

IMPACTS FOR D8 (through next 5 days)

Winds – Low

Storm Surge – Low

Rainfall/Flash Flooding – Low

Tornadoes – Low

Waves - Low

TROPICAL DEPRESSION FOUR BRIEFING

11:00 AM CDT

Saturday, August 3, 2024

Prepared by:

Amanda Reinhart

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

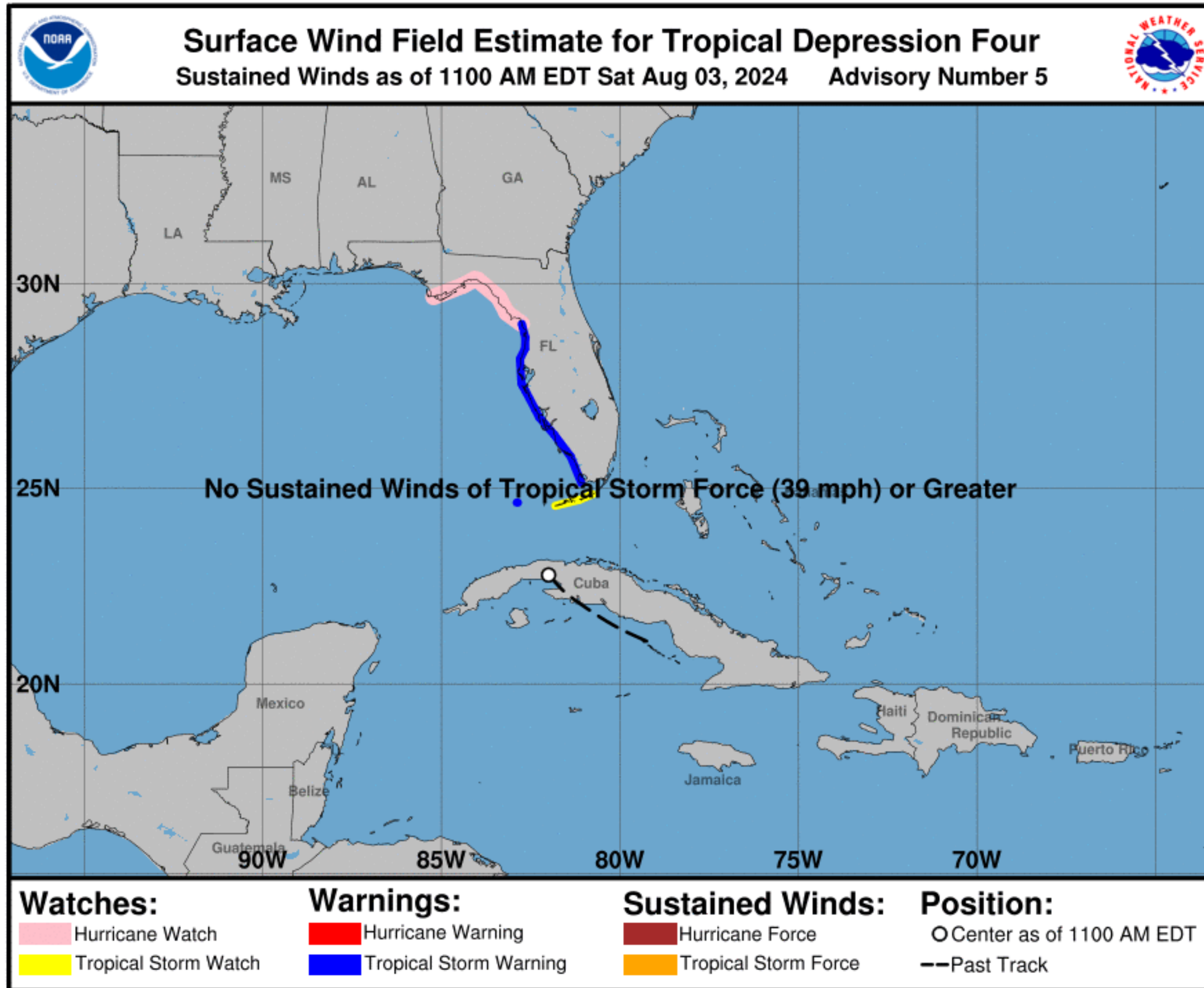


Situation Overview

Tropical Depression Four



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NWS National Hurricane Center



...DEPRESSION EXPECTED TO BECOME A TROPICAL STORM LATER TODAY OR TONIGHT AND STRENGTHEN OVER THE SOUTHEASTERN GULF OF MEXICO...

...NEW WATCHES AND WARNINGS ISSUED FOR PORTIONS OF FLORIDA...

Summary of 11am EDT Information

Location...22.8N 82.0W

About 35 nm SE of Havana Cuba

About 110 nm S of Key West Florida

Maximum Sustained Winds...30 kt

Present Movement... WNW at 13 kt

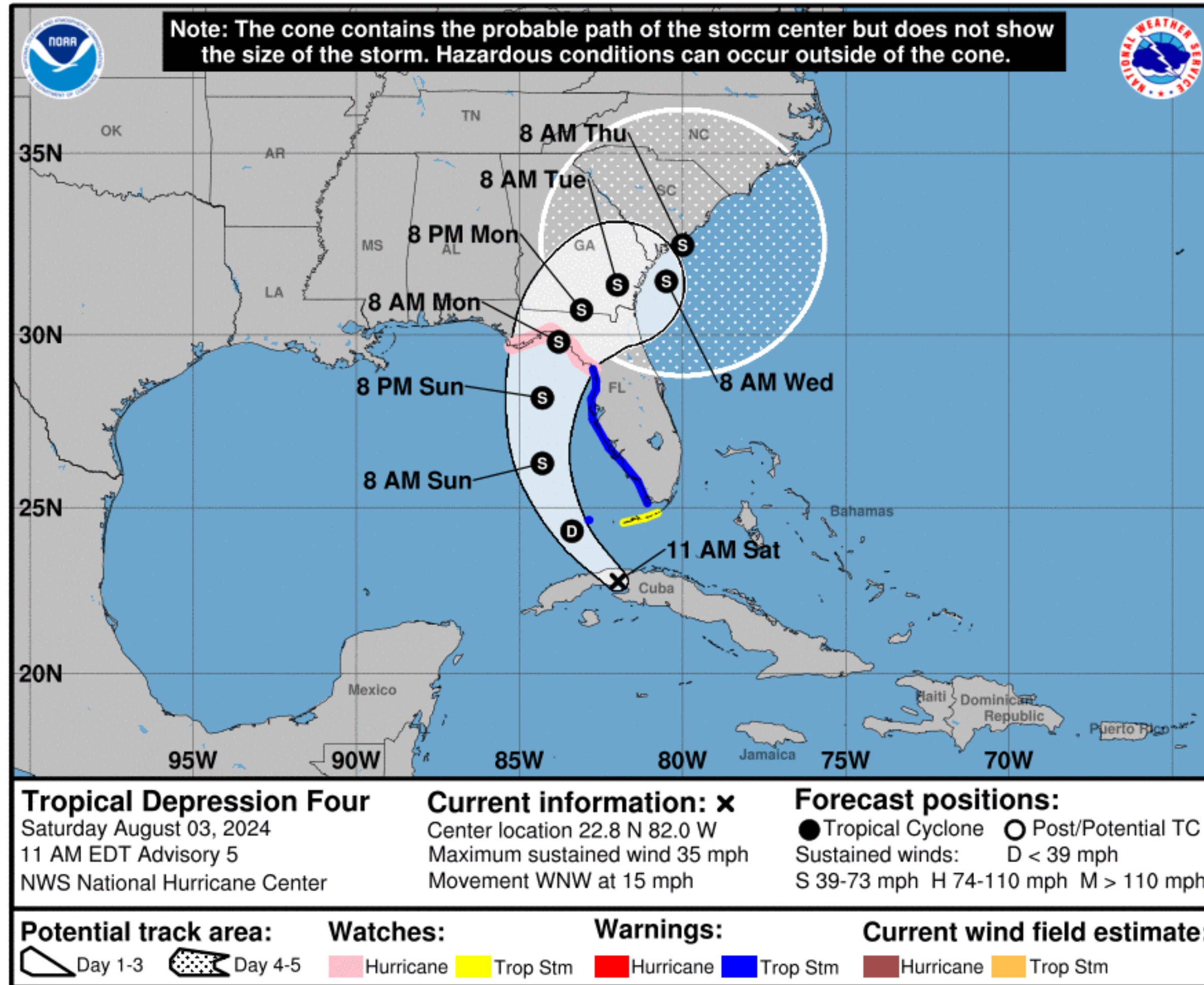
Peak Seas: 7 ft

Forecast Information

Tropical Depression Four



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NWS National Hurricane Center



- A tropical depression is located over western Cuba and is expected to move into the Gulf this afternoon/evening
- The system will turn NW then N today through Sunday with the system making landfall somewhere between Tampa and Apalachicola Sunday night into Monday morning
- On the forecast track, Four is expected to become a tropical storm by tonight with potential of becoming a hurricane before it makes the Florida landfall
- Current center forecast positions through the next 5 days (if applicable) illustrated by dots
- White swath of potential track error added to each side of the forecast track through day 3
- Hatched swath of potential track error added to each side of the forecast track days 4-5

