

IMPACTS FOR D7 (through next 5 days)

Winds – Medium

Storm Surge – Medium

Rainfall/Flash Flooding – High

Tornadoes – Low

Waves - Low

TROPICAL DEPRESSION FOUR BRIEFING

9:00 AM EDT

Saturday, August 3, 2024

Prepared by:

Amanda Reinhart

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

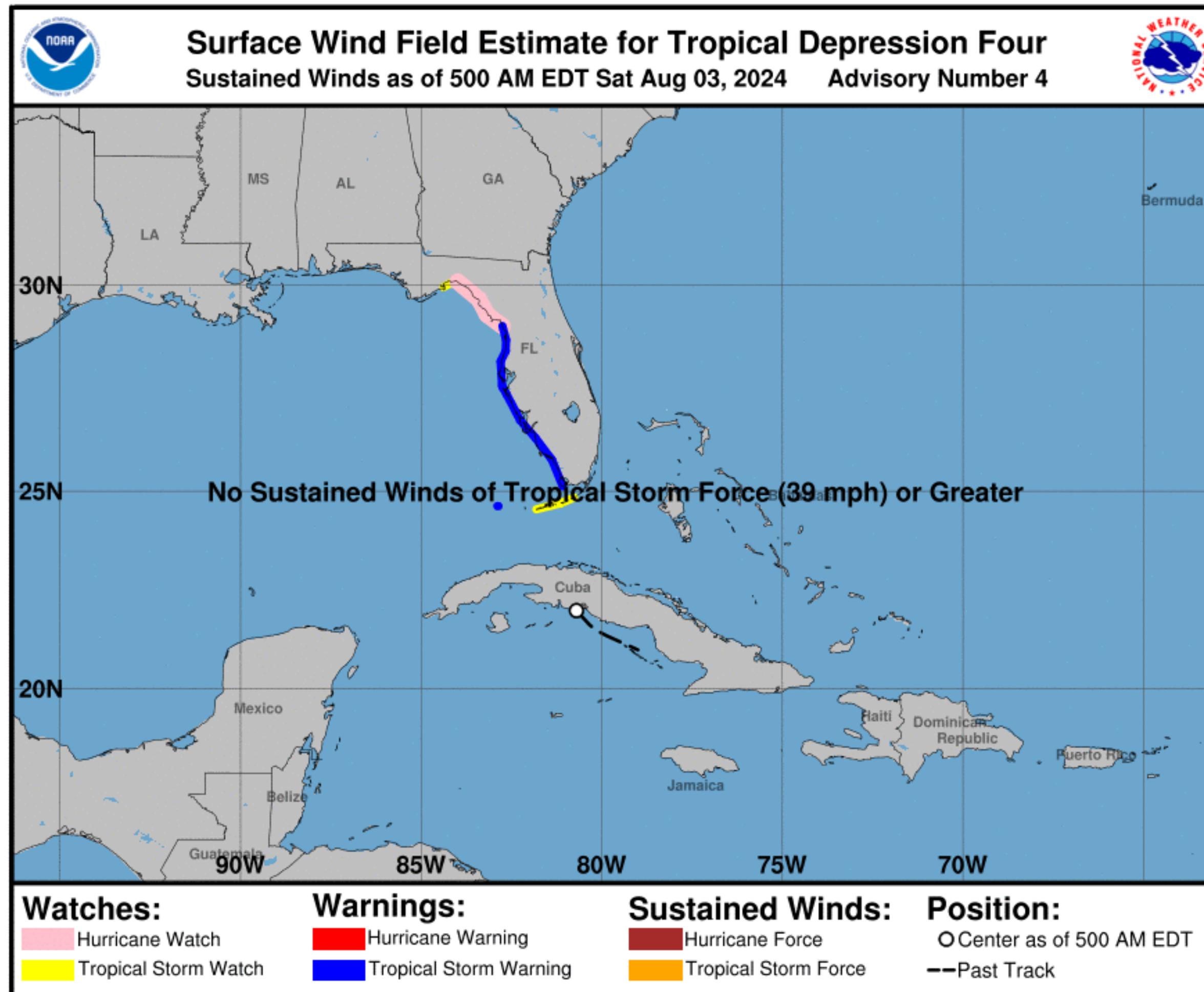


Situation Overview

Tropical Depression Four



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...DEPRESSION PASSING OVER WESTERN CUBA...

