

IMPACTS FOR D7 (through next 5 days)

Winds – High

Storm Surge – Extreme

Rainfall/Flash Flooding – Extreme

Tornadoes – Medium

Waves - High

HURRICANE DEBBY BRIEFING



8:30 AM EDT

Monday, August 5, 2024

Prepared by:

Keren Rosado-Vázquez

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



Changes Since Last Briefing

Hurricane Debby



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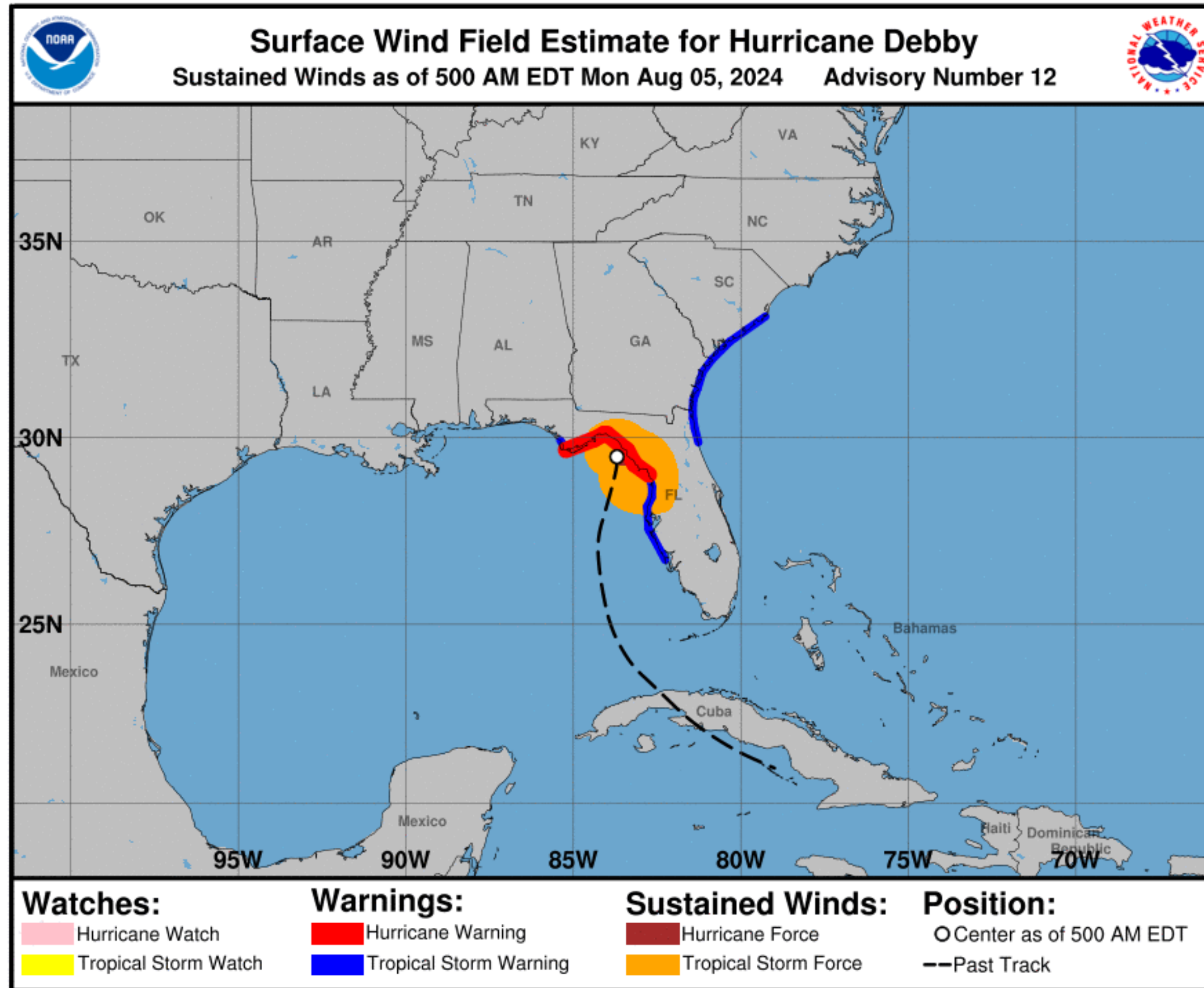
- ...DEBBY MAKES LANDFALL NEAR STEINHATCHEE FLORIDA...
 - At 7:00 AM AT 29.7N 83.5W 5 MILES W OF STEINHATCHEE
 - MAX WIND 70 KT
- NO OTHER SIGNIFICANT CHANGES TO THE FORECAST.