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

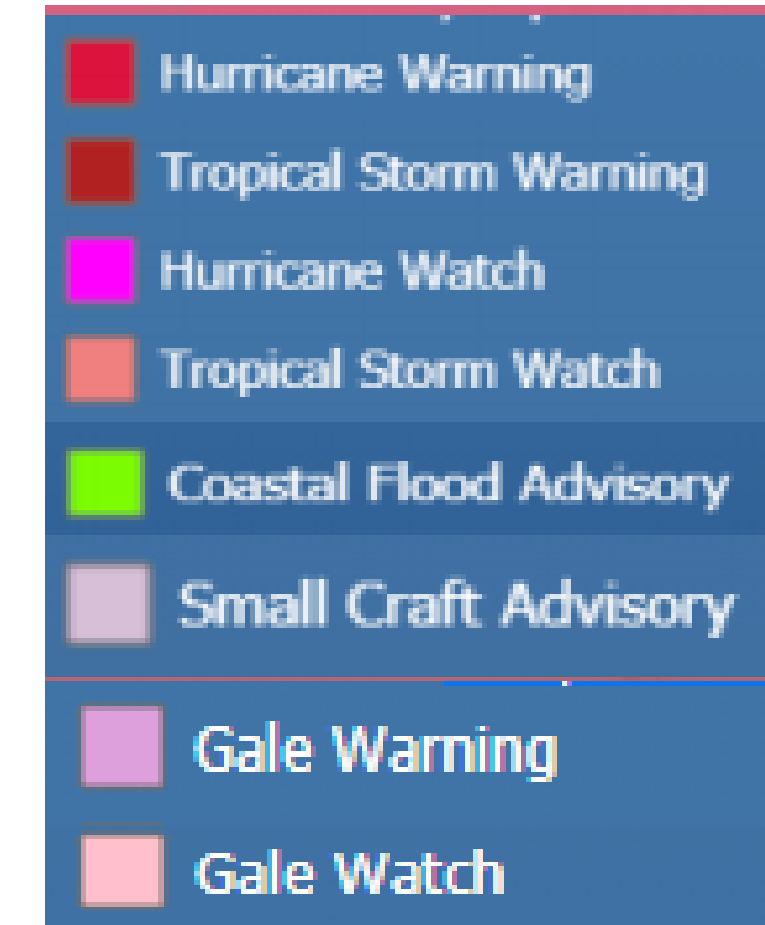
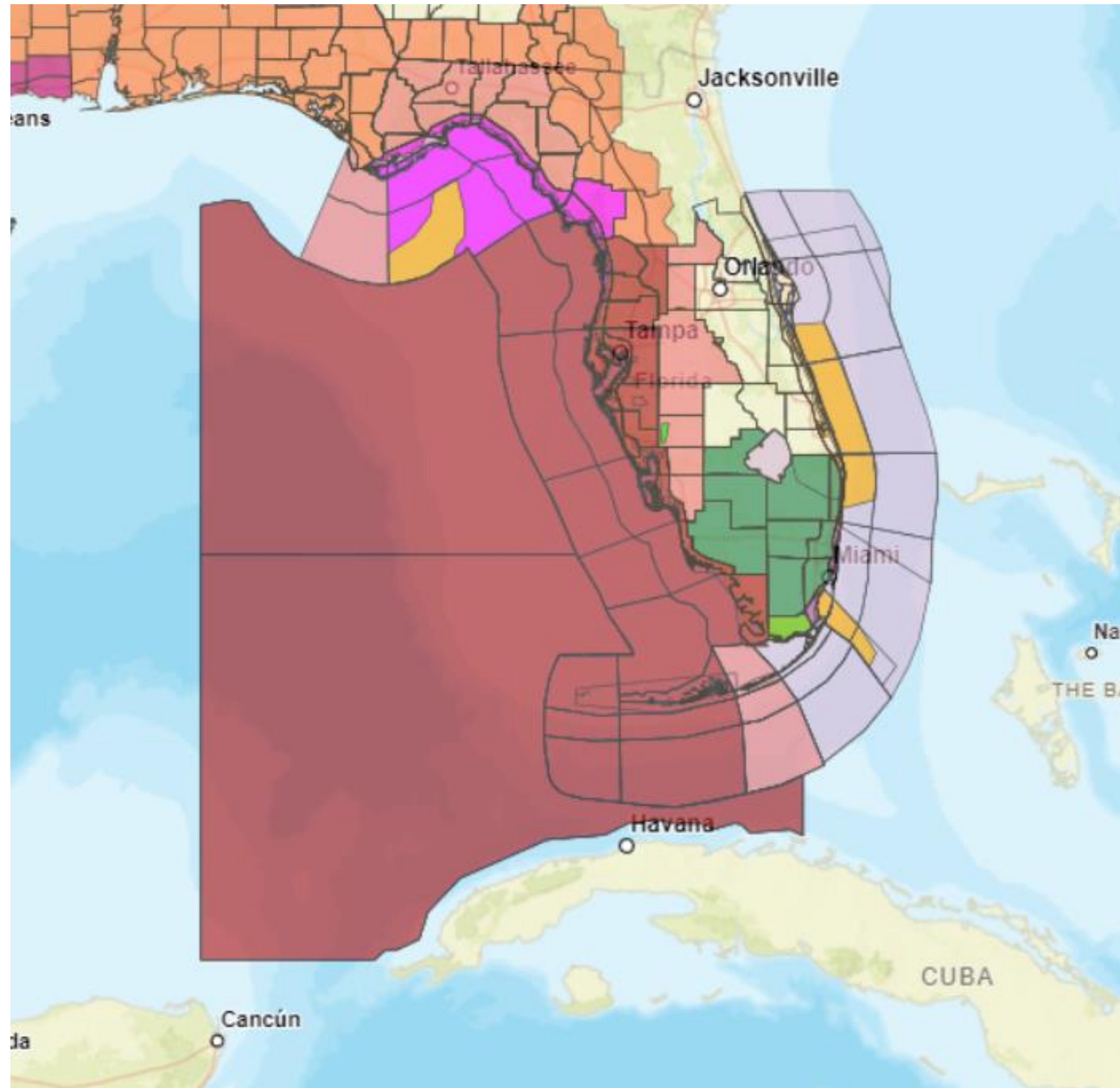
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Depression Four



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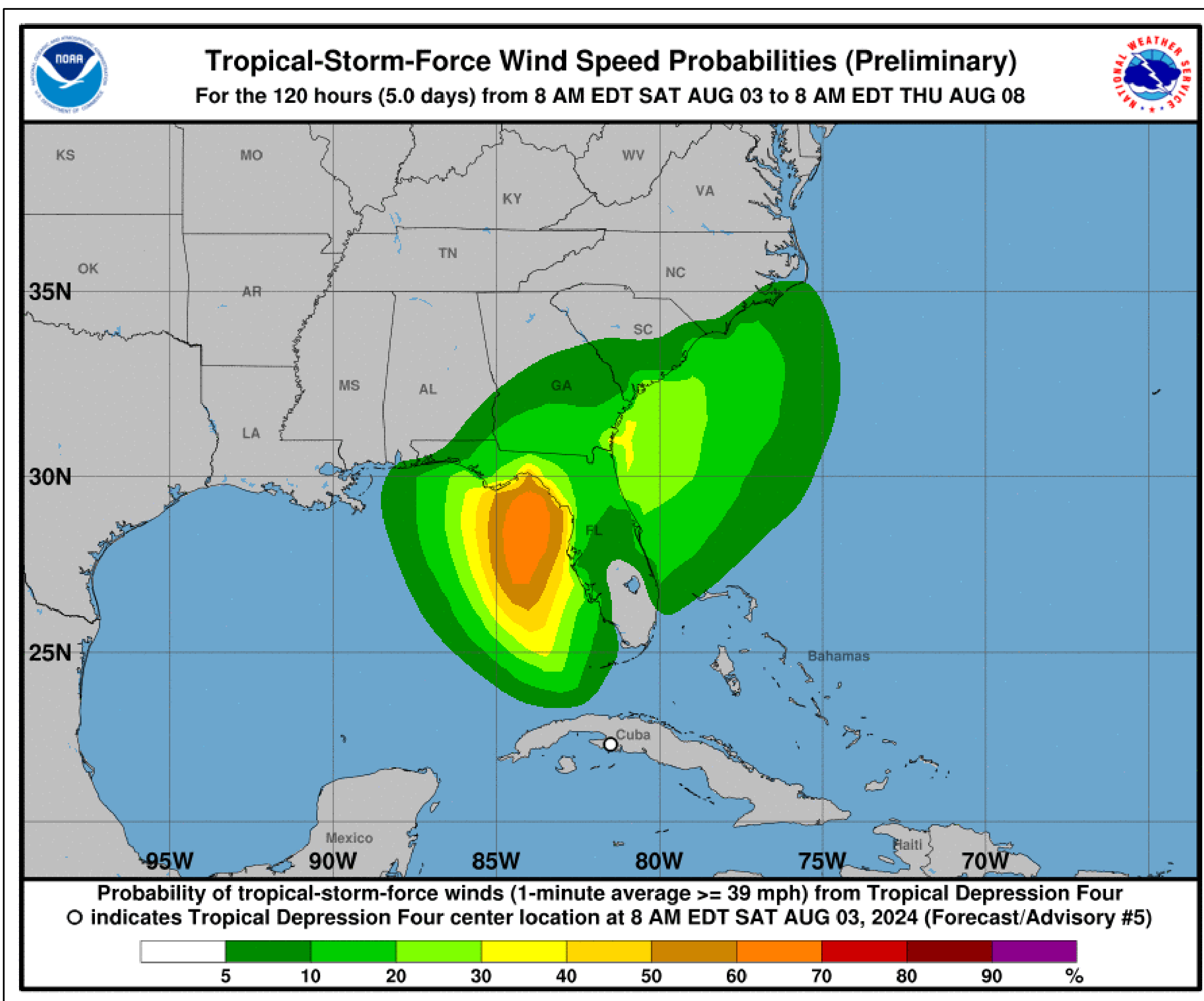