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

Summary of 800 AM EDT Information

Location...22.2N 81.5W

About 65 nm S of Varadero Cuba

About 148 nm S of Key West Florida

Maximum Sustained Winds...25 kt

Present Movement...WNW at 14 kt

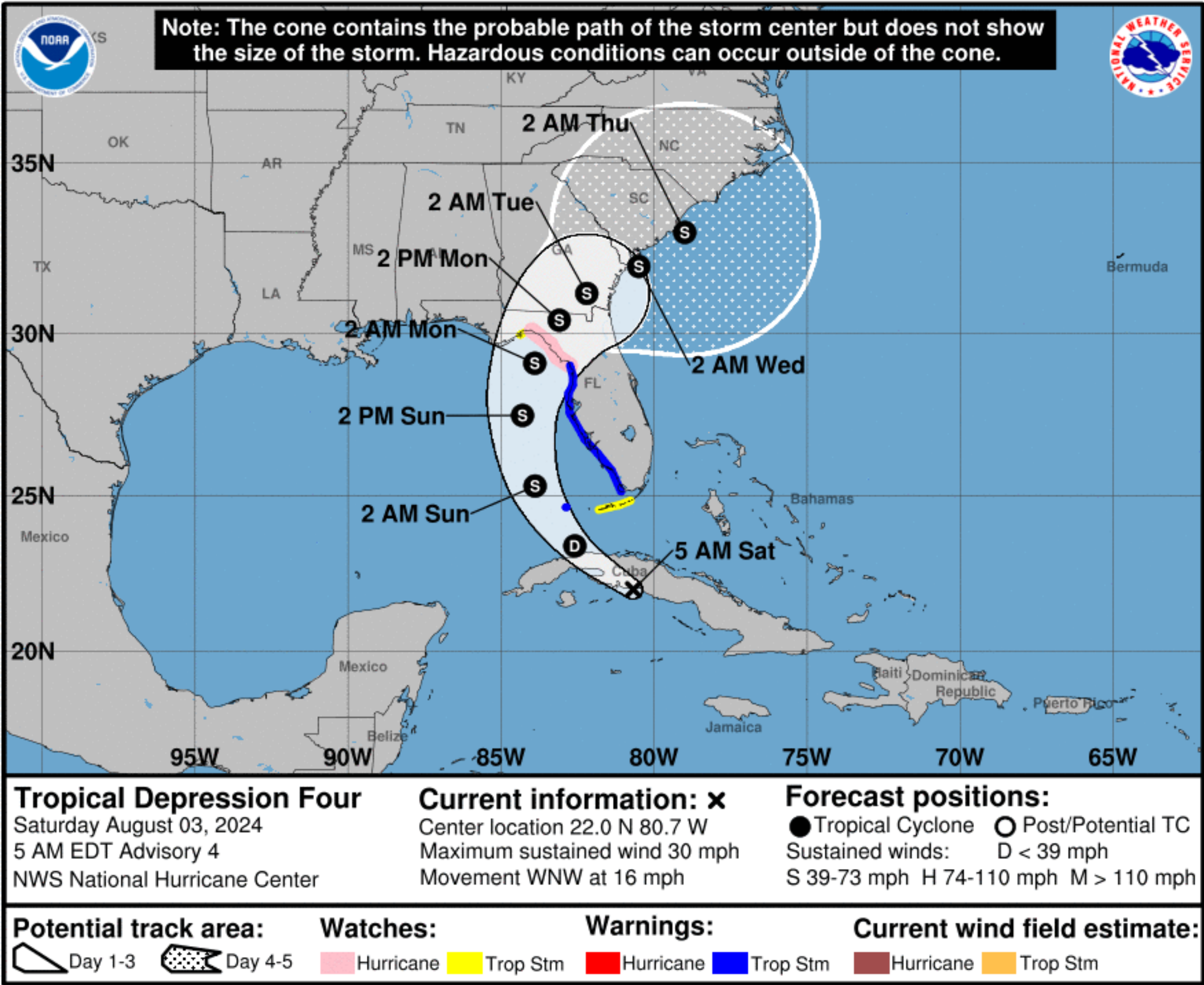
Peak Seas: 7 ft

Forecast Information

Tropical Depression Four



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

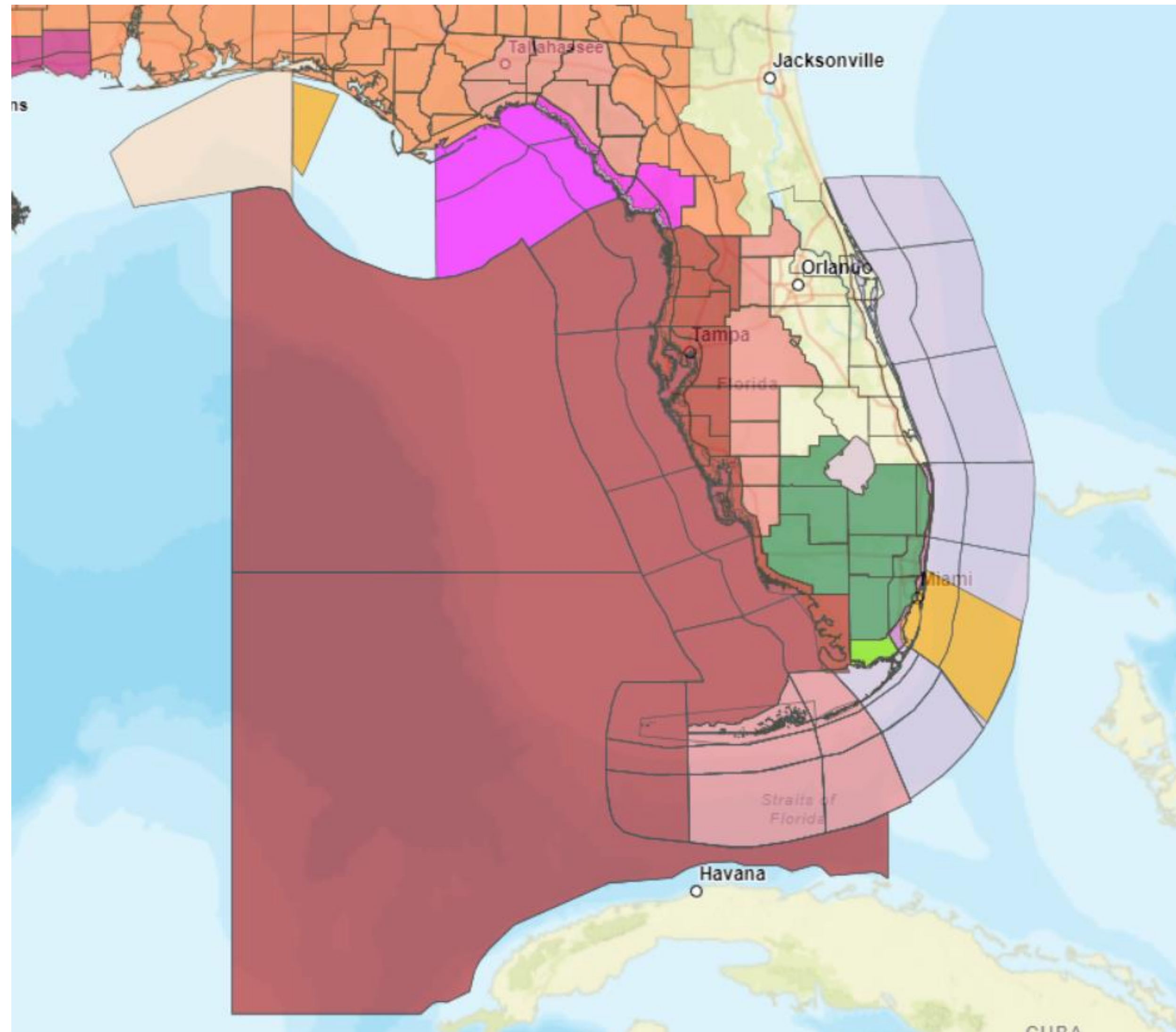
- A tropical depression is located along the southern coast of Cuba and is expected to move into the Gulf later today and into tonight
 - The system will turn NW then N today through Sunday with the system making landfall somewhere between Tampa and Apalachicola Sunday night or Monday morning
 - On the forecast track, Four is expected to become a tropical storm by tonight with potential of becoming a hurricane before it makes the Florida landfall
 - System likely to become a threat to Georgia and South Carolina on Tuesday and Wednesday
- 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
- ** 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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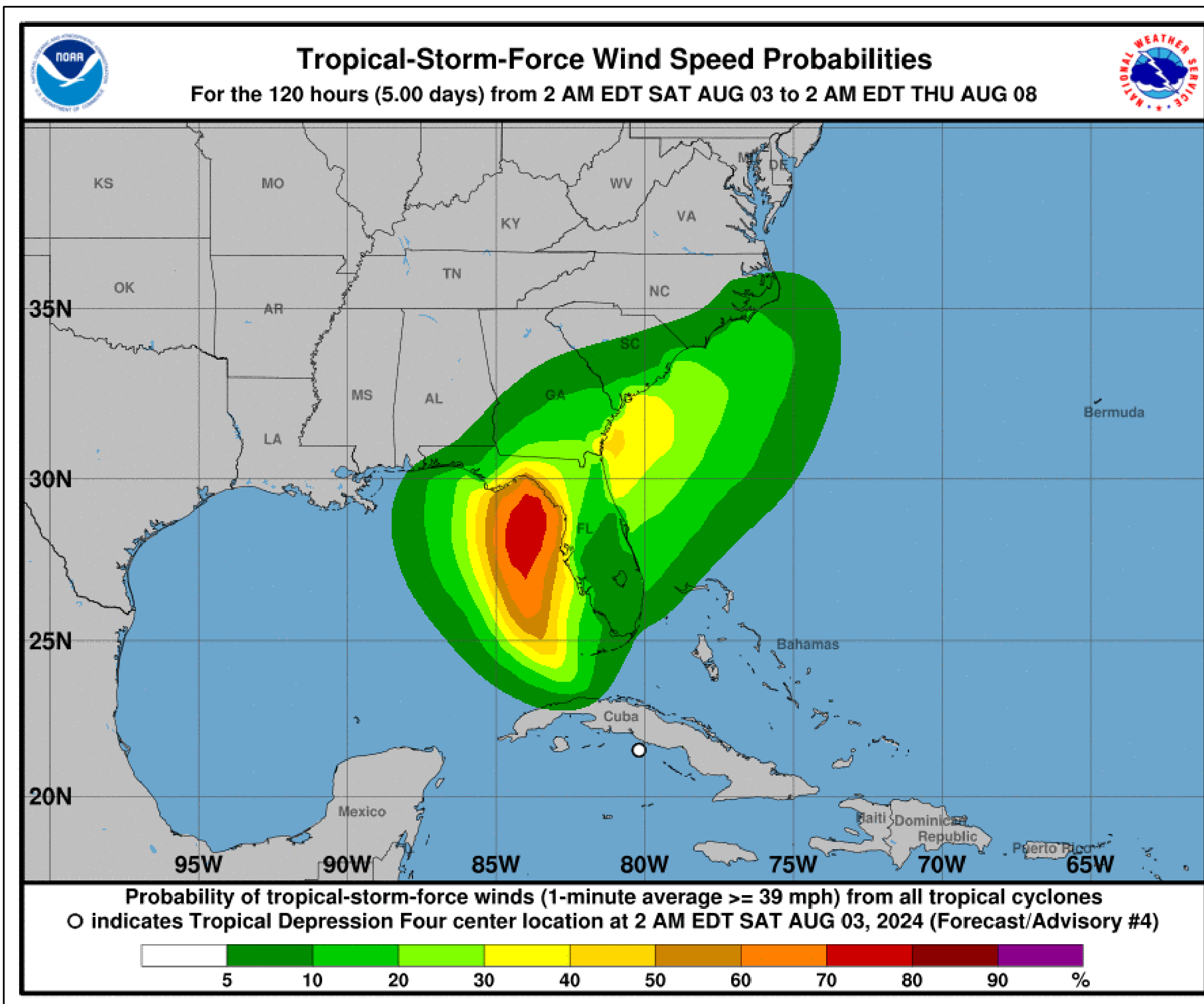


T.S. Wind Speed Probabilities

Tropical Depression Four



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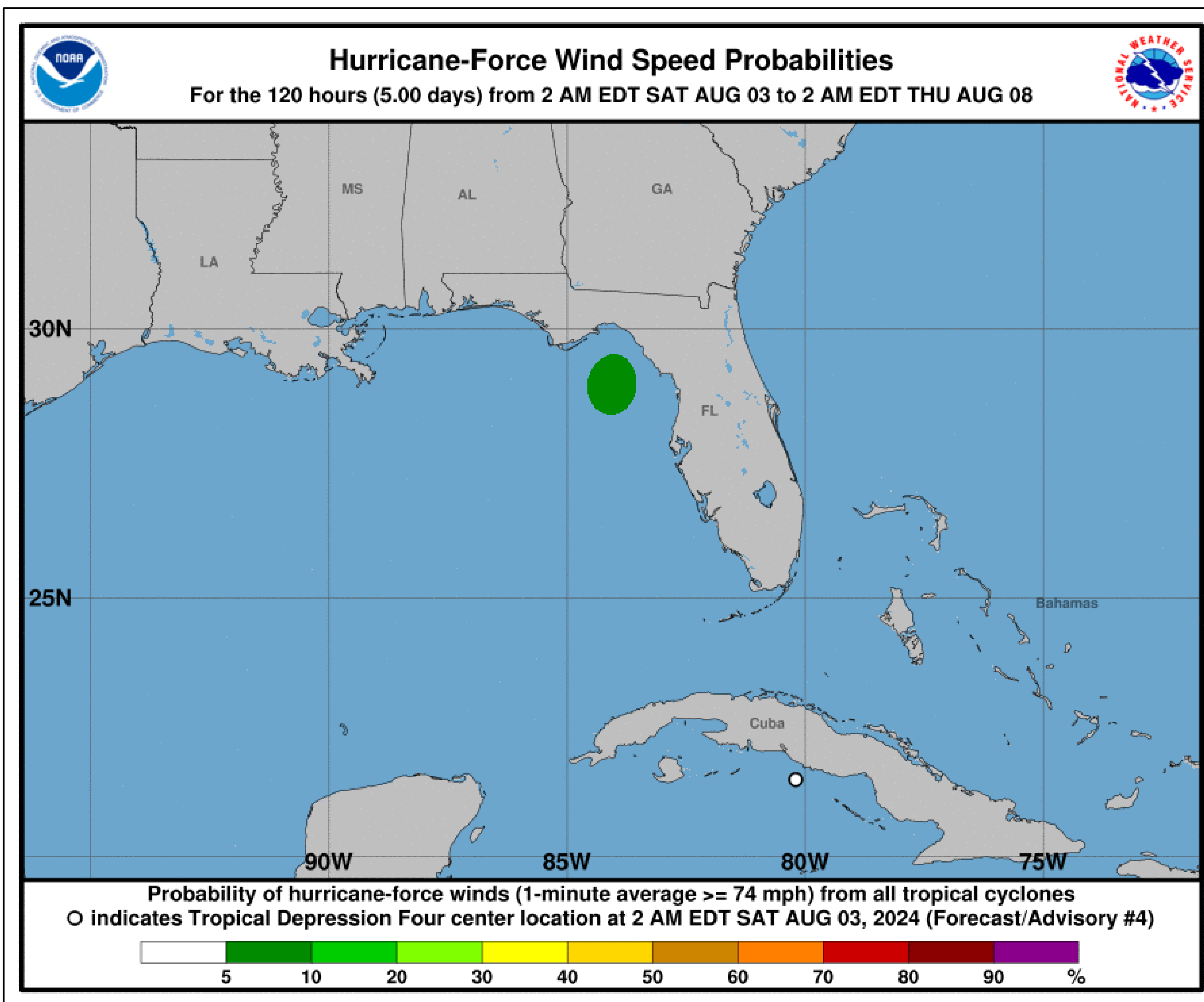
- **KEY WEST 10%**
 - **FT LAUDERDALE 10%**
 - **TAMPA 45%**
 - **TALLAHASSEE 25%**
 - **APALACHICOLA 50%**
 - **PANAMA CITY 35%**
 - **JACKSONVILLE 20%**
 - **SAVANNAH 15%**
 - **BEAUFORT 30%**
 - **CHARLESTON 25%**
-
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the 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 Depression Four



