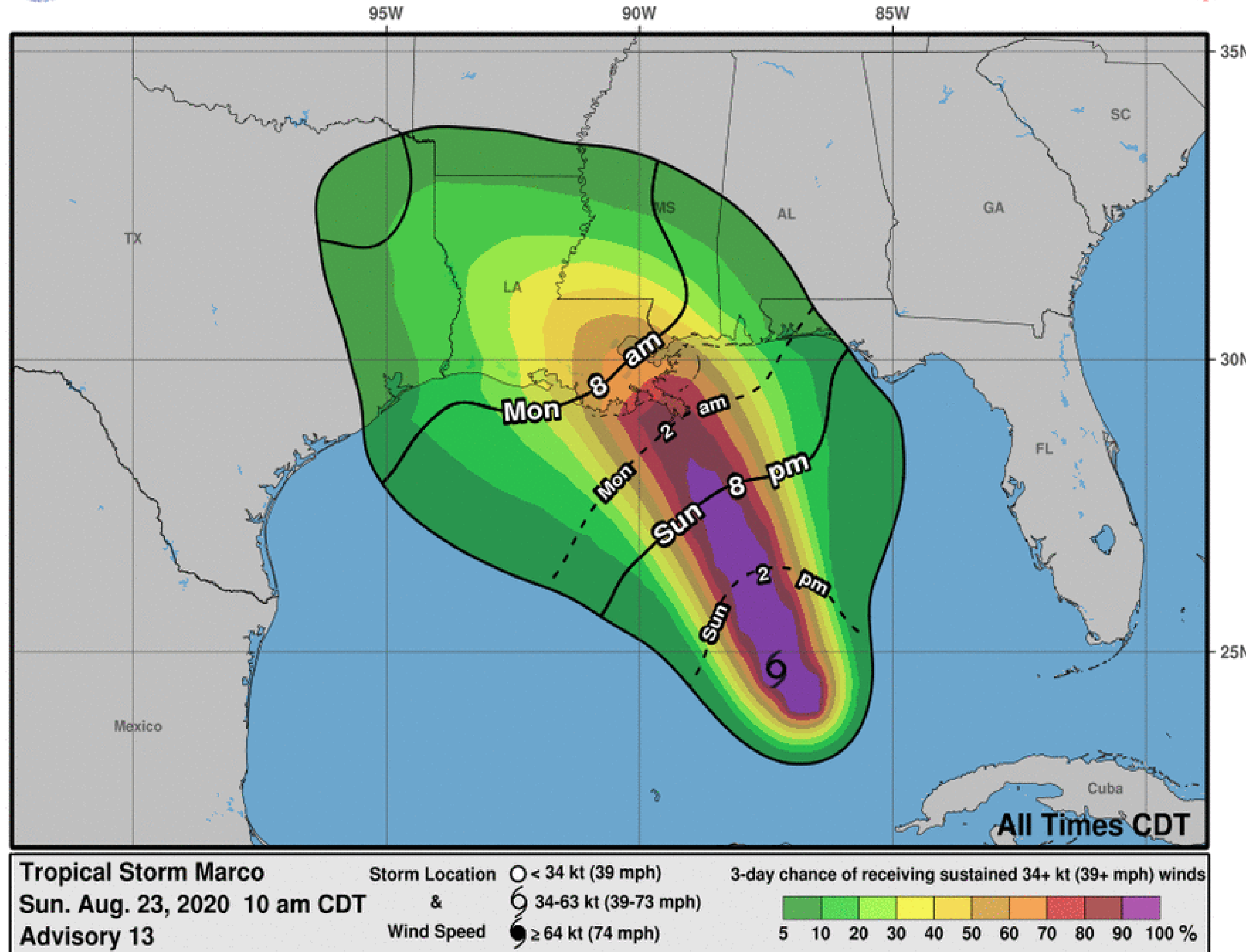
Earliest Reasonable Time of Arrival

Tropical Storm Marco



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0-3 Day Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



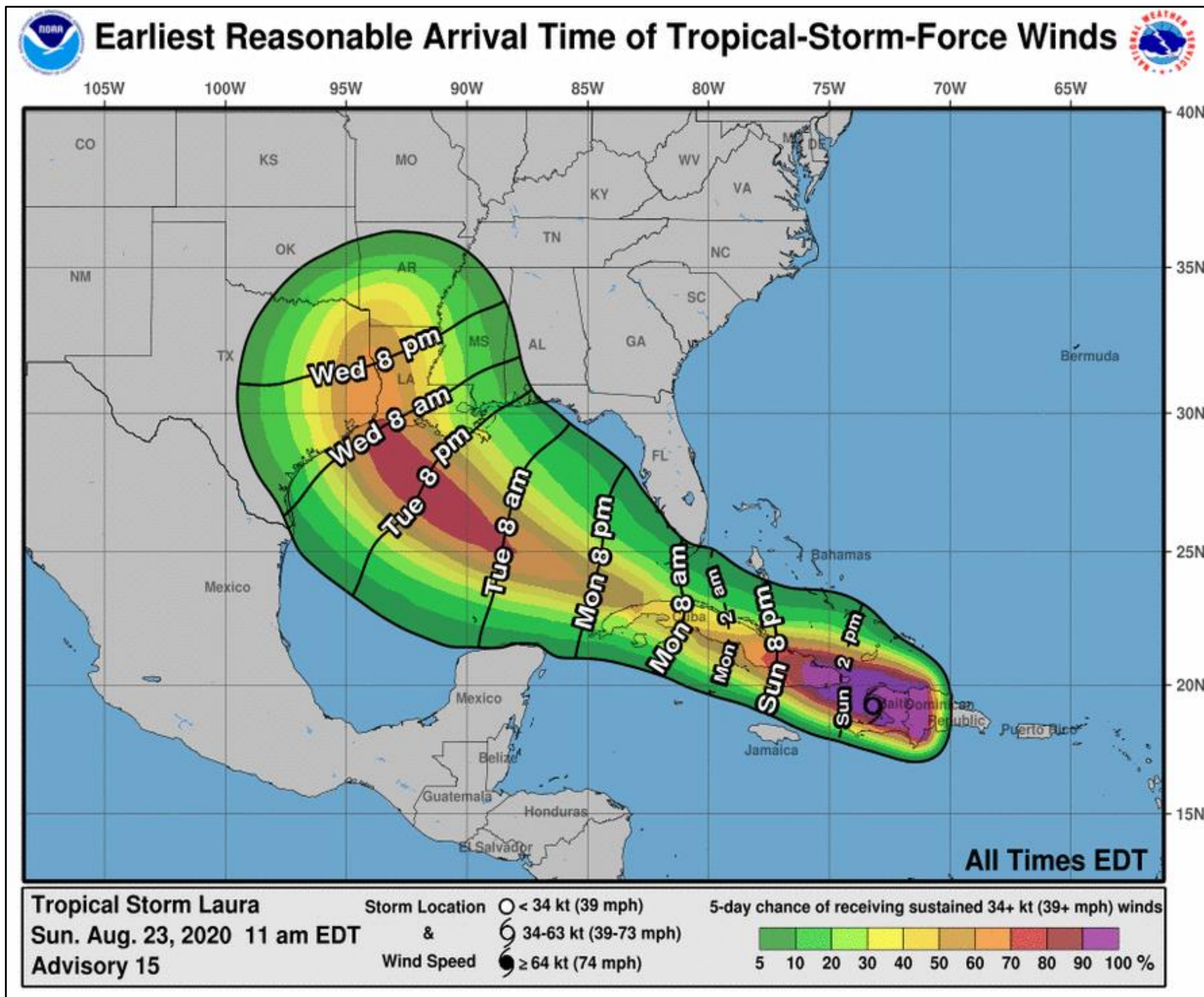
- **AL to SE Louisiana – Tonight**
- **W Louisiana to E Texas – Monday morning**
- The earliest reasonable time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange 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