T.S. Wind Speed Probabilities

Tropical Depression Four



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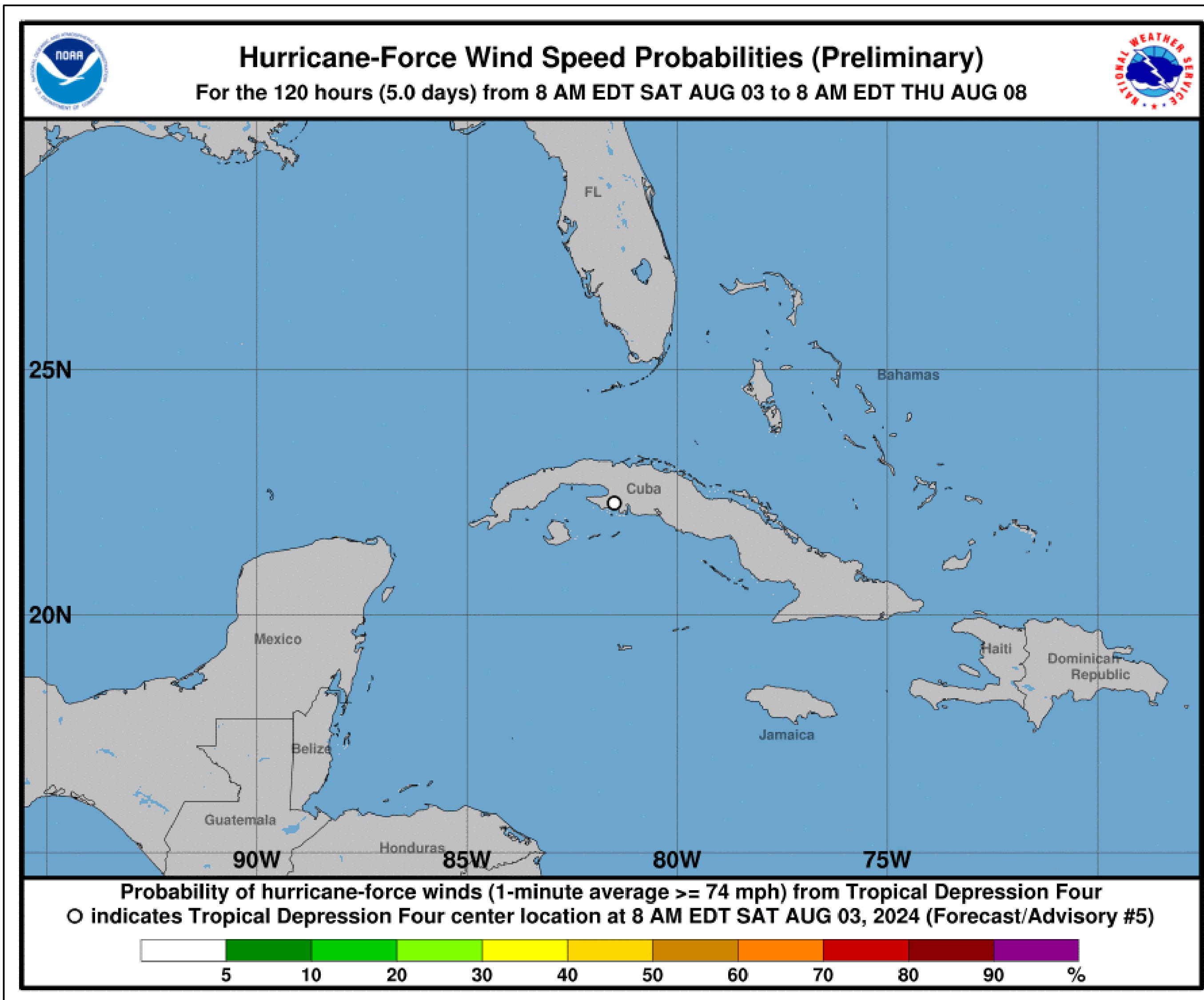
- **TALLAHASSEE 20%**
 - **APALACHICOLA 50%**
 - **PANAMA CITY 35%**
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
 - Clear or dark green are the lowest chances of 0-30%.
 - Yellow to orange is 31-70%
 - Red through purple are the highest probabilities of 71%-100%
 - See the color bar below the image for more details.

Hurricane Wind Speed Probabilities



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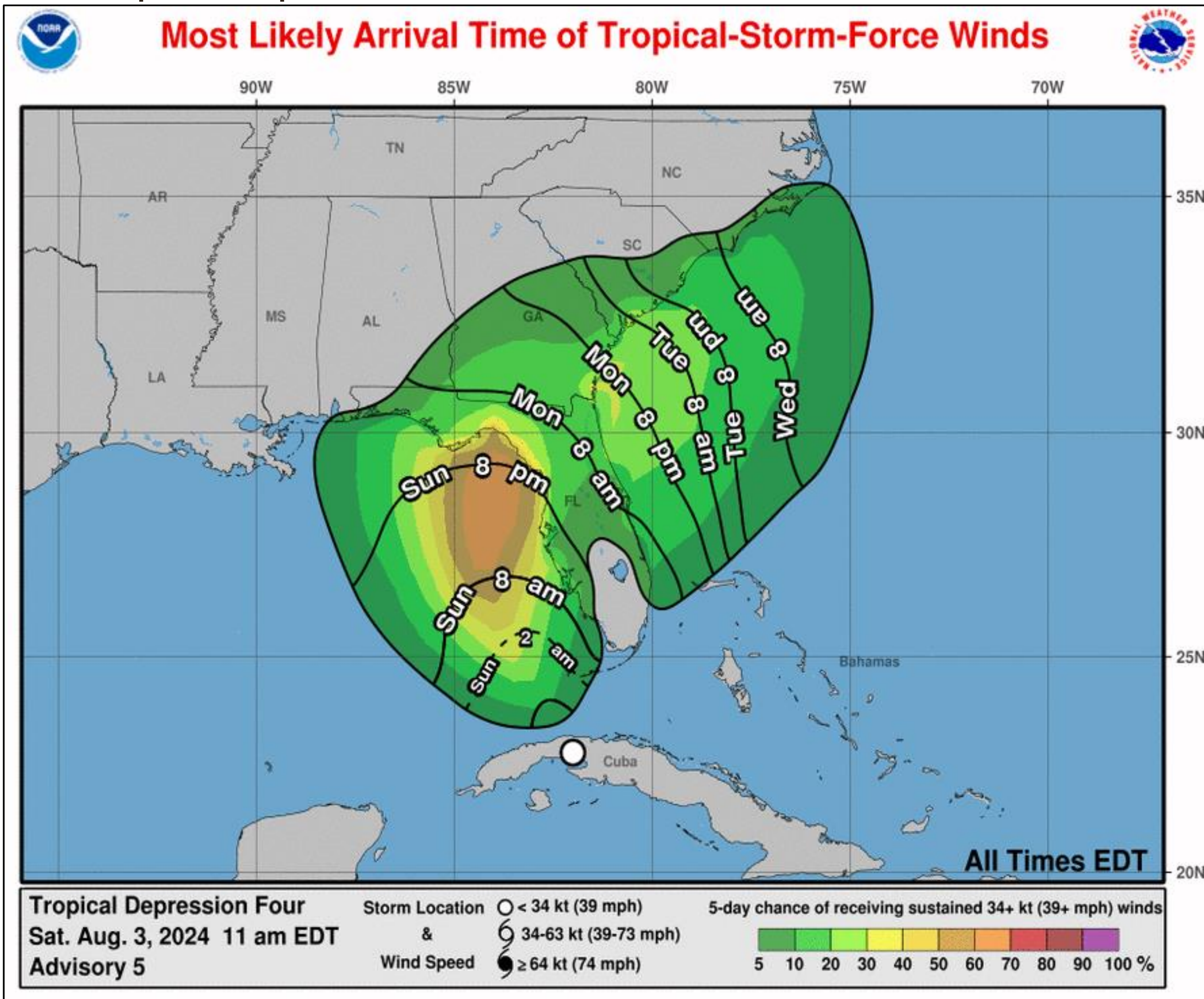
Tropical Depression Four



- **APALACHICOLA <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.