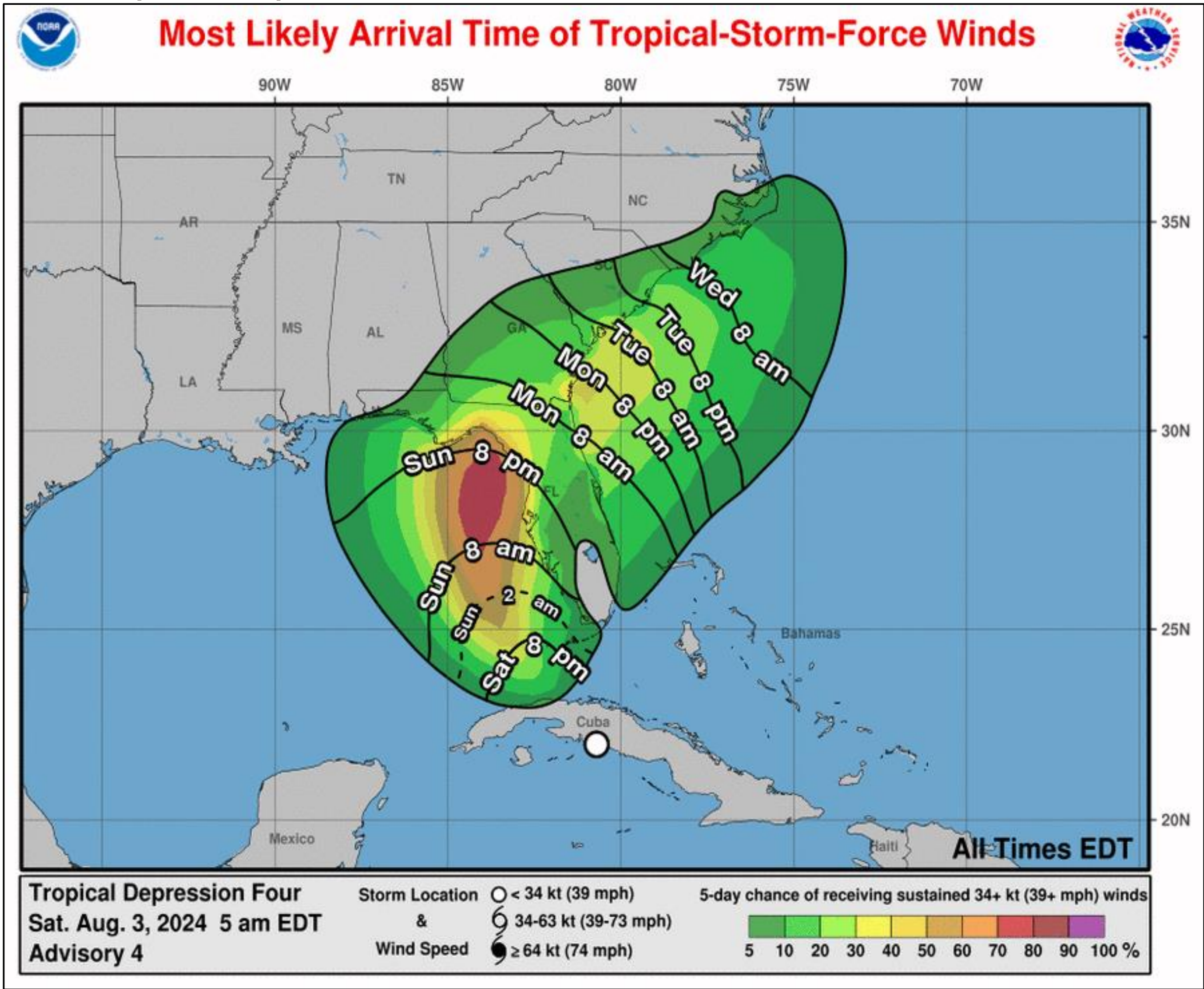
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- **APALACHICOLA 5%**
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through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



Tropical Depression Four



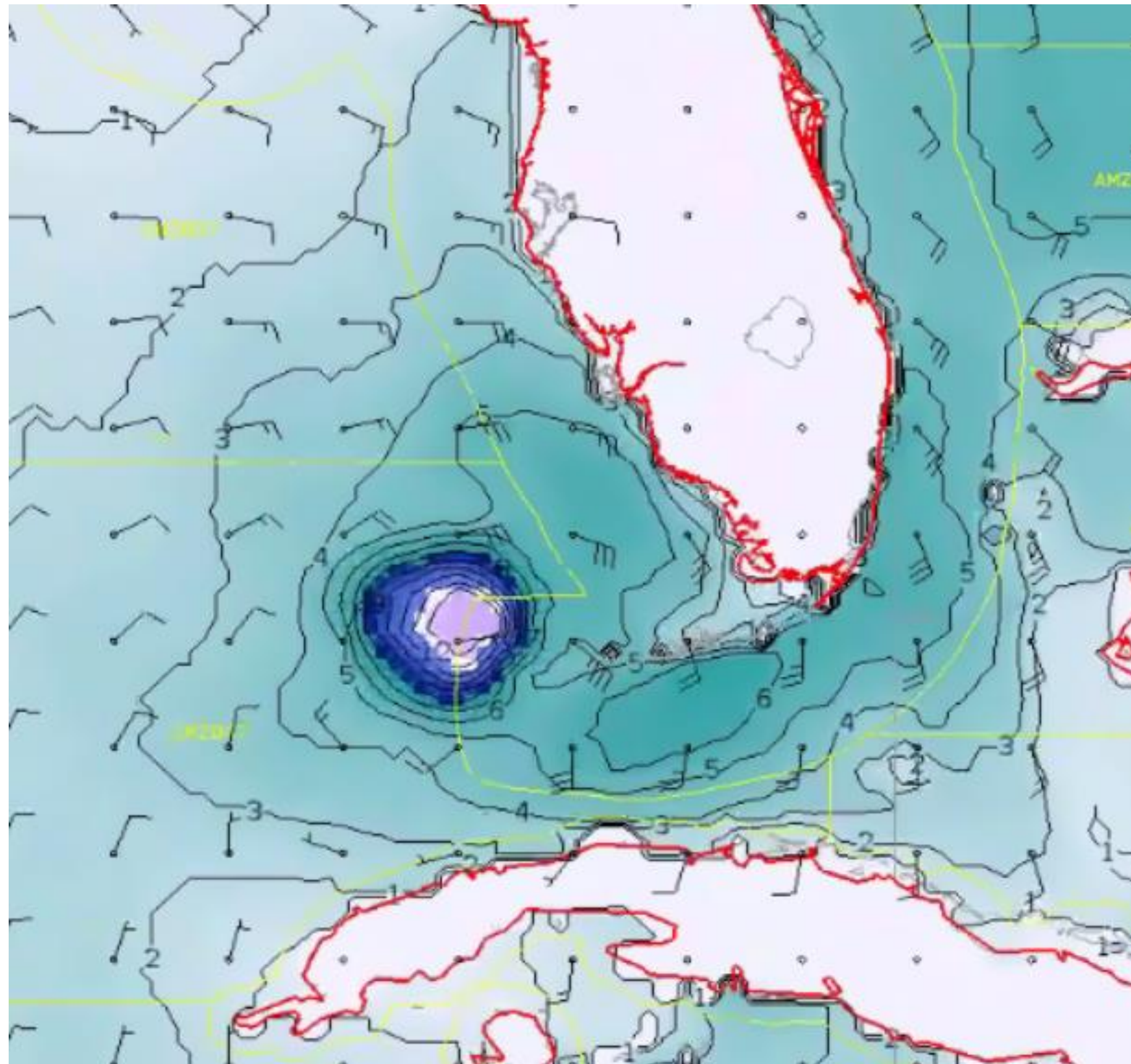
- Southwest Florida: early Sunday morning
- Tampa Bay: Sunday afternoon
- Florida Big Bend: Sunday night
- Jacksonville: Monday morning
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are 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 8pm EST