Tropical Storm Laura



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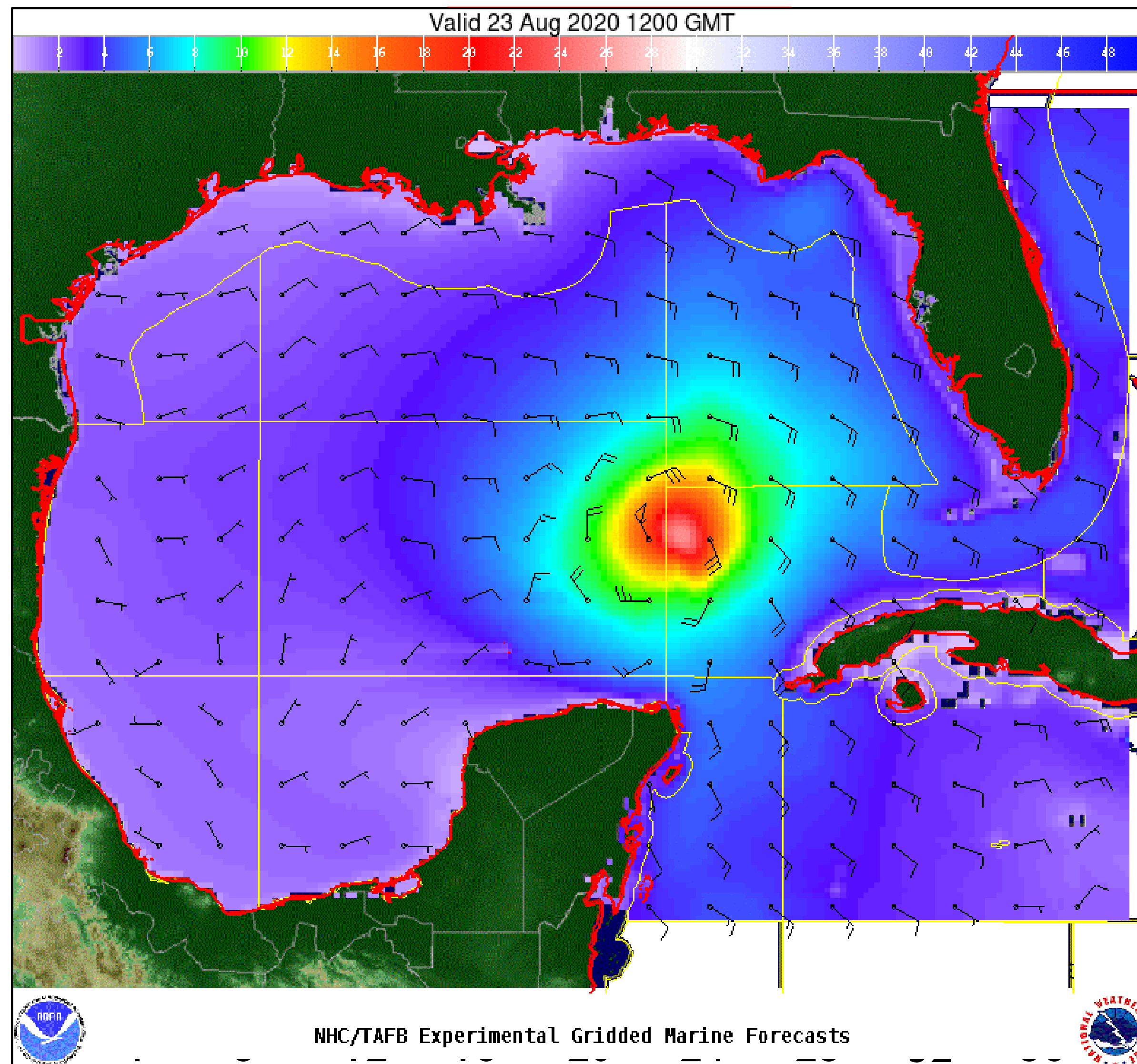
- MS/SE Louisiana – Tuesday night
- W Louisiana/E Texas – Wednesday morning
- The earliest reasonable time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 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 Marco and Laura



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Current Conditions

7am CDT, Sunday, August 23, 2020

Peak Winds: 60 kt (Marco)