Tropical Depression Four



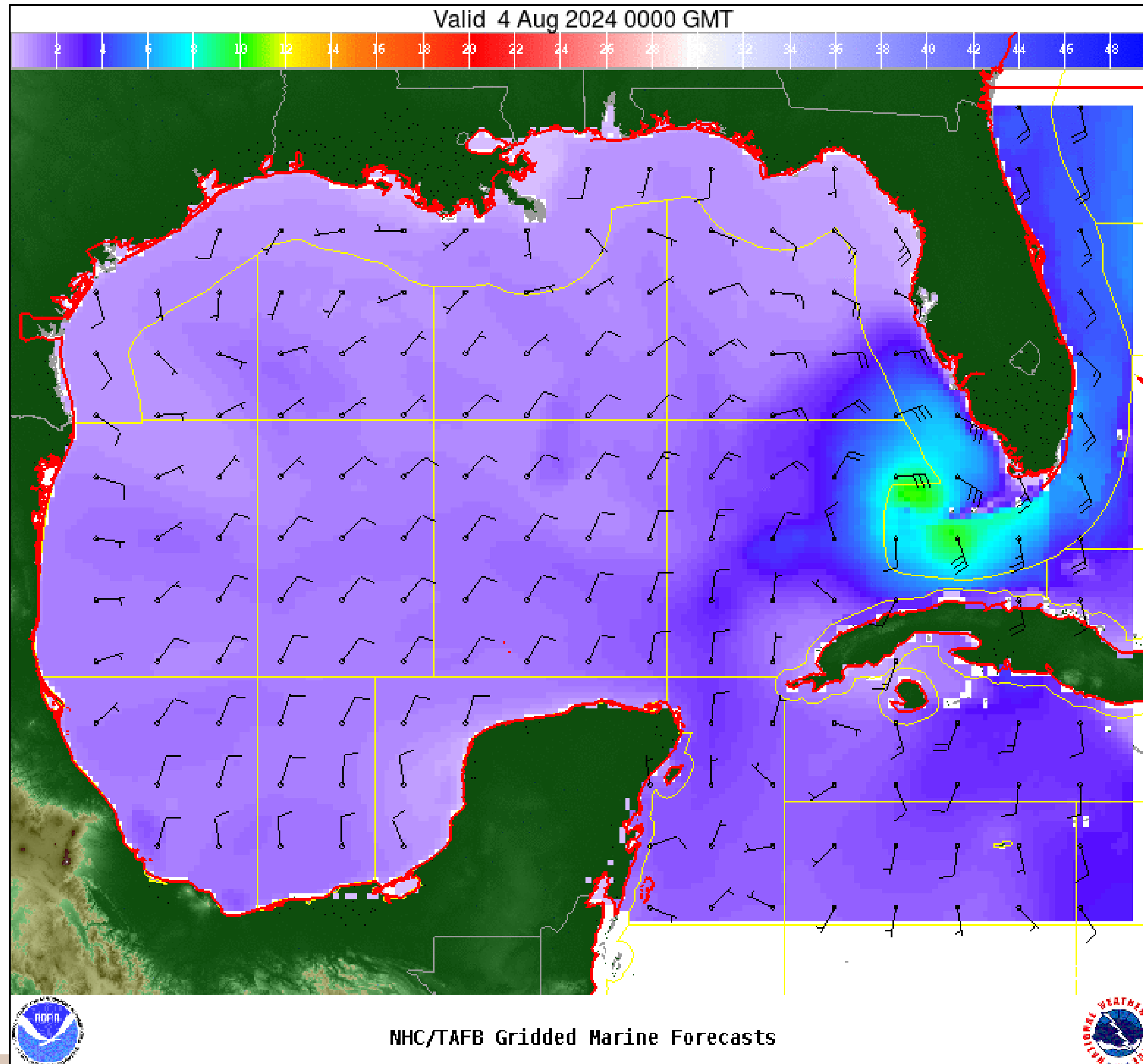
- Southwest Florida: early Sunday morning
- Tampa Bay: Sunday afternoon/evening
- Florida Big Bend: Sunday night
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 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 Depression Four



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12 Hour Forecast

Saturday, Aug 3rd at 7pm CDT

Peak Winds: 30 kt

Peak Seas: 10 ft

■ Wave heights are in feet



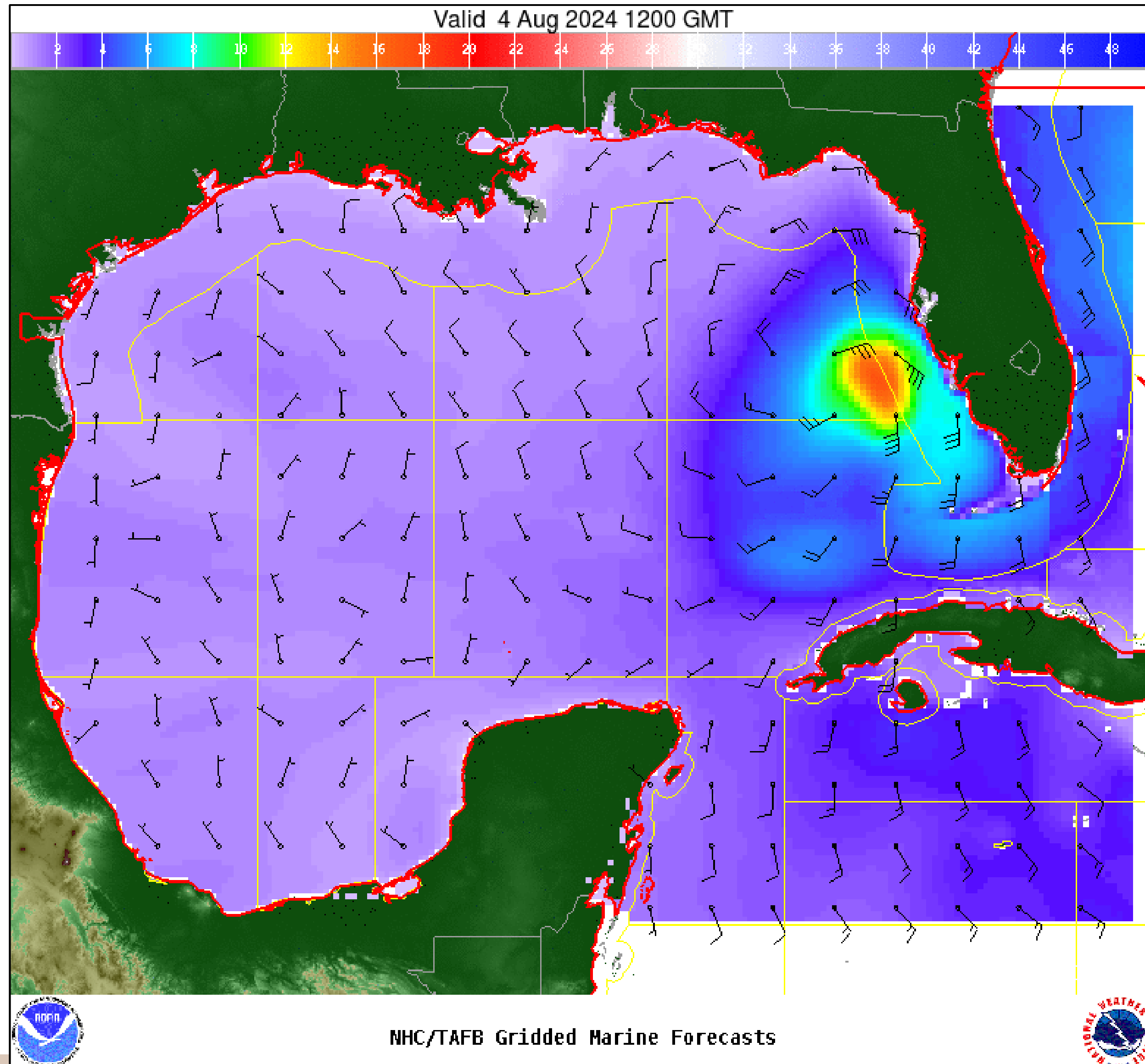
Significant Wave Height (ft)

Wind And Waves

Tropical Depression Four



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24 Hour Forecast

Sunday, Aug 4th at 7am CDT

Peak Winds: 40 kt

Peak Seas: 17 ft

■ Wave heights are in feet



Significant Wave Height (ft)