Peak Winds: 35 kt

Peak Seas: 14 ft

- Wave heights are in feet

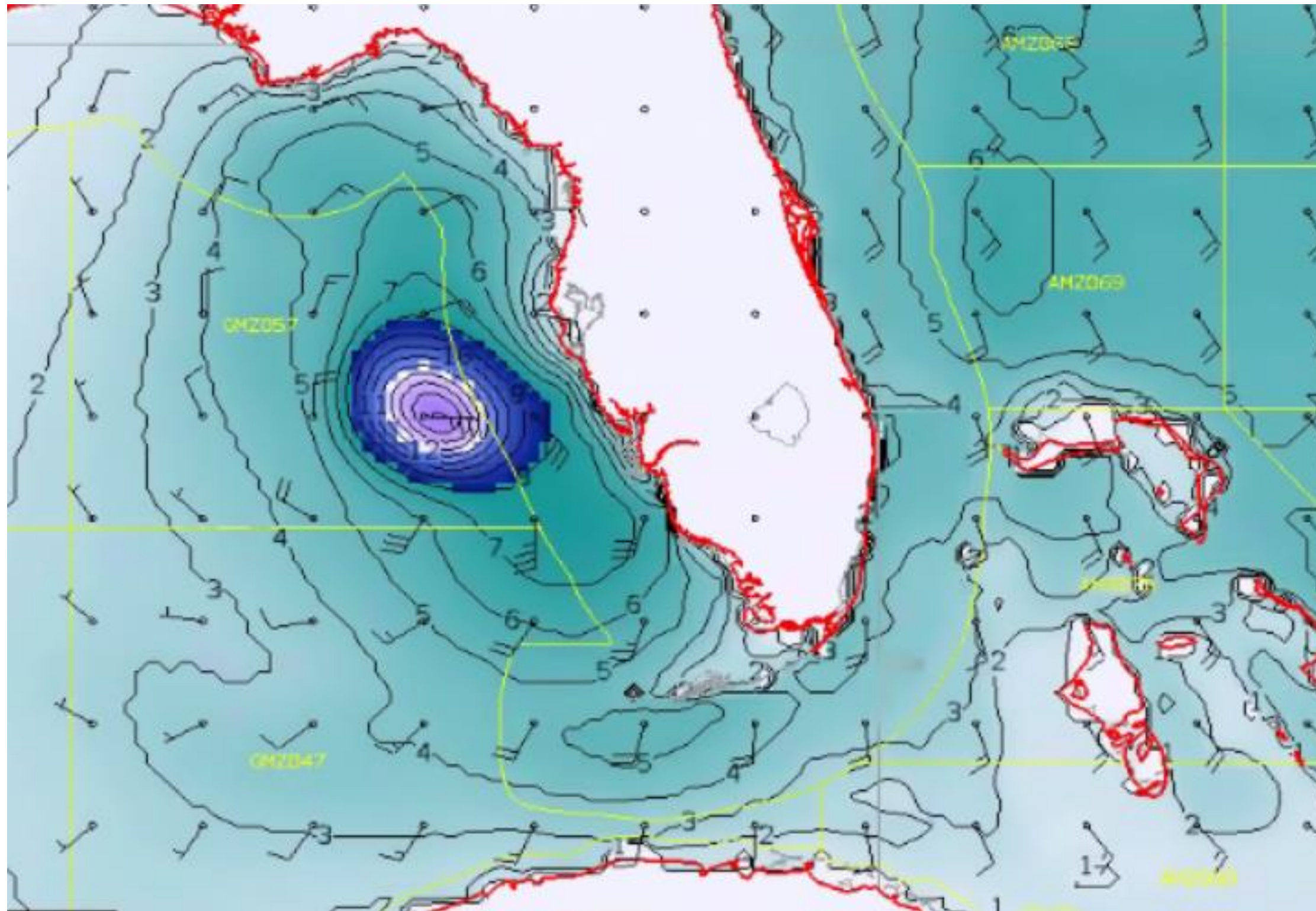


Wind And Waves

Tropical Depression Four



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24 Hour Forecast

Sunday, Aug 4th at 8am EST

Peak Winds: 45 kt

Peak Seas: 16 ft

- Wave heights are in feet

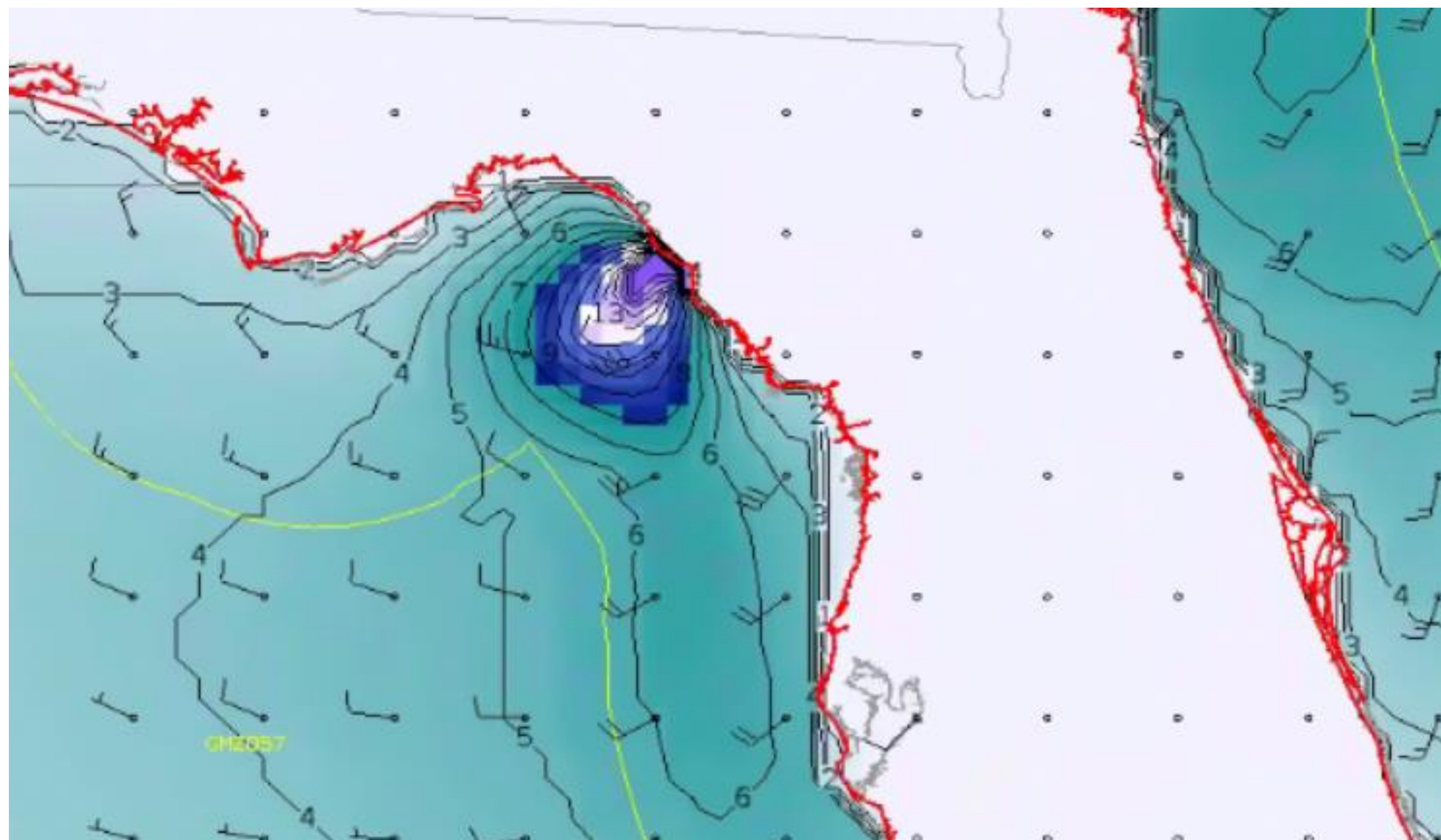


Wind And Waves

Tropical Depression Four



Tropical Analysis and Forecast Branch
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48 Hour Forecast

Monday, Aug 5th at 8am EST

Peak Winds: 55 kt

Peak Seas: 17 ft

- Wave heights are in feet



Wind And Waves

Tropical Depression Four



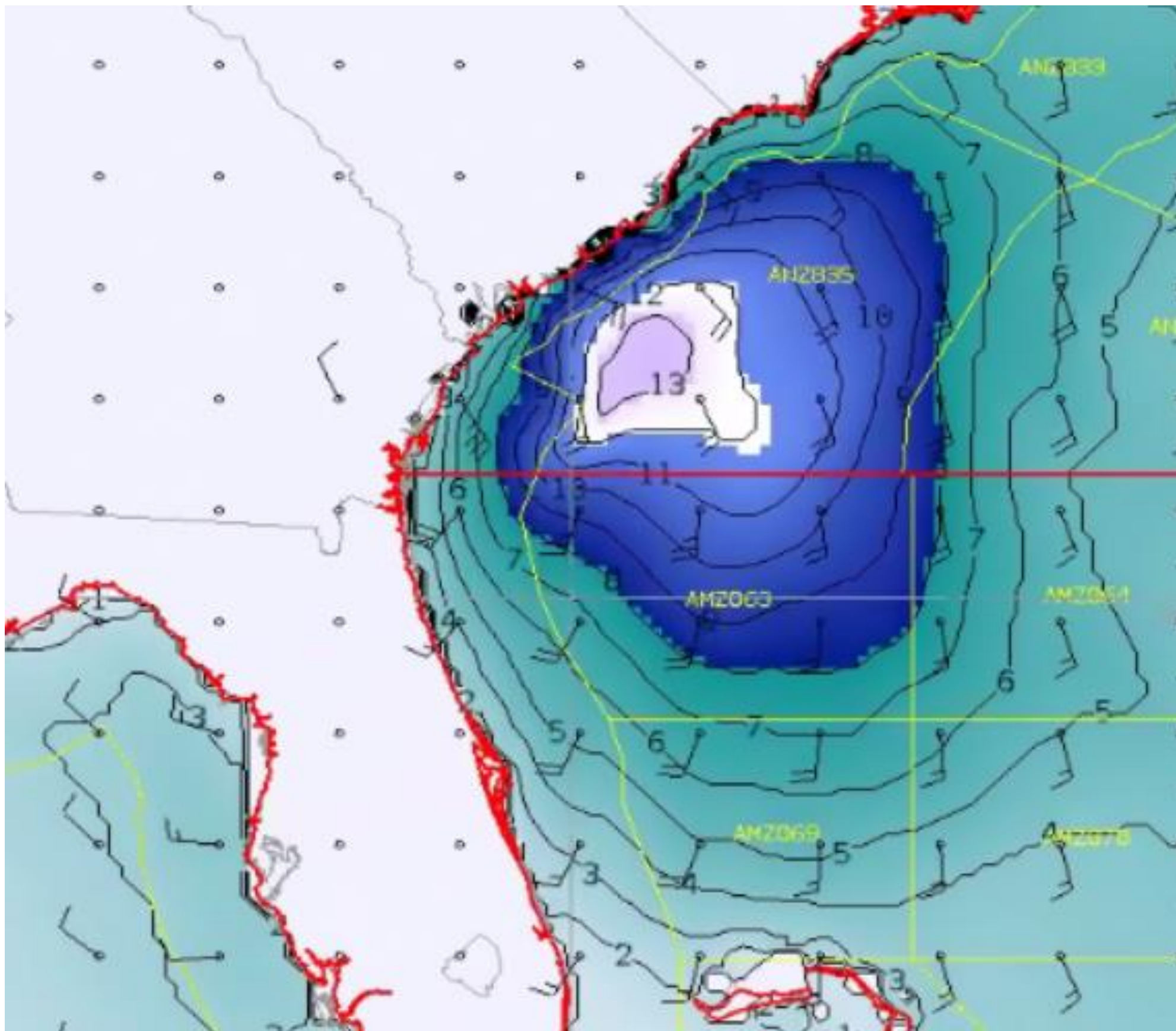
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72 Hour Forecast