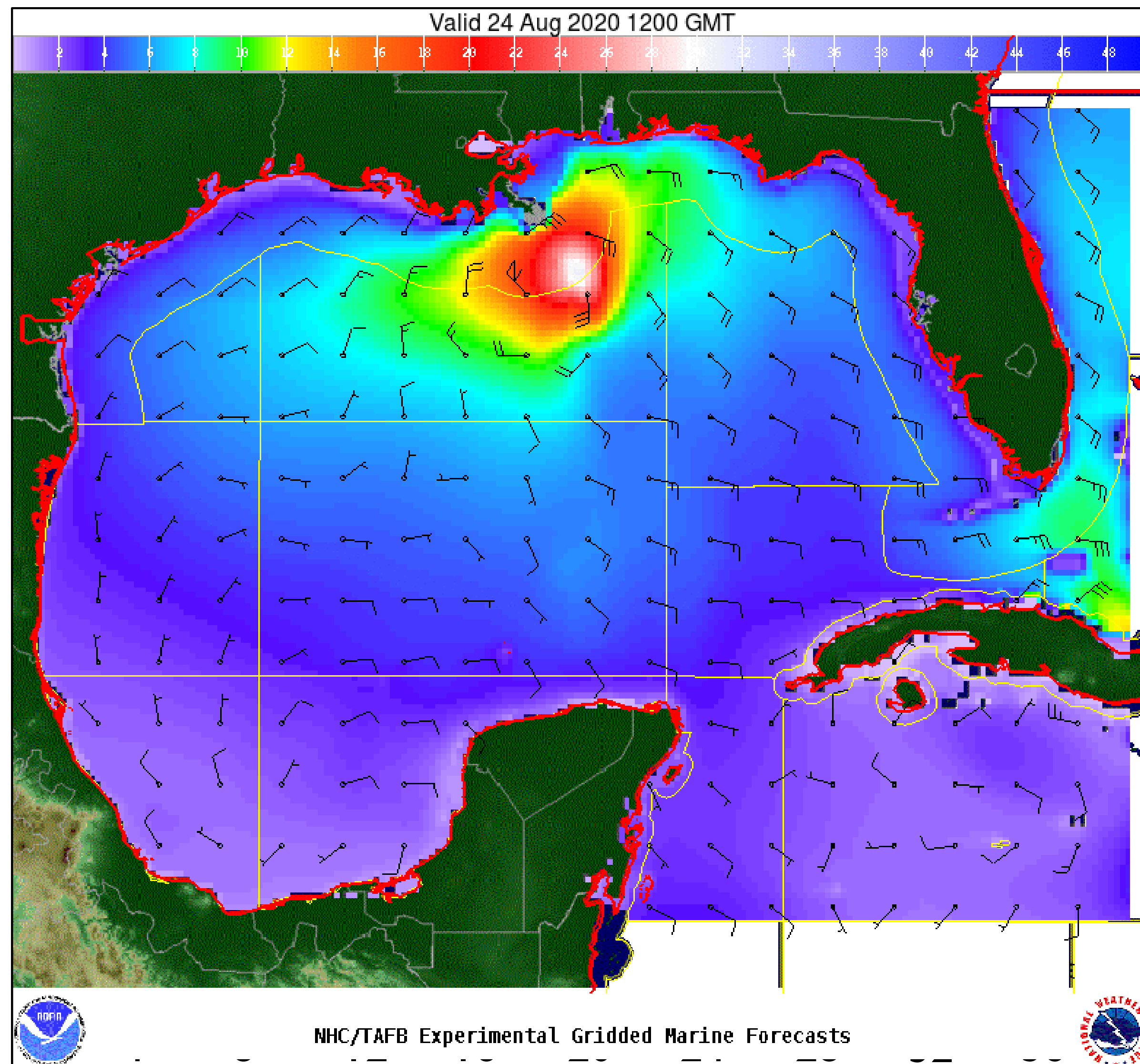
Peak Seas: 18 ft (Marco)

Wind And Waves

Tropical Storm Marco and Laura



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24 Hour Forecast

7am CDT, Monday, August 24th, 2020

Peak Winds: 65 kt (Marco)

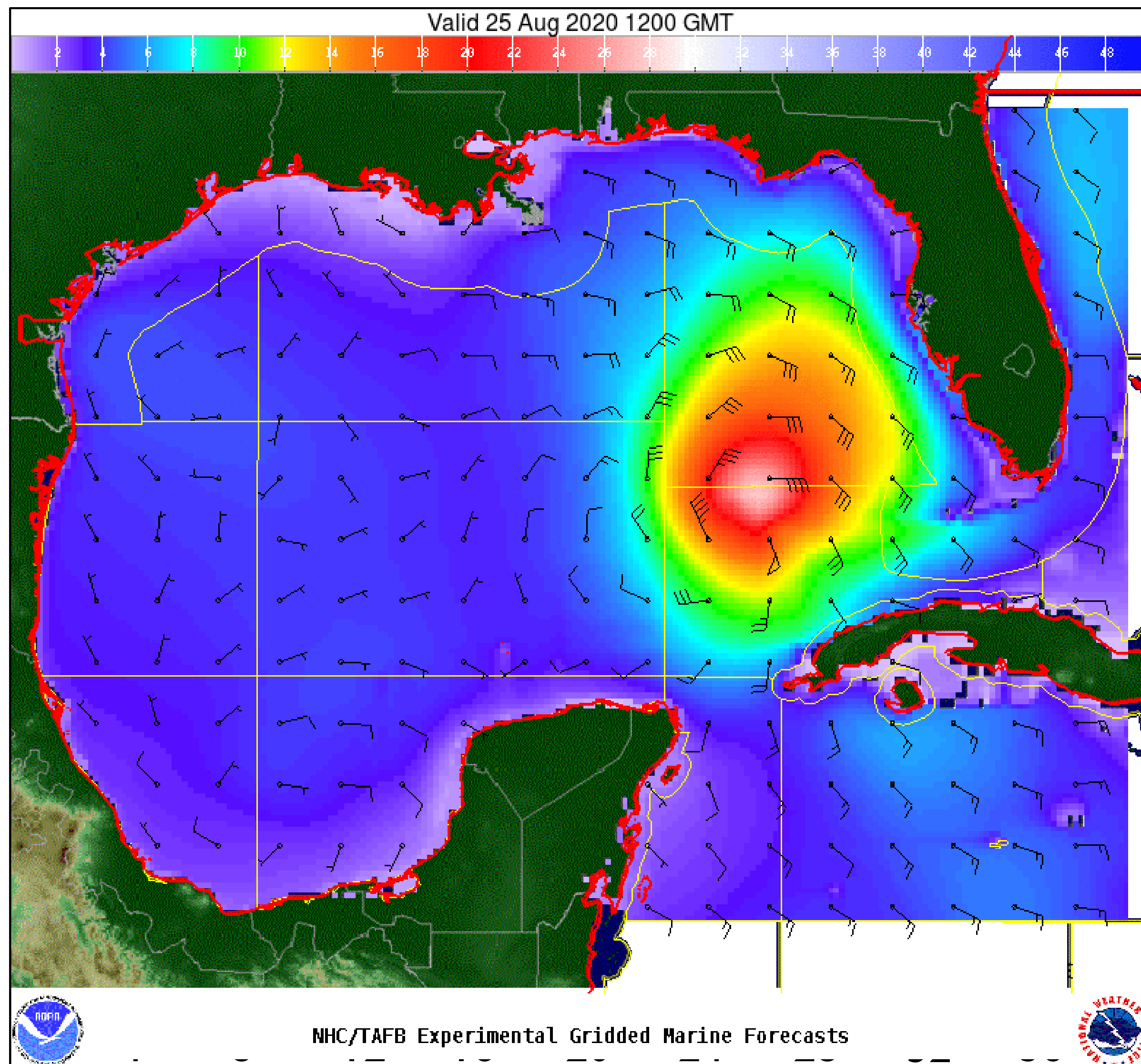
Peak Seas: 30 ft (Marco)