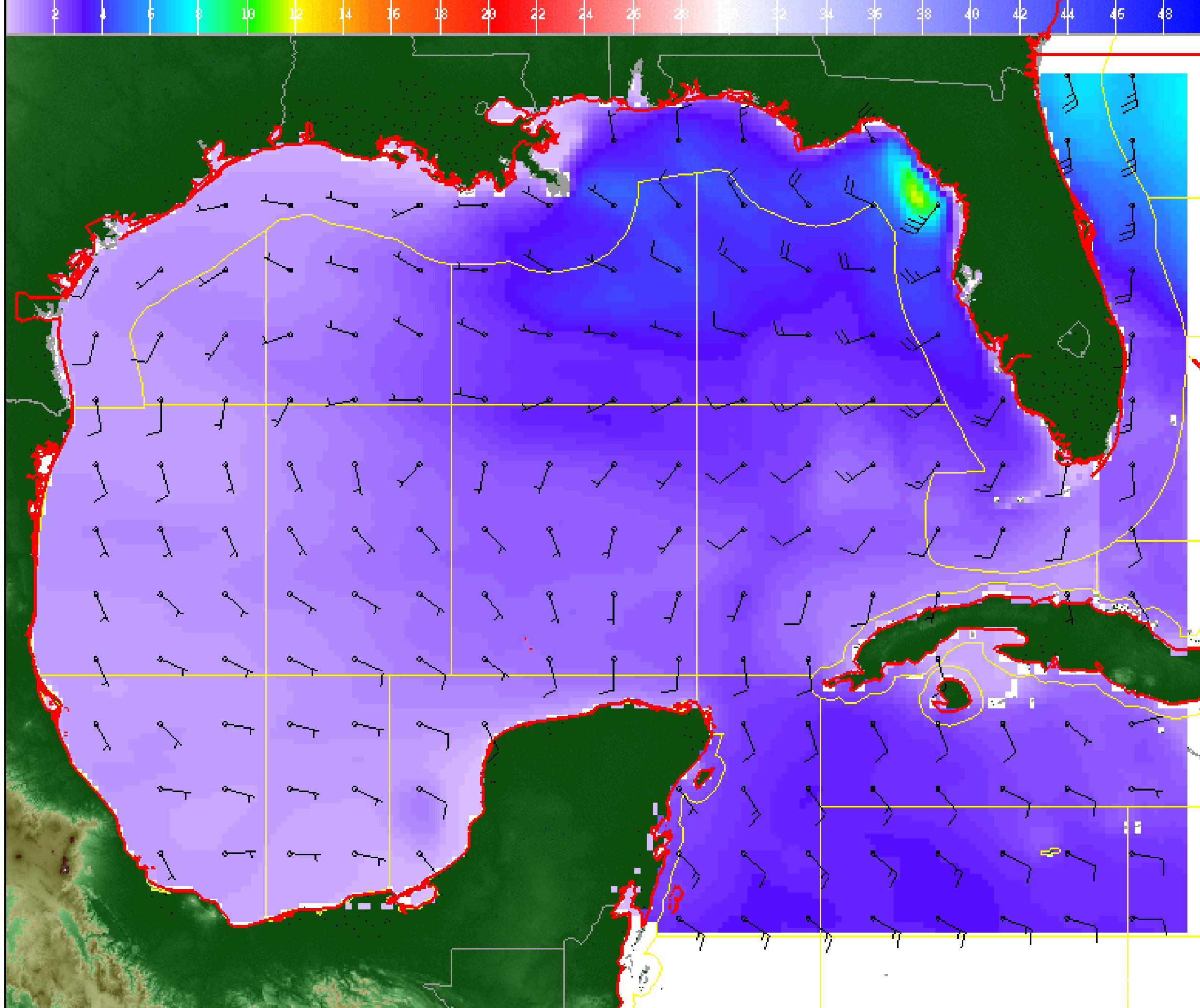
Wind And Waves

Tropical Depression Four



Tropical Analysis and Forecast Branch
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Valid 5 Aug 2024 1200 GMT



48 Hour Forecast

Monday, Aug 5th at 7am CDT

Peak Winds: 60 kt

Peak Seas: 12 ft

■ Wave heights are in feet



Significant Wave Height (ft)



NHC/TAFB Gridded Marine Forecasts



8/3/2024 11:48 AM

www.nhc.noaa.gov

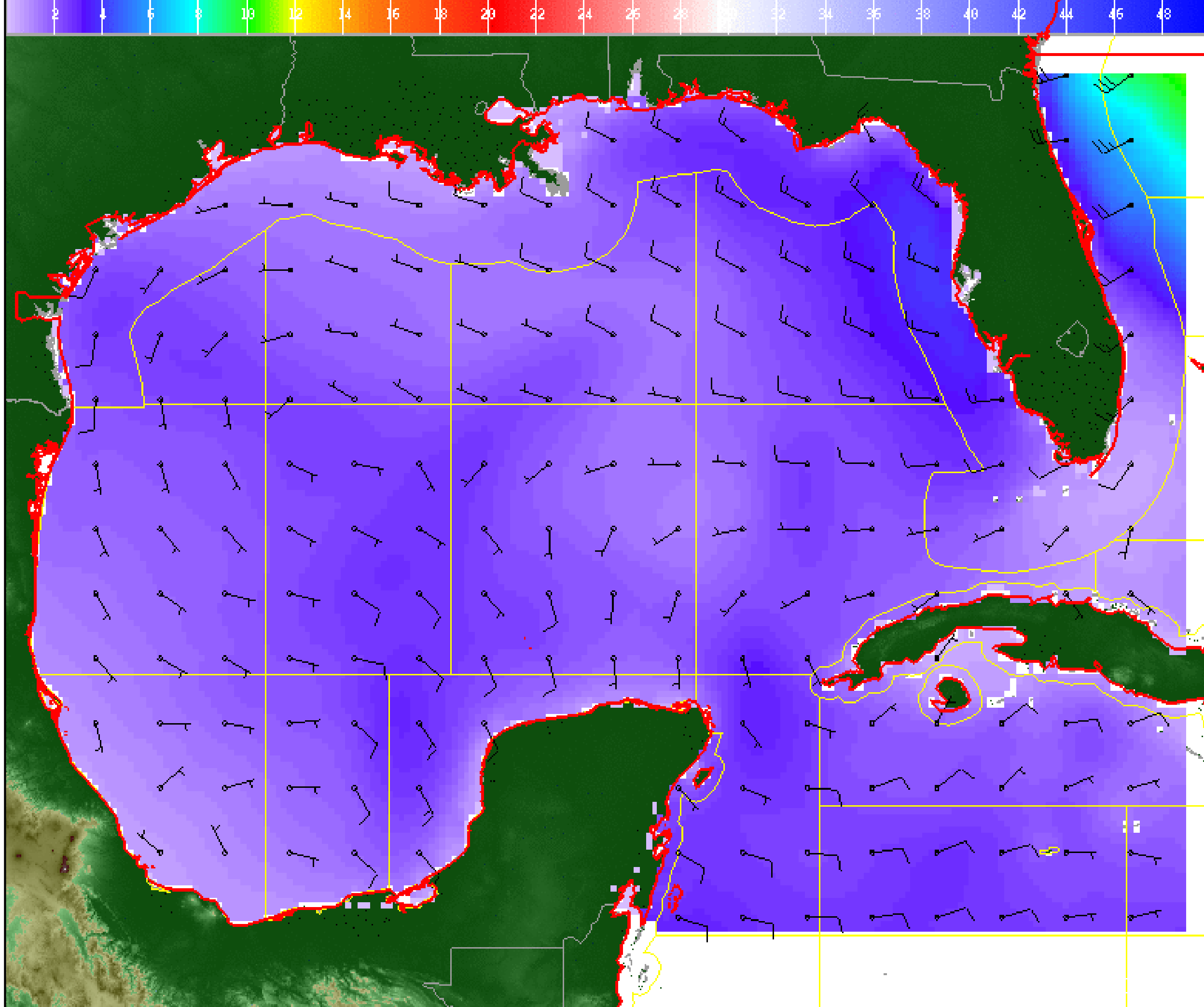
Wind And Waves

Tropical Depression Four



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Valid 6 Aug 2024 1200 GMT



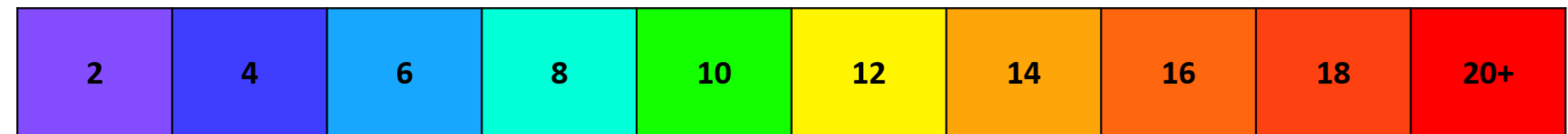
72 Hour Forecast

Tuesday, Aug 6th at 7am CDT

Peak Winds: 20 kt

Peak Seas: 4 ft

■ Wave heights are in feet



Significant Wave Height (ft)