Tuesday, Aug 6th at 8am EST

Peak Winds: 40 kt

Peak Seas: 14 ft



- Wave heights are in feet

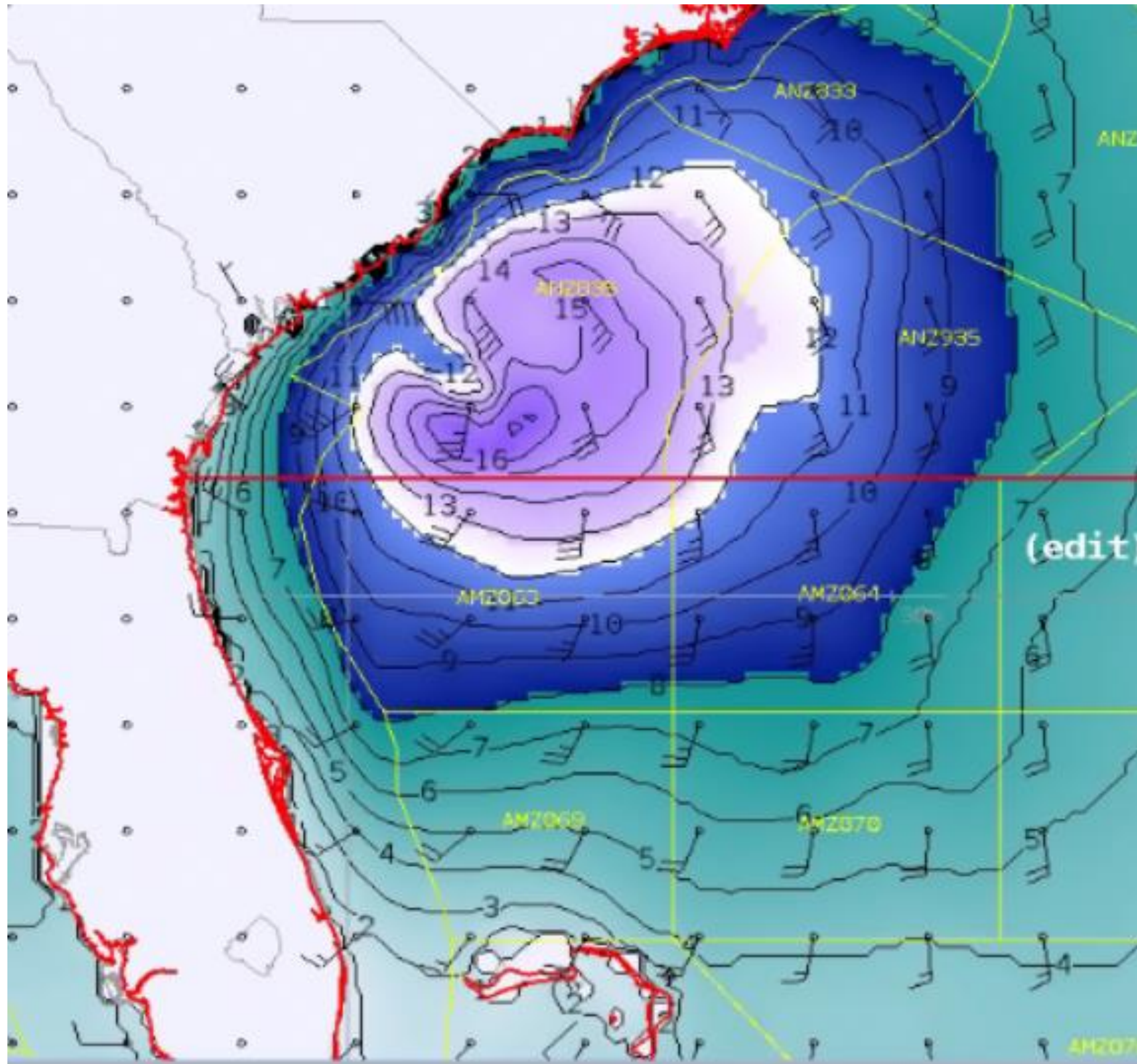


Wind And Waves

Tropical Depression Four



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96 Hour Forecast

Wednesday, Aug 7th at 8am EST

Peak Winds: 45 kt

Peak Seas: 17 ft

- Wave heights are in feet



Wind And Waves

Tropical Depression Four



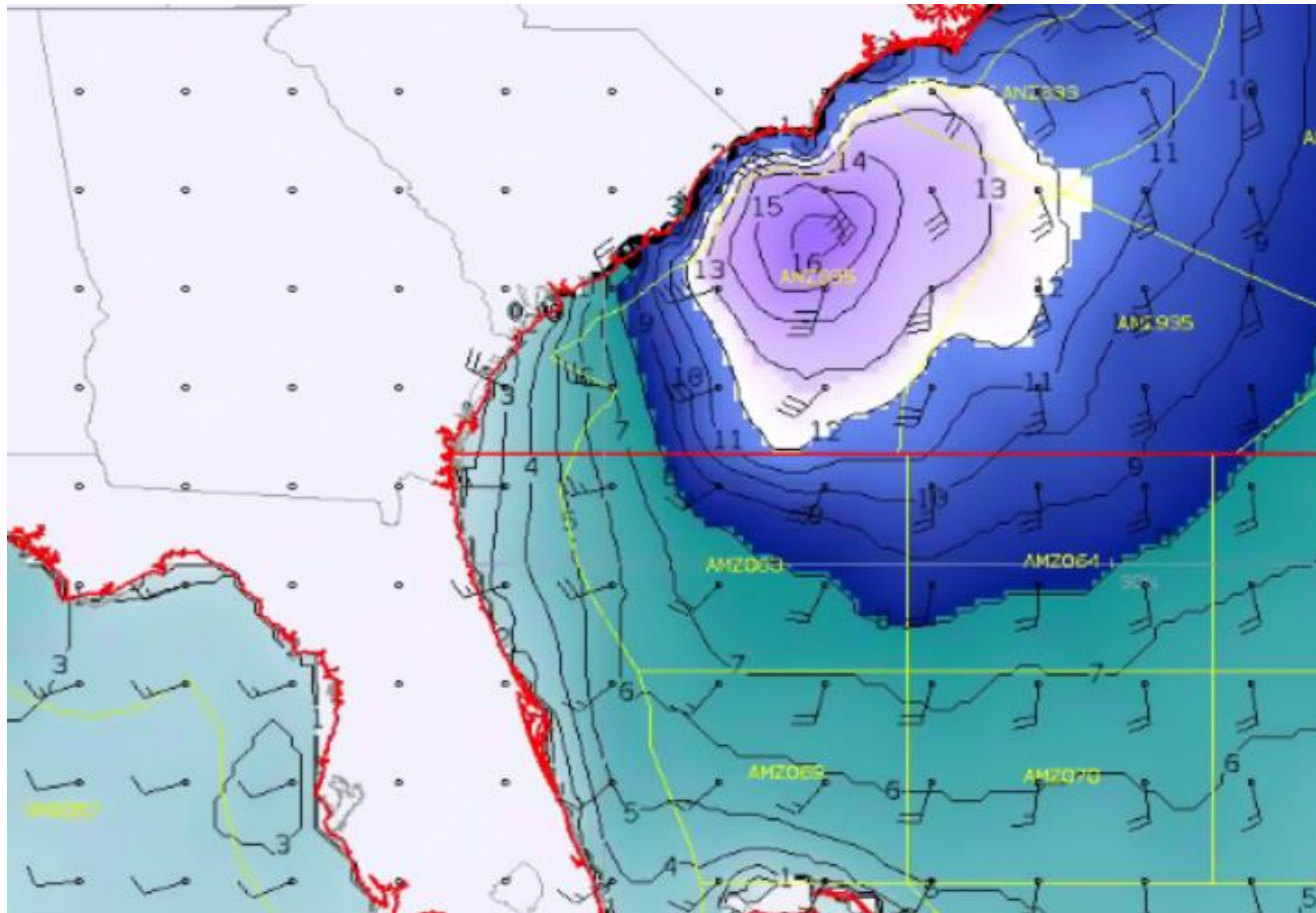
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120 Hour Forecast