Wind And Waves

Tropical Storm Marco and Laura



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48 Hour Forecast

7am CDT, Tuesday, August 25, 2020

Peak Winds: 45 kt (Laura)

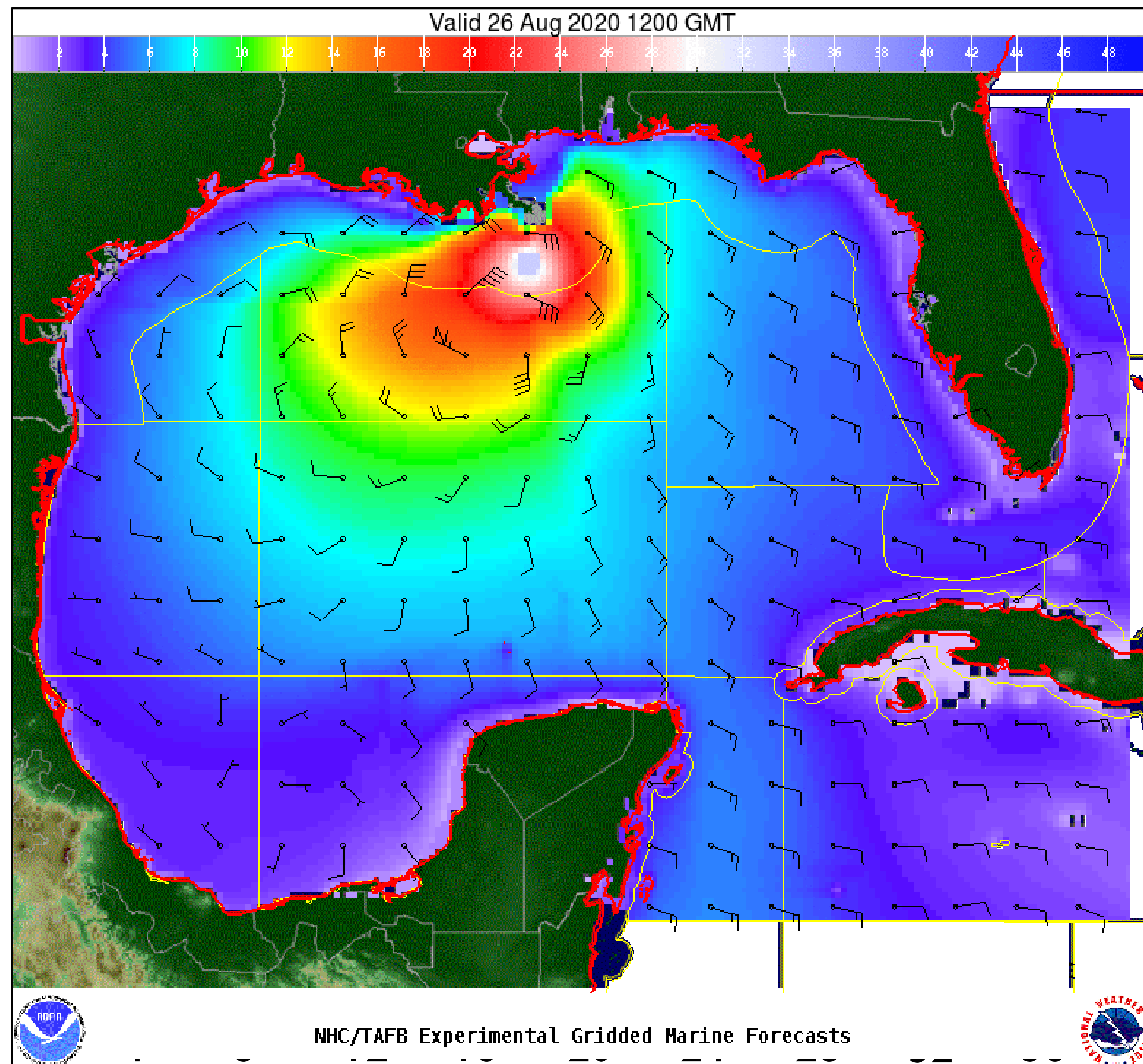
Peak Seas: 25 ft (Laura)

Wind And Waves

Tropical Storm Marco and Laura



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72 Hour Forecast

7am CDT, Wednesday, August 26th, 2020

Peak Winds: 75 kt (Laura)