NHC/TAFB Gridded Marine Forecasts

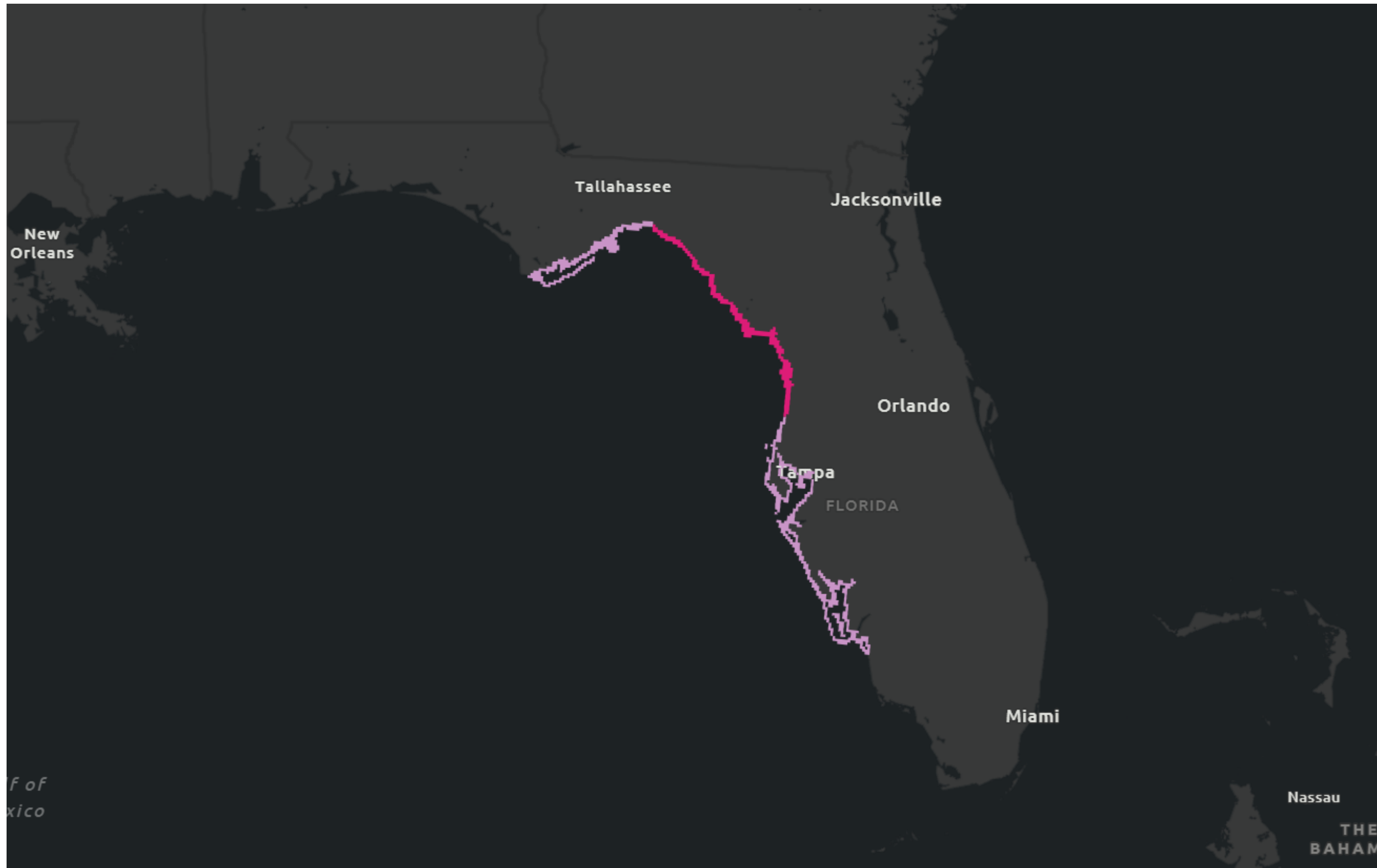


Storm Surge Watches/Warnings



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NWS National Hurricane Center

Tropical Depression Four

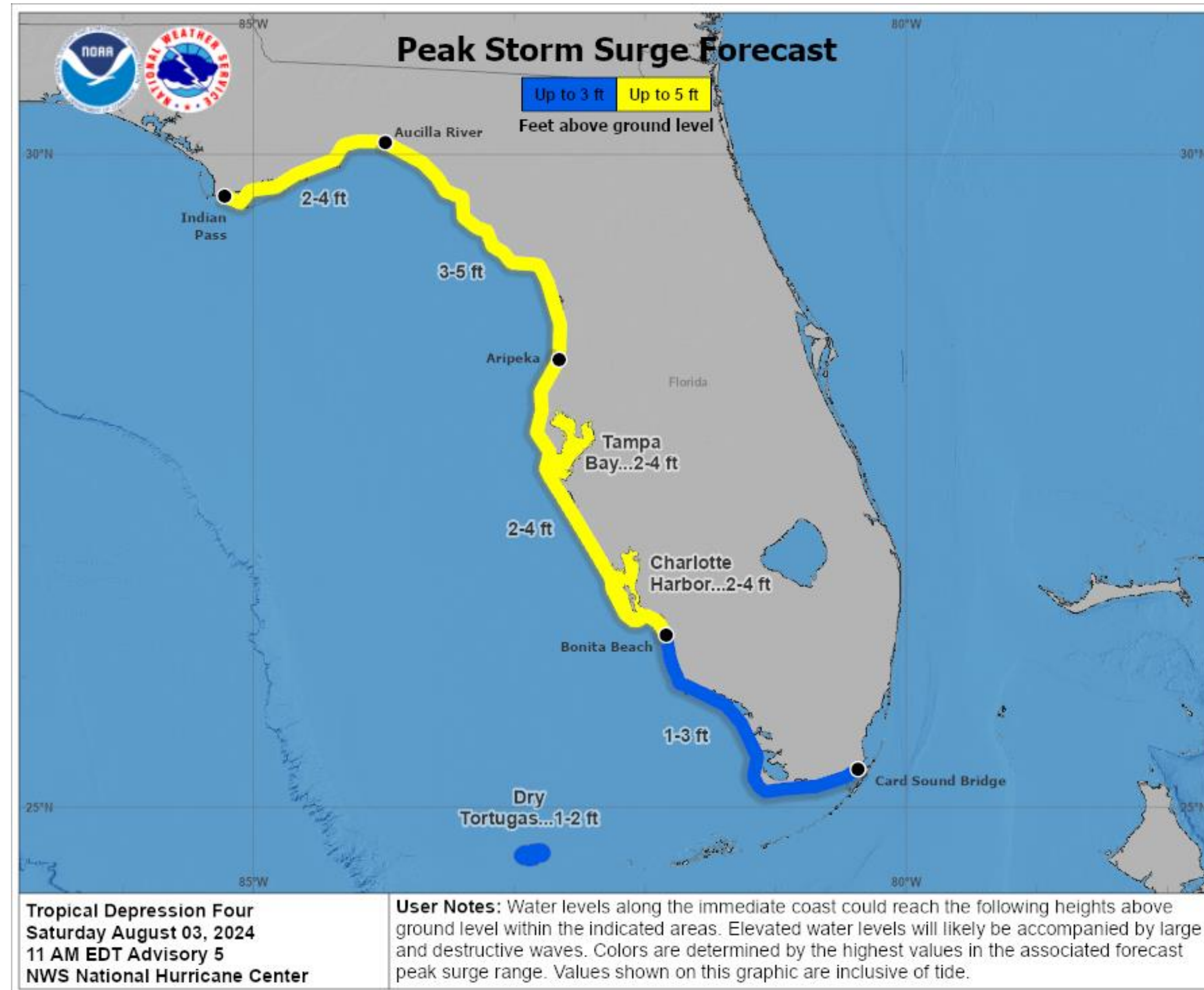


Potential Peak Storm Surge / Watches and Warnings



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NWS National Hurricane Center