Thursday, Aug 8th at 8am EST

Peak Winds: 45 kt

Peak Seas: 16 ft



- Wave heights are in feet

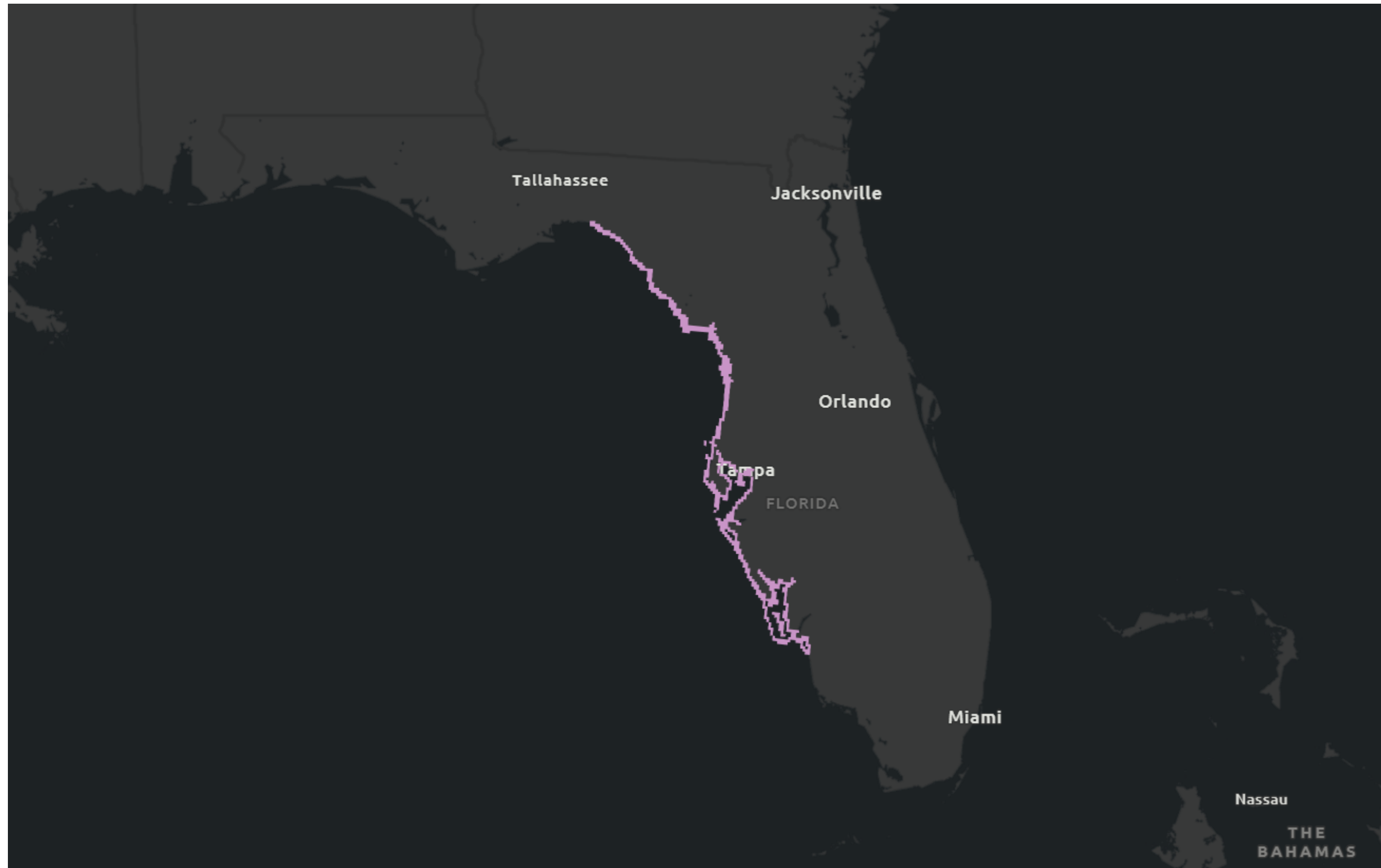


Storm Surge Watches/Warnings

Tropical Depression Four



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NWS National Hurricane Center



A Storm Surge Watch is in effect for...

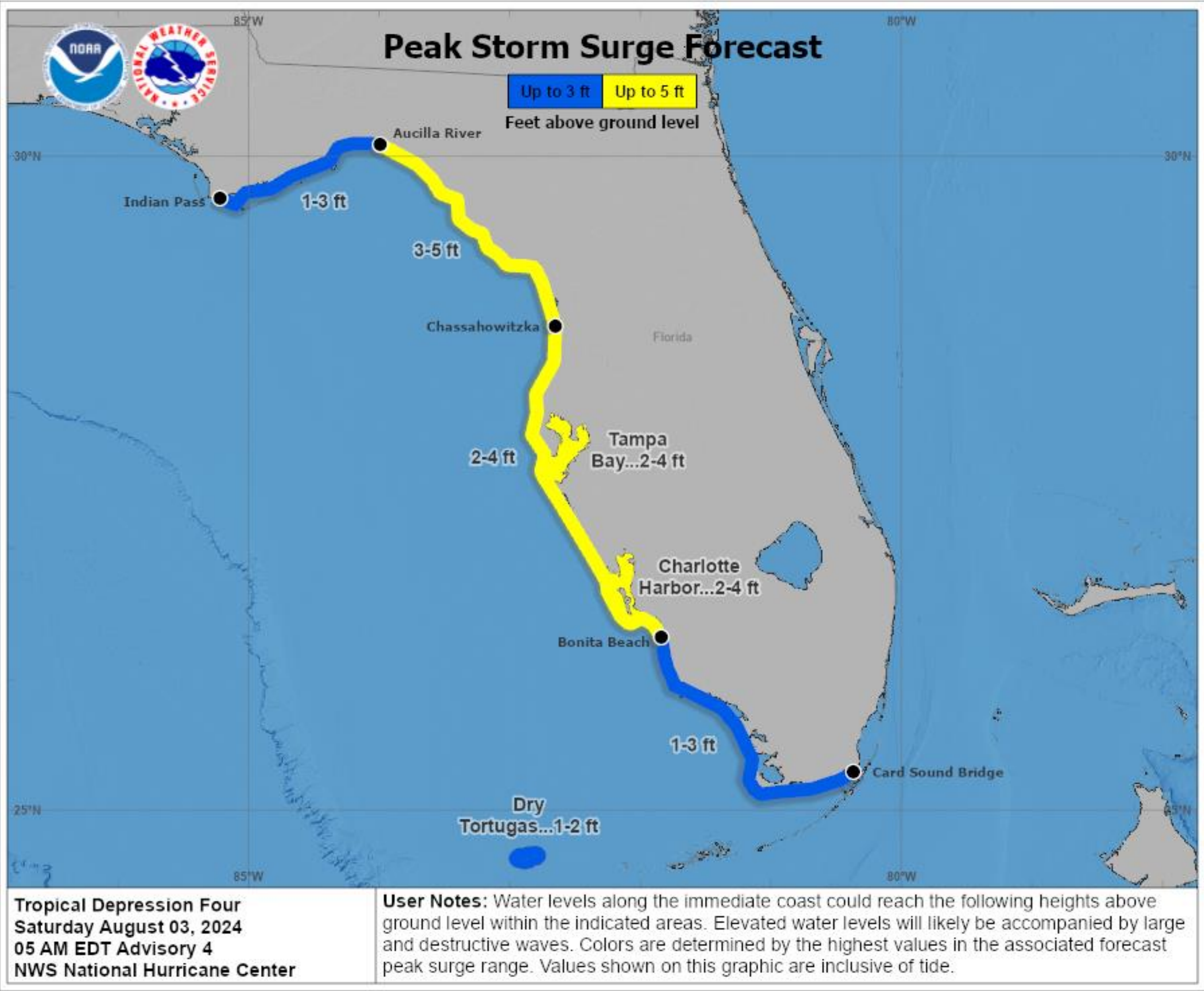
* Bonita Beach northward to the Aucilla River, including Tampa Bay and Charlotte Harbor

Potential Peak Storm Surge / Watches and Warnings



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NWS National Hurricane Center