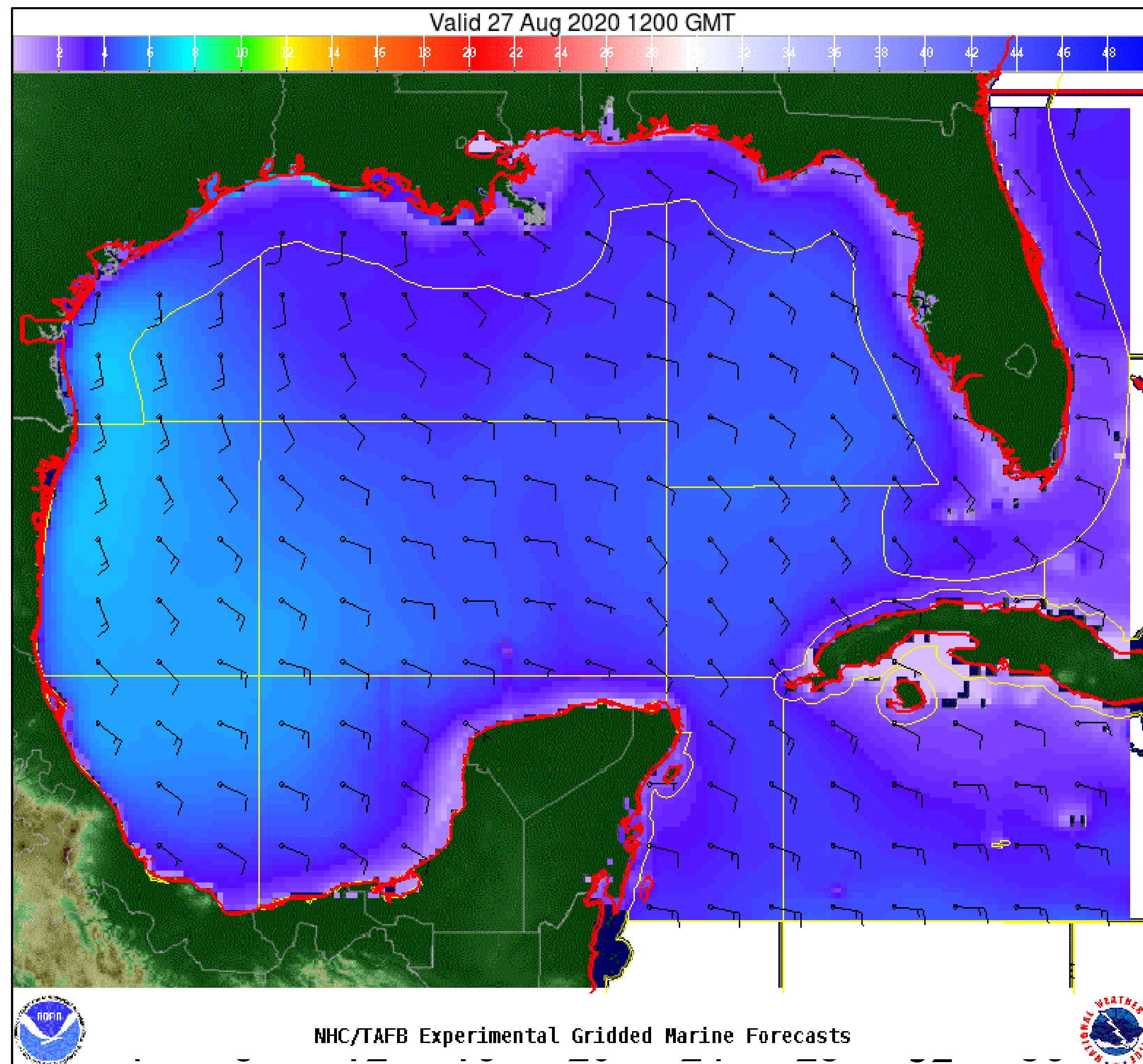
Peak Seas: 30 ft (Laura)

Wind And Waves

Tropical Storm Marco and Laura



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NWS National Hurricane Center