Tropical Depression Four



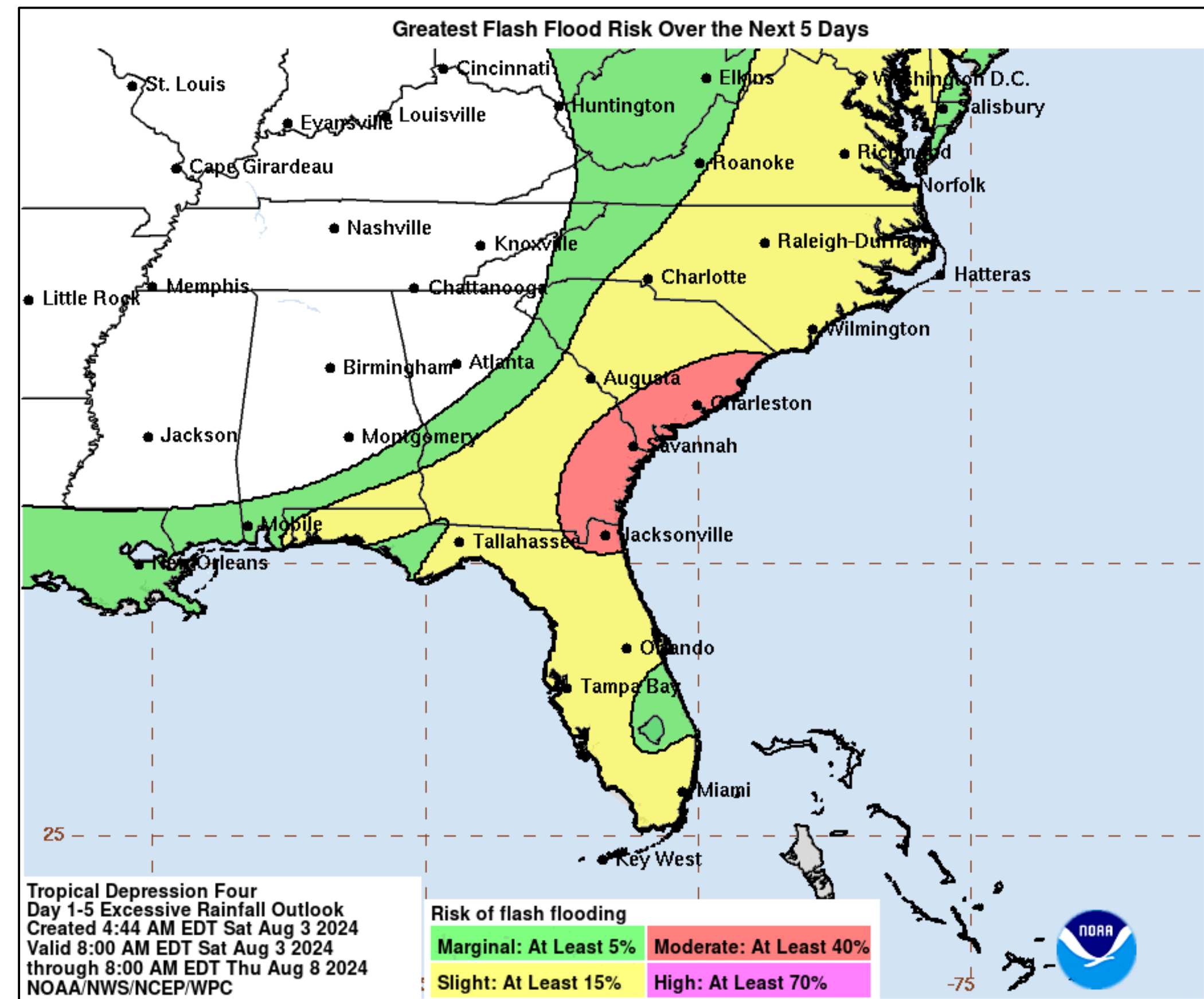
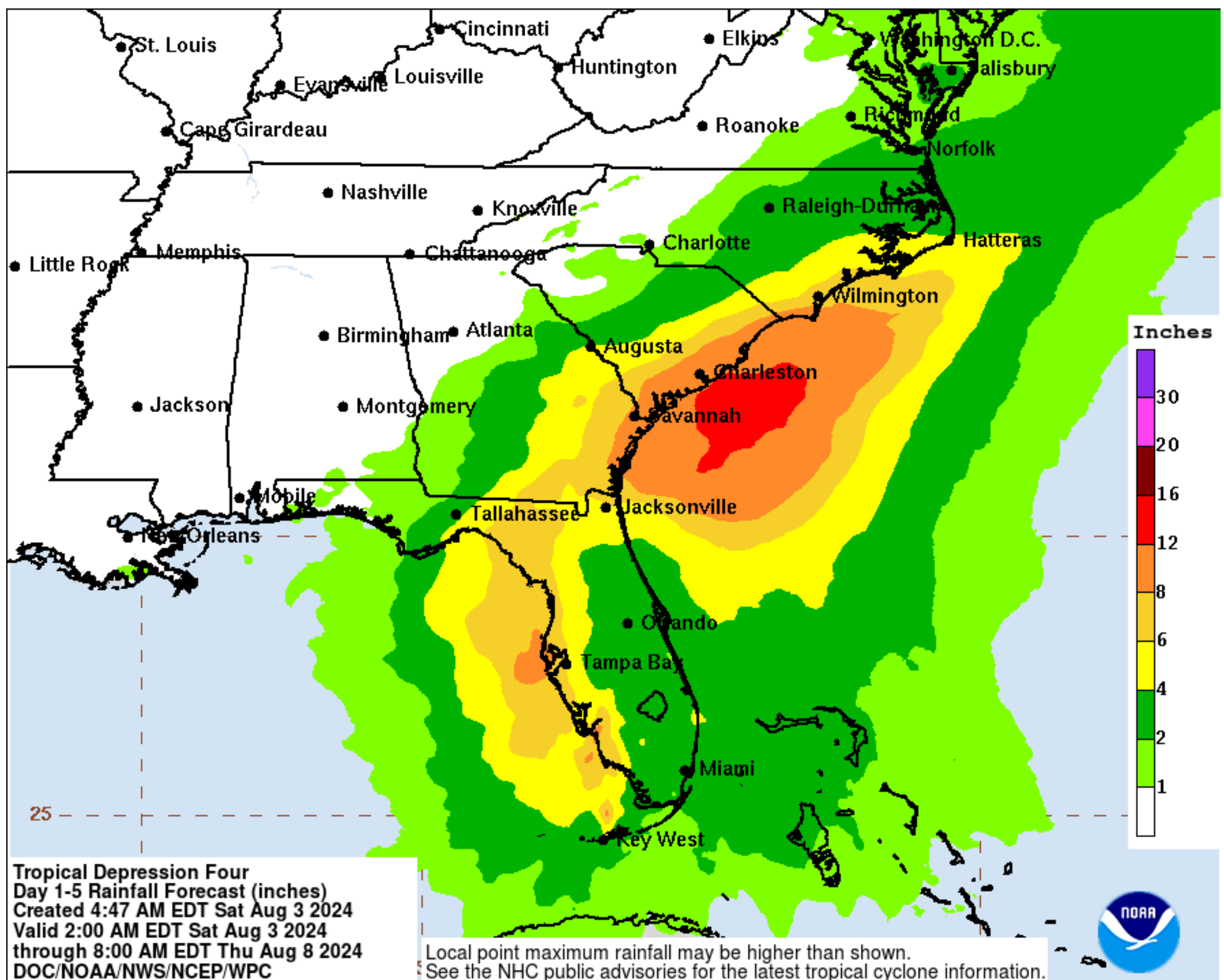
Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Depression Four