Tropical Depression Four

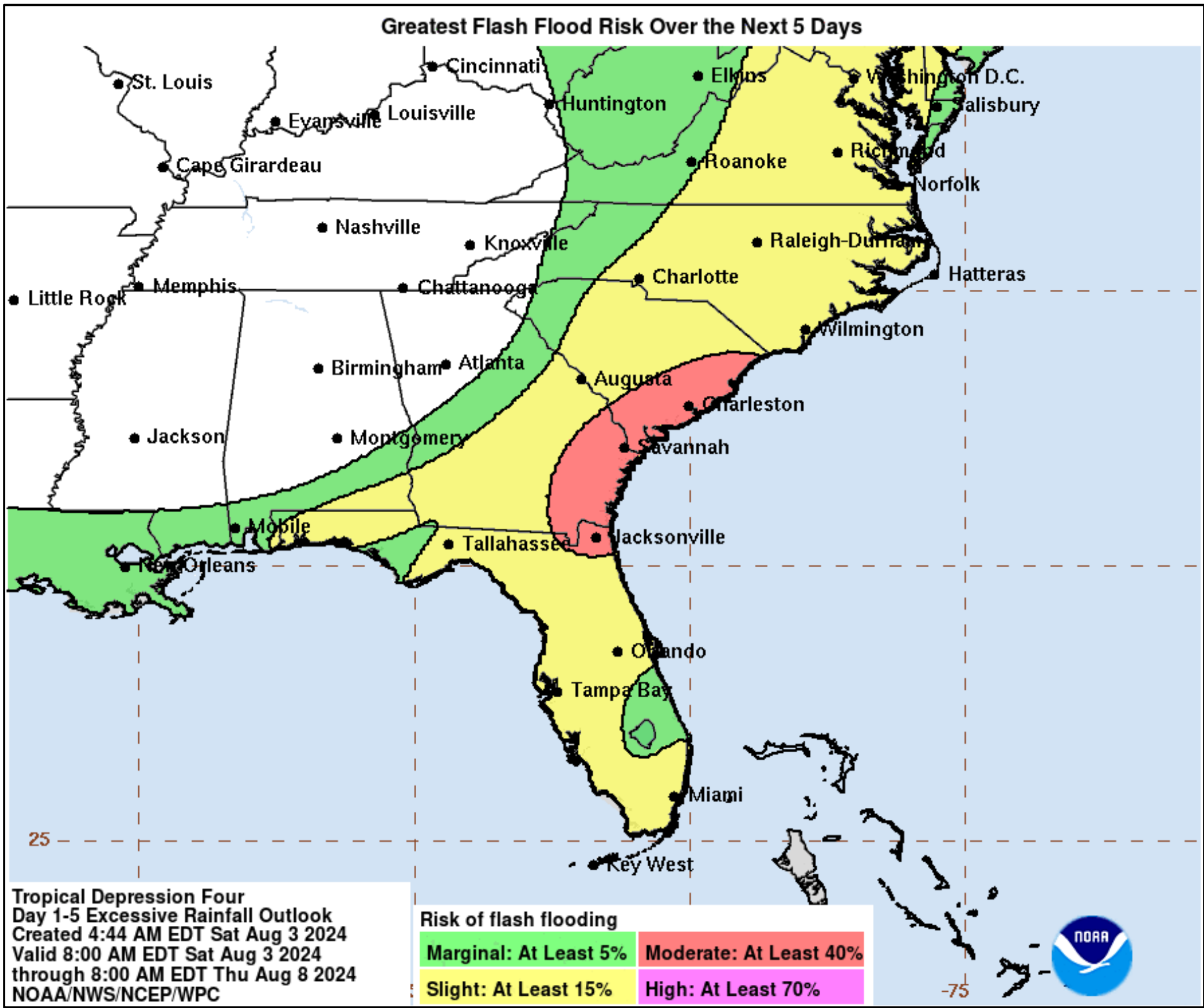
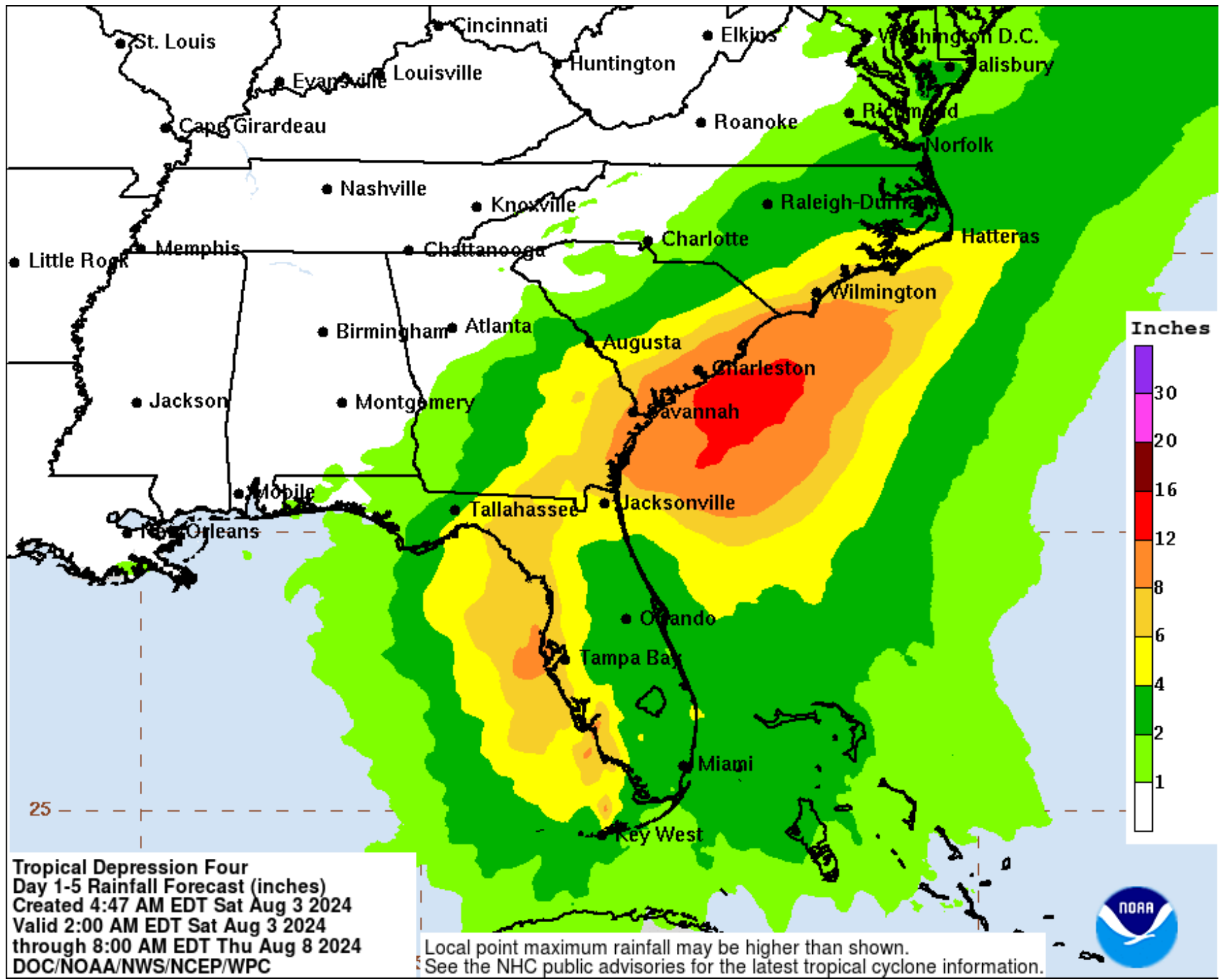


Expected Storm Total Rainfall and Chance of Rainfall Flooding



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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%**

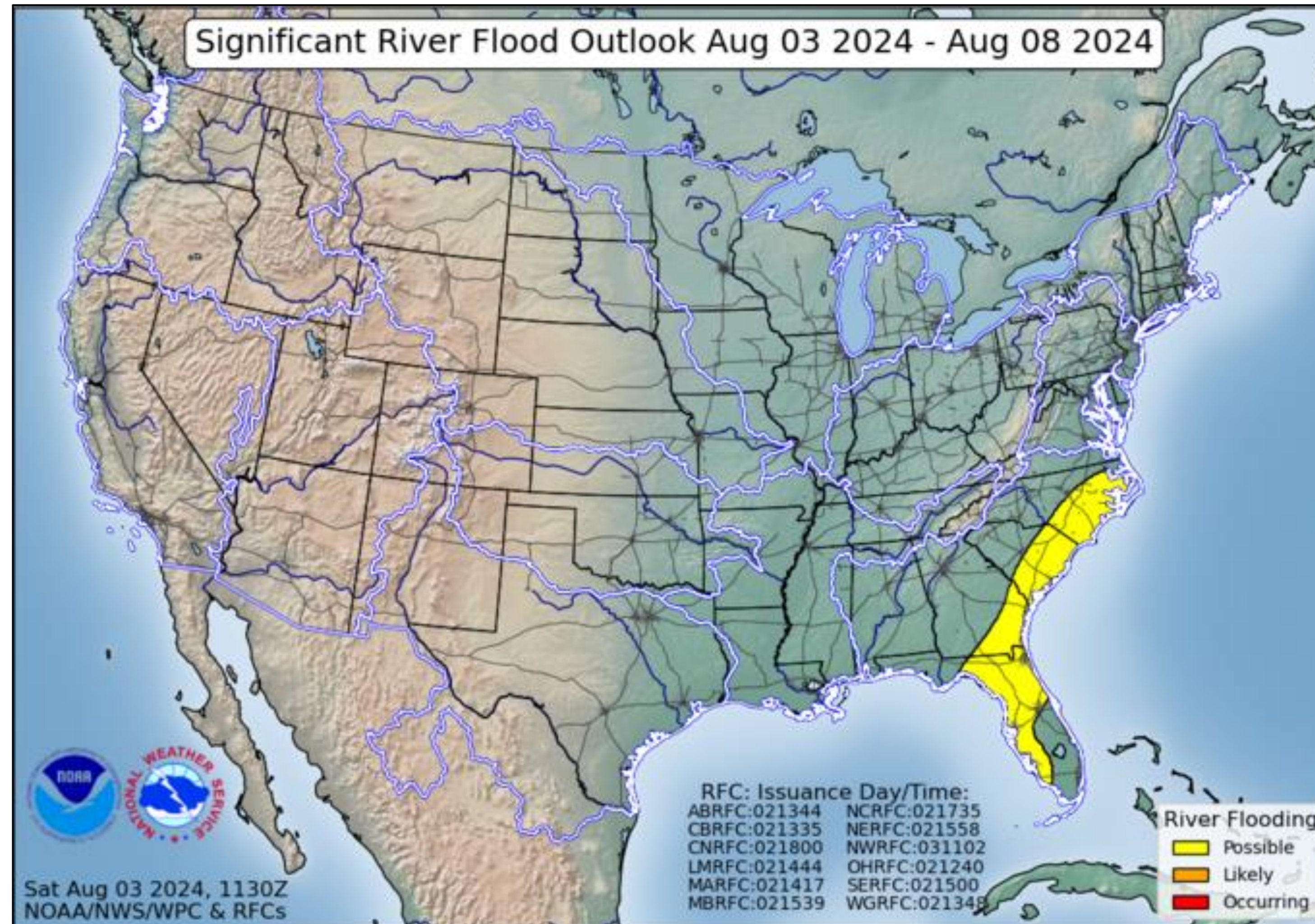
Refer to map legend for Valid Time

Flood Outlook

Tropical Depression Four



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Tornado Outlook – Day 1 and 2