96 Hour Forecast

7am CDT, Thursday, August 27th, 2020

Peak Winds: 15 kt

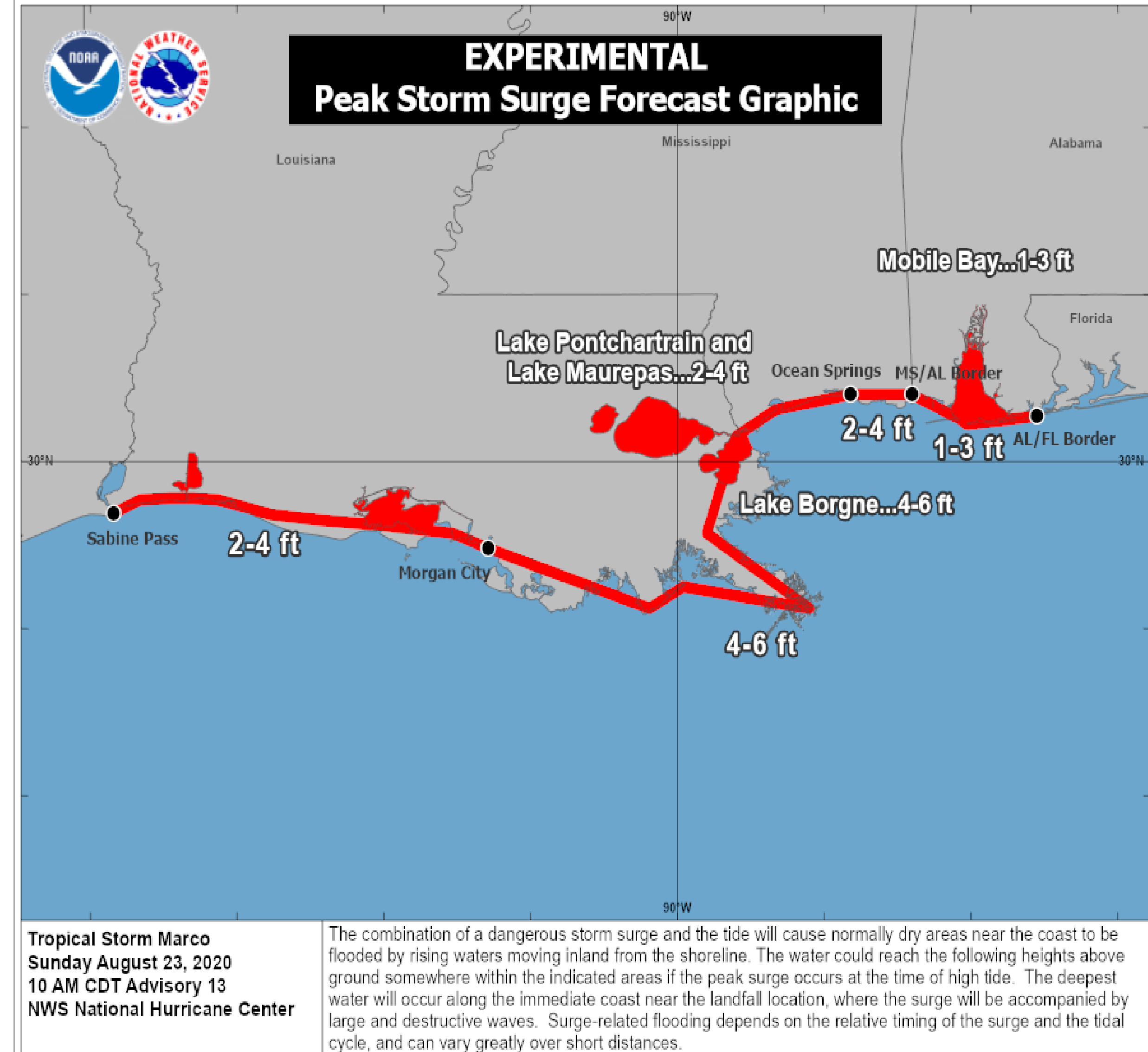
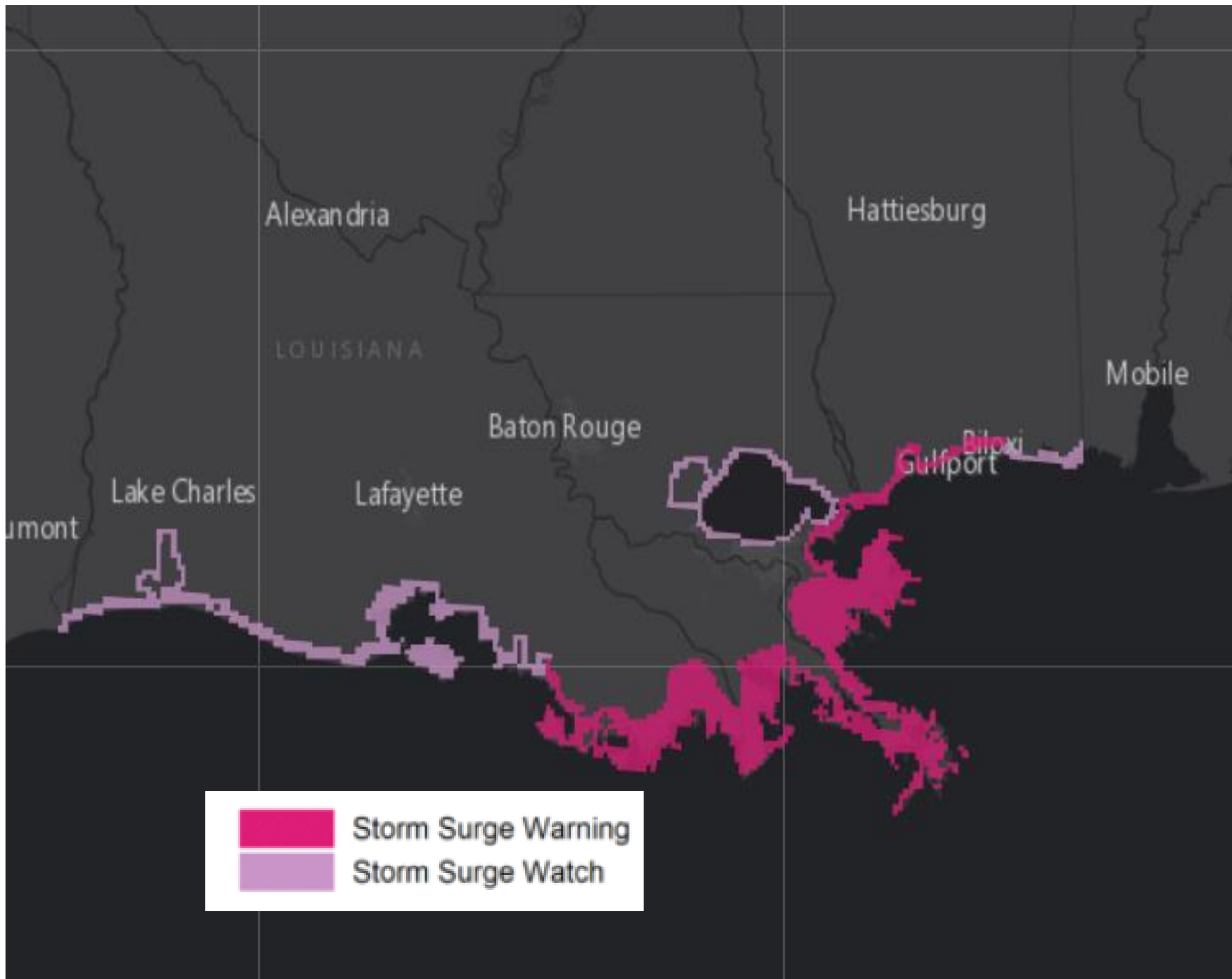
Peak Seas: 6 ft

Storm Surge Watches/Warnings

Tropical Storm Marco



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NWS National Hurricane Center