Images from NWS Weather Prediction Center



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

HIGH: > 50% **SLGT: 10%-20%**
MDT: 20%-50% **MRGL: 5%-10%**

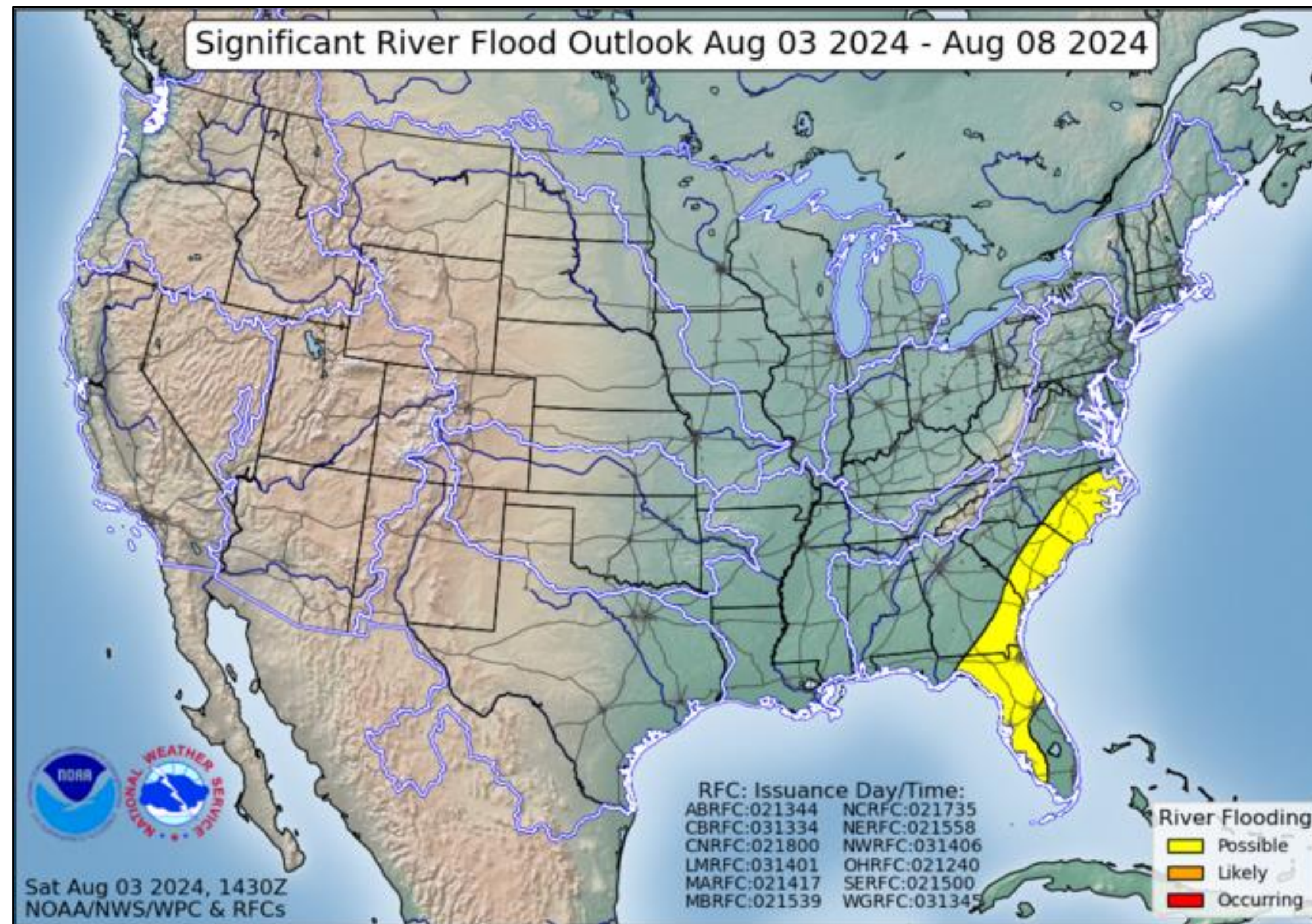
Refer to map legend for Valid Time

Flood Outlook

Tropical Depression Four



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Tornado Outlook – Day 1

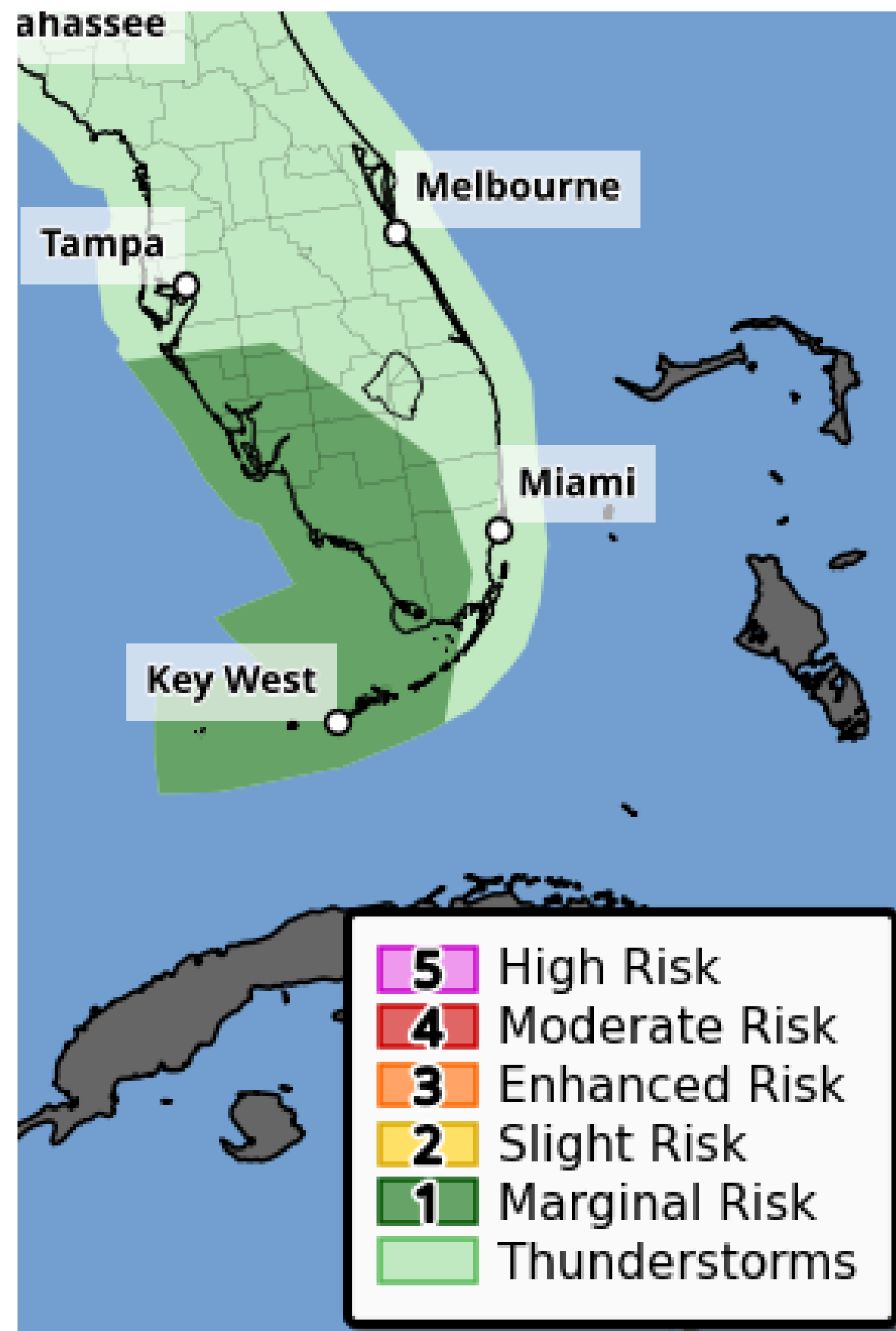


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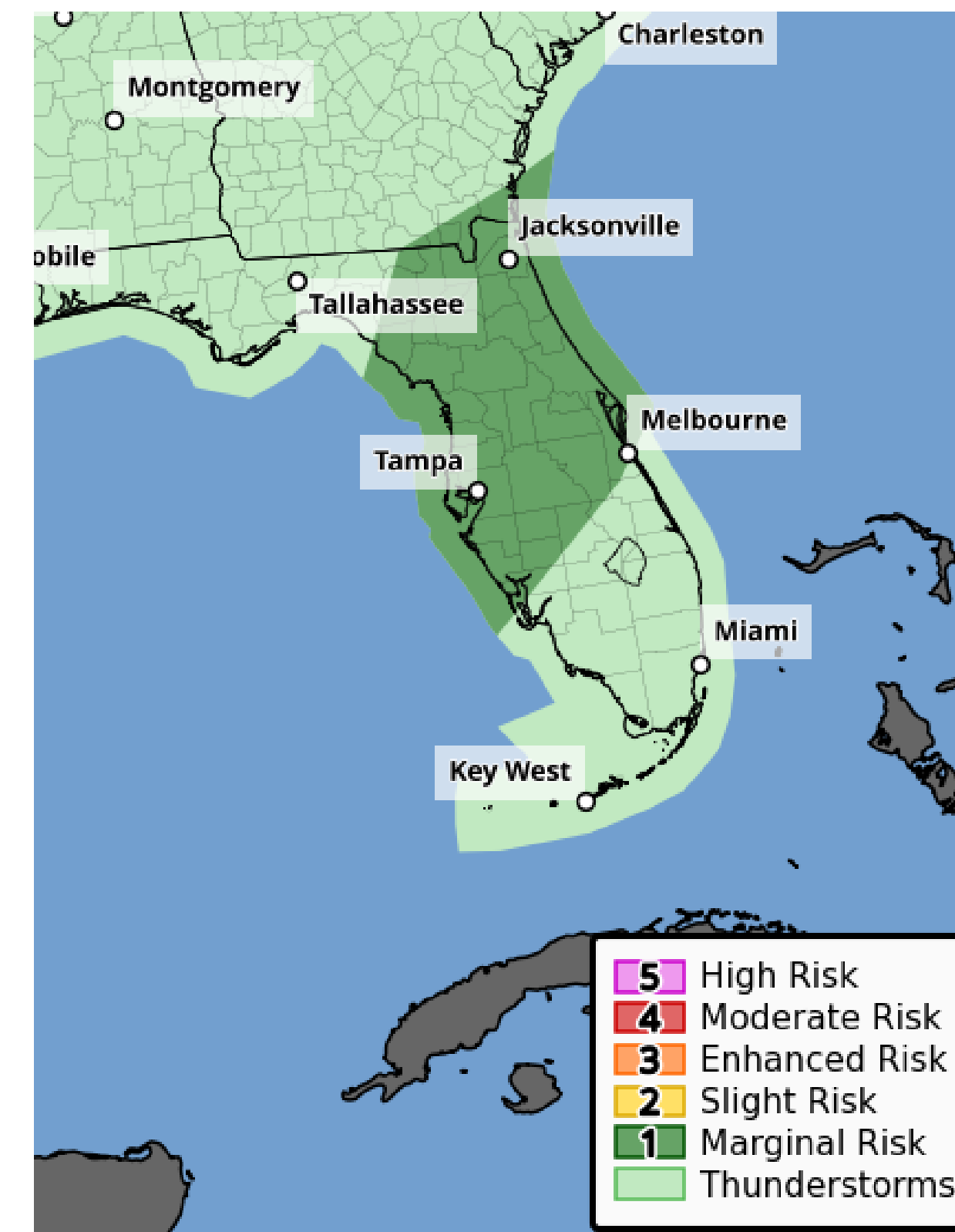
Tropical Depression Four

Image from NWS Storm Prediction Center

Day 1 - Saturday



Day 2 - Saturday



Key Messages

Tropical Depression Four



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Depression Four

Advisory 5: 11:00 AM EDT Sat Aug 03, 2024



1. Heavy rainfall will likely result in locally considerable flash and urban flooding across portions of Florida and the coastal areas of the Southeast this weekend through Thursday morning. River flooding is also expected.

2. Hurricane conditions are possible late Sunday in portions of the Florida Gulf Coast and Big Bend region where a Hurricane Watch is in effect. Tropical storm conditions are expected farther south along Florida's west coast, including the Tampa Bay area, and in the Dry Tortugas where Tropical Storm Warnings are in effect.

3. There is a danger of life-threatening storm surge inundation along portions of the west coast of Florida from Aripeka to the Aucilla River. Life-threatening storm surge is possible west of Aucilla River to Indian Pass and south of Aripeka to Bonita Beach, including Tampa Bay and Charlotte Harbor.

4. Impacts from storm surge, strong winds, and heavy rains are possible elsewhere in Florida and along the southeast coast of the United States from Georgia to North Carolina through the middle of next week, and interests in those areas should continue to monitor the progress of this system. Additional watches and warnings will likely be required later today.



For more information go to hurricanes.gov

Marine Key Messages:

- Seas will quickly build to near 20 ft over the NE Gulf of Mexico by Sunday into Monday
- Conditions will improve later Monday into Monday night as the center of TD Four moves farther north away from the area

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



TROPICAL DEPRESSION FOUR BRIEFING

TIME of NEXT NHC Advisory:
21 UTC: 4 PM CDT

This briefing was prepared by:
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Amanda.Reinhart@noaa.gov
Phone: 305-229-4450

The Next Briefing Will Be:
Sunday | 1:00 AM CDT

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