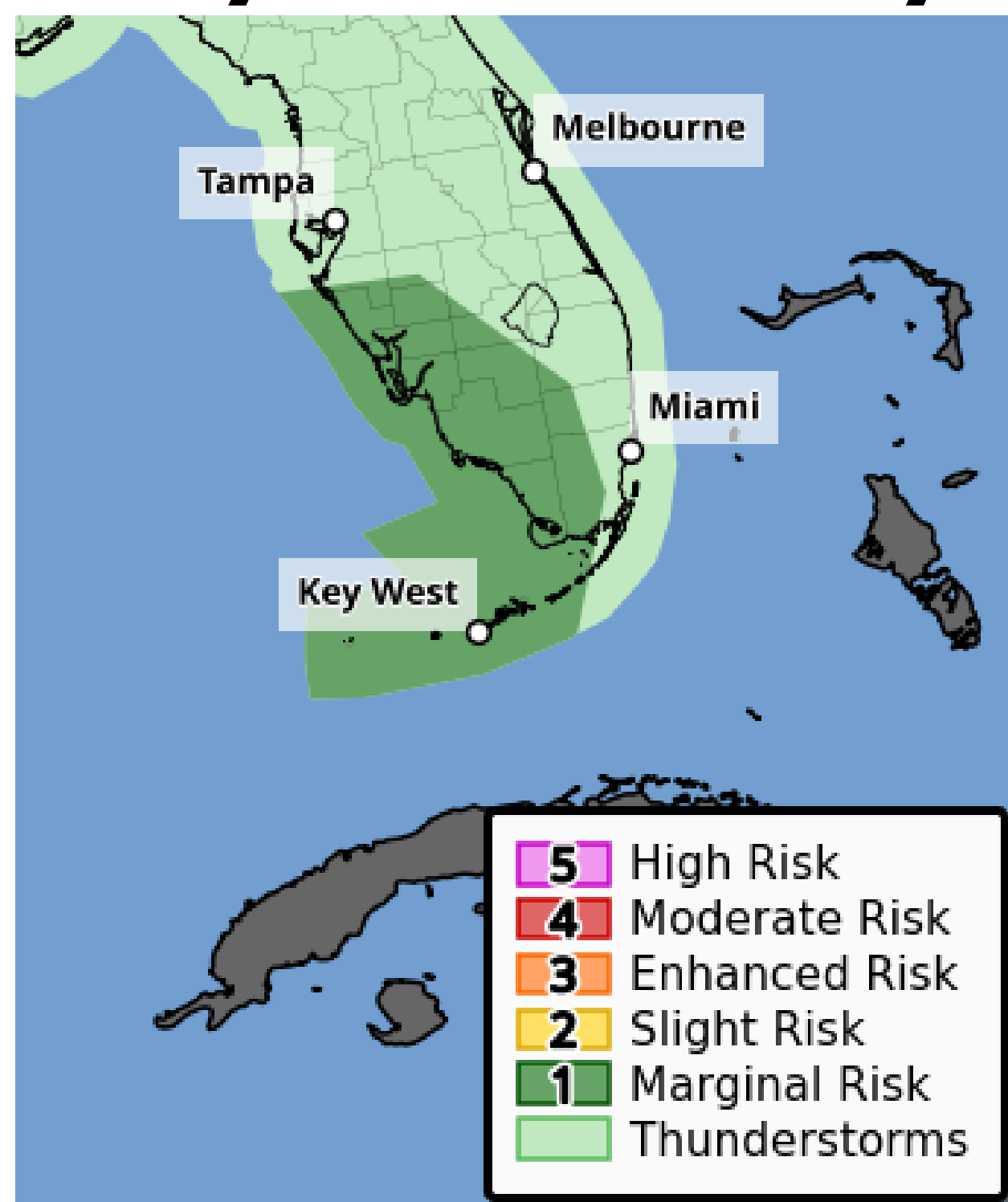
Tropical Depression Four

Image from NWS Storm Prediction Center

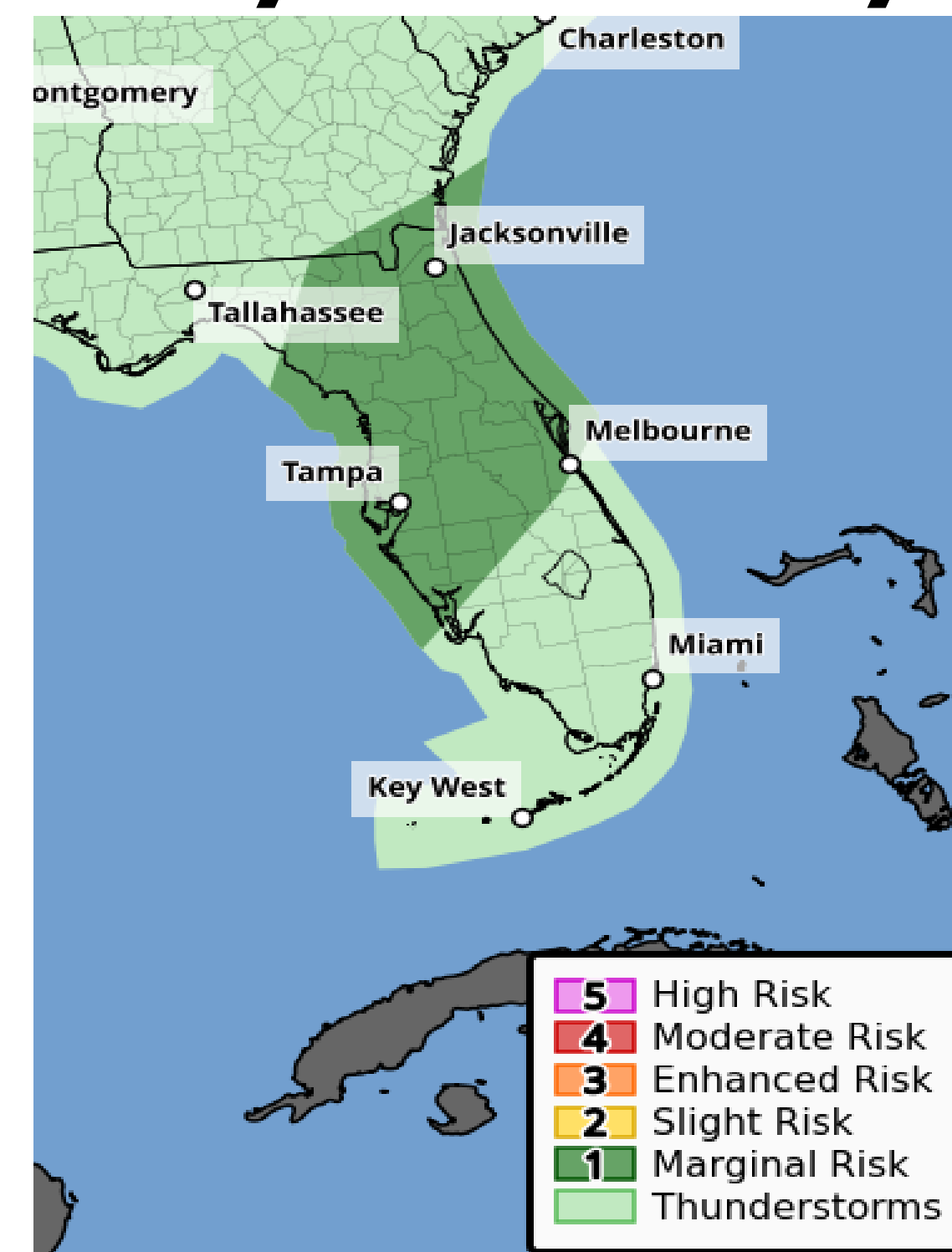


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Day 1 - Saturday



Day 2 - Sunday





Key Messages

Tropical Depression Four




Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Depression Four

Advisory 4: 5:00 AM EDT Sat Aug 03, 2024

1. Heavy rainfall may result in locally considerable flash and urban flooding across portions of Florida and the coastal areas of the Southeast U.S. this weekend through Wednesday. Isolated river flooding will also be possible.
2. A Hurricane Watch has been issued for portions of west-central Florida and the Big Bend region, where hurricane conditions are possible late Sunday. Tropical storm conditions are expected farther south along Florida's west coast, including the Tampa Bay area, and across the Dry Tortugas where Tropical Storm Warnings are in effect.
3. There is a possibility of life-threatening inundation from storm surge along portions of the west coast of Florida from Bonita Beach to Aucilla River, including Tampa Bay and Charlotte Harbor, where a Storm Surge Watch is in effect.
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.




Tropical Depression Four
Saturday August 03, 2024
5 AM EDT Advisory 4
NWS National Hurricane Center

Current information: x
Center location 22.0 N 80.7 W
Maximum sustained wind 30 mph
Movement WNW at 16 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 Strm
Warnings: Hurricane Trop Strm
Current wind field estimate: Hurricane Trop Strm

Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Tropical Depression Four
Sat. Aug. 3, 2024 5 am EDT
Advisory 4

Storm Location ○ = 34 kt (39 mph)
● = 34-63 kt (39-73 mph)
● = 64 kt (74 mph)

Wind Speed 5 10 20 30 40 50 60 70 80 90 100 %

5-day chance of receiving sustained 34+ kt (39+ mph) winds

All Times EDT

For more information go to hurricanes.gov

Marine Key Messages:

- Seas are expected to build above 12 ft today in the southeast Gulf
- Seas will peak near 20 ft off the Florida Big Bend Sunday
- Rough seas will impact the NE Florida Coast and the Carolinas Tue through Thu as the center of the cyclone meanders off the SE US coast

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



TROPICAL DEPRESSION FOUR BRIEFING

TIME of NEXT NHC Advisory:
15 UTC: 11 AM EDT

The Next Briefing Will Be:
Sunday 9:00 AM EDT

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

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



NHC_TAFB

www.nhc.noaa.gov