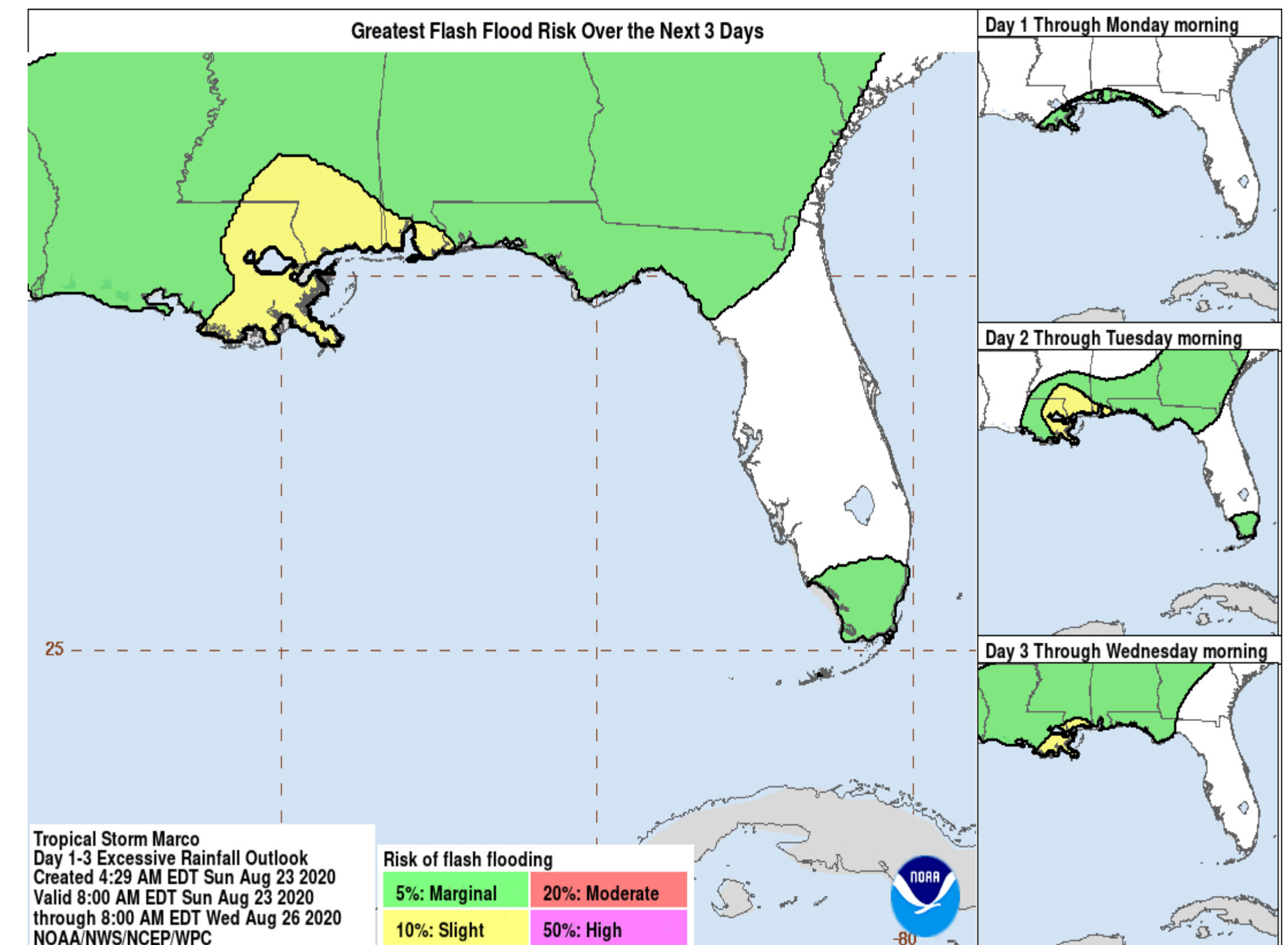
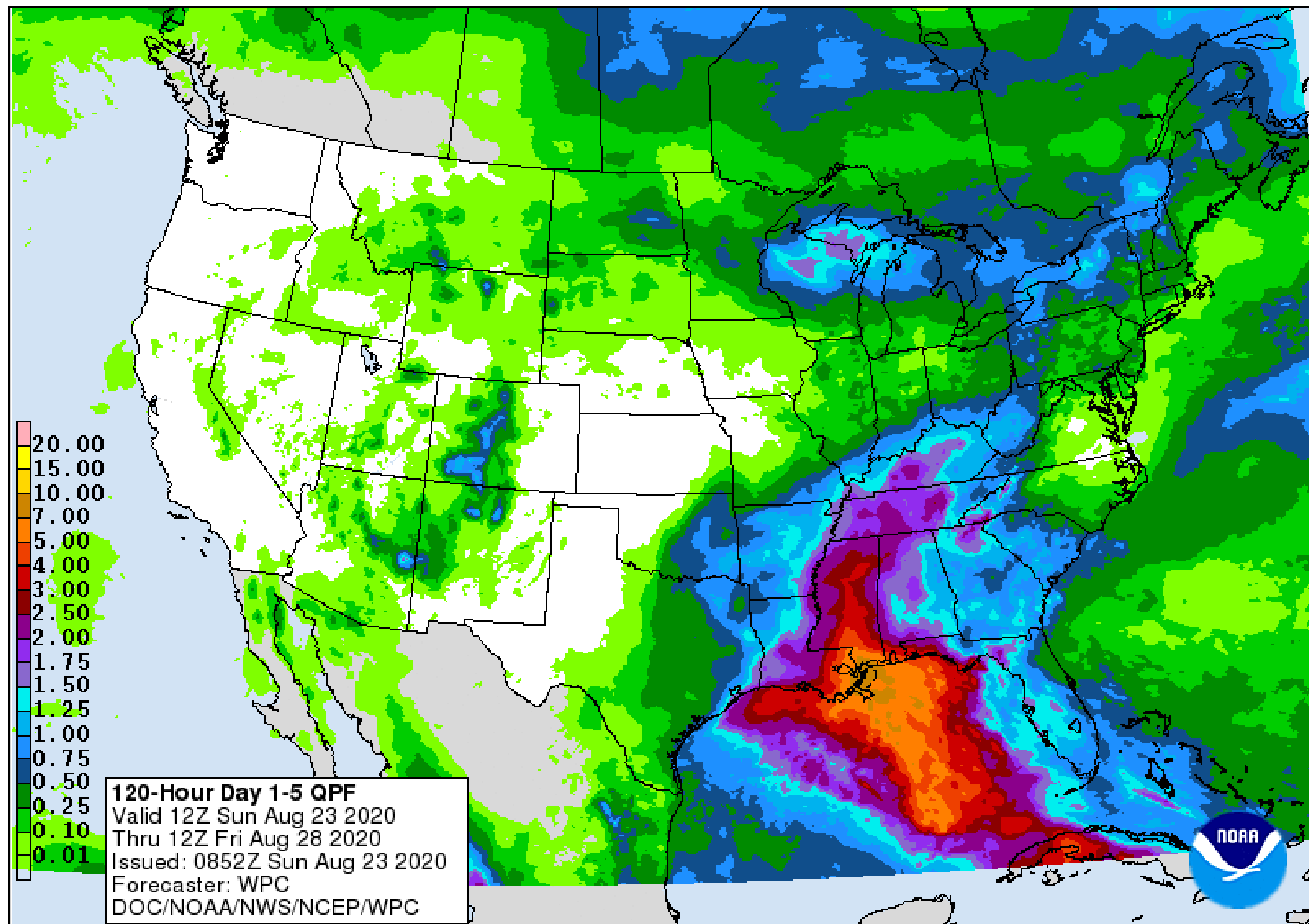


Expected Storm Total Rainfall

Tropical Storm Marco and Laura



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NWS National Hurricane Center



- Total rainfall in inches through Friday morning.