Situation Overview

Hurricane Debby



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...DEBBY JUST INLAND IN THE FLORIDA BIG BEND REGION... EXPECTED TO BRING MAJOR FLOODING OVER THE SOUTHEASTERN UNITED STATES DURING THE NEXT FEW DAYS...

SUMMARY...

LOCATION...29.9N 83.4W

**ABOUT 60 MI NNW OF CEDAR KEY
FLORIDA**

MAXIMUM SUSTAINED WINDS...75 MPH

**PRESENT MOVEMENT...NNE OR 20 DEGREES
AT 10 MPH**

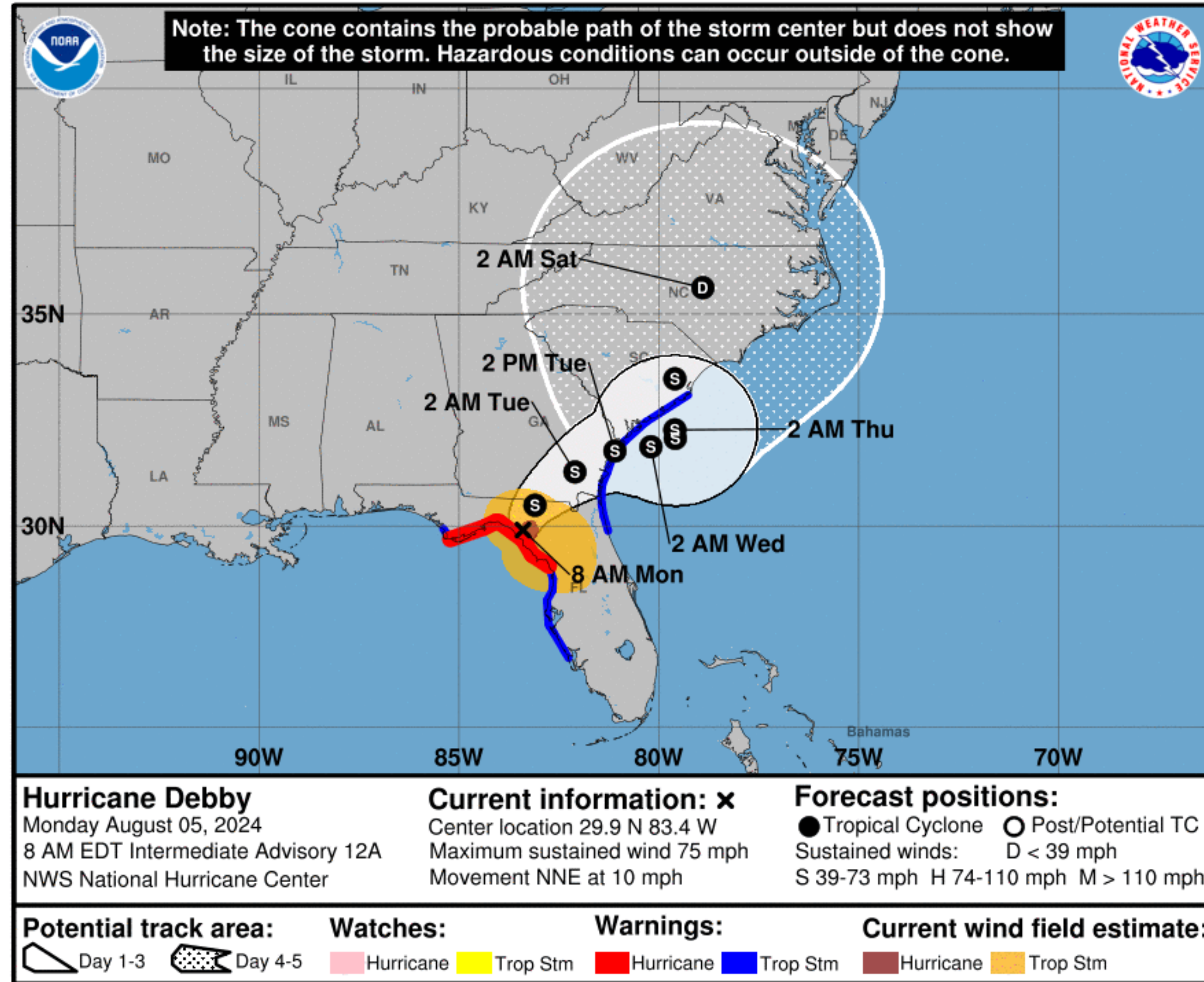
**MINIMUM CENTRAL
PRESSURE...979 MB**

Forecast Information

Hurricane Debby



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- A gradual decrease in forward speed with a turn toward the northeast and east is expected later today and Tuesday.