Risk of rainfall exceeding flash flood guidance within 25 miles of a point

HIGH: > 50% **SLGT: 10%-20%**

MDT: 20%-50% **MRGL: 5%-10%**

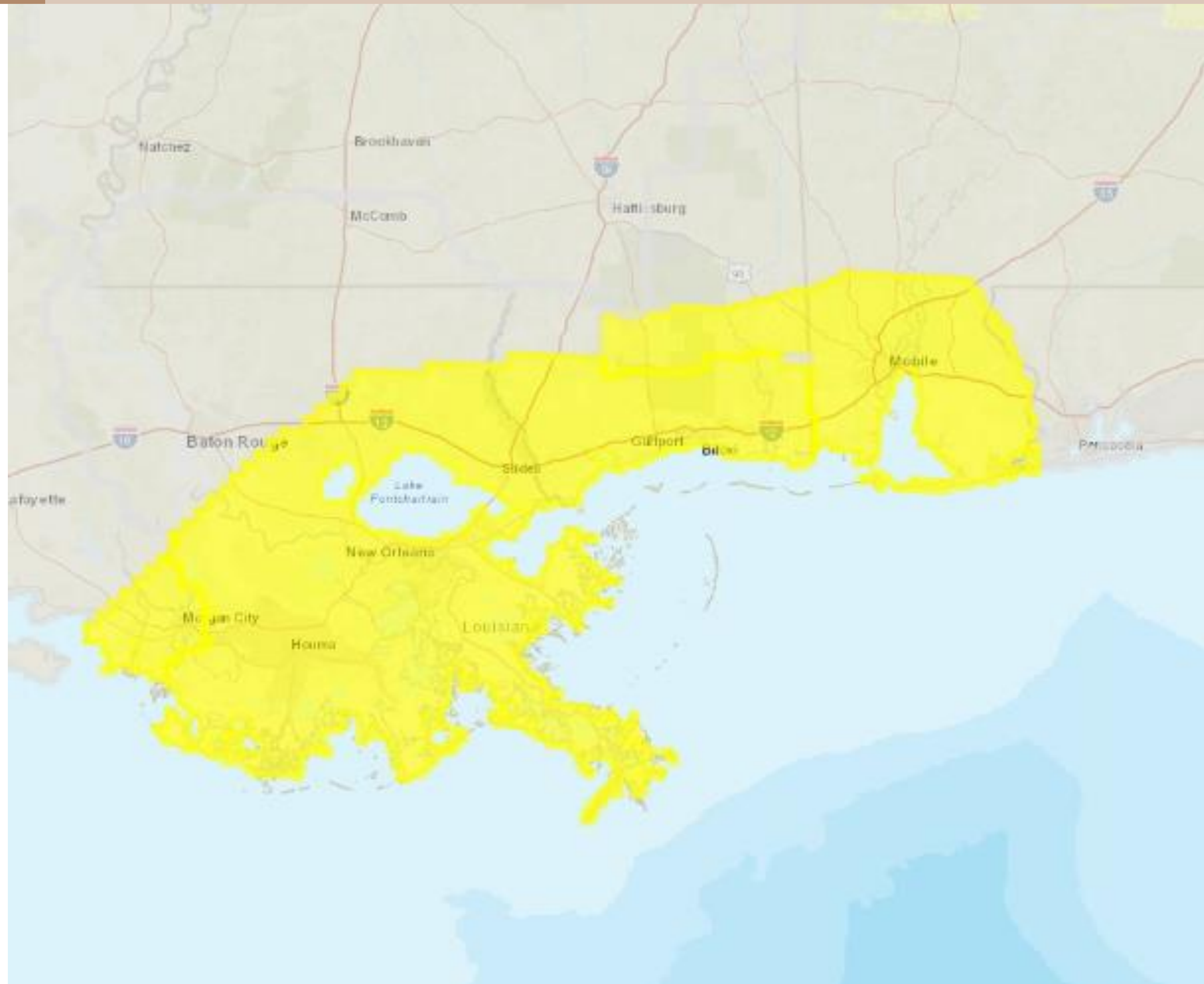
Now through Wednesday morning

Tornado Outlook

Tropical Storm Marco



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NWS National Hurricane Center





- Potential for a few tornadoes

Key Messages

Tropical Storm Marco and Laura



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NWS National Hurricane Center




Key Messages for Tropical Storm Laura

Advisory 15: 11:00 AM EDT Sun Aug 23, 2020

1. Tropical storm conditions are expected across portions of the Dominican Republic and Haiti, the Turks and Caicos, the southeastern Bahamas, and Cuba through Monday. Heavy rainfall is likely across these areas and could cause mudslides and life-threatening flash and urban flooding.
2. Tropical storm conditions are possible over the central Bahamas and Andros Island tonight and Monday, and in the Florida Keys on Monday.
3. While the details of the long-range track and intensity forecasts remain uncertain, Laura is forecast to strengthen over the Gulf of Mexico and there is an increasing risk of storm surge, rainfall, and wind impacts along portions of the U.S. Gulf Coast by the middle of the week. This could result in a prolonged period of hazardous weather for areas that are likely to be affected by Marco earlier in the week. Interests along the Gulf Coast should monitor the progress of Laura and Marco and updates to the forecast during the next few days.

For more information go to hurricanes.gov



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 Laura
Sunday August 23, 2020
11 AM EDT Advisory 15
NWS National Hurricane Center

Current information: x
Center location 19.2 N 73.2 W
Maximum sustained wind 50 mph
Movement WNW at 21 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 Laura
Sun. Aug. 23, 2020 11 am EDT
Advisory 15

Storm Location: ○ < 34 kt (39 mph) ● 34-63 kt (39-73 mph) ● > 64 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 %

- Marine Key Messages:
- Currently Marco has a small area of 12ft sea with peak to 18 ft
- Seas to reach 30 ft on Monday off of Louisiana and Mississippi
- Laura will then boost seas to 30 ft on Tuesday and Wednesday in eastern and central Gulf
- Conditions return to normal on Thursday



TROPICAL STORM MARCO AND LAURA BRIEFING

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

*The Next Briefing Will Be:
Monday / 1:00 AM CDT*

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



NHC_TAFB

www.nhc.noaa.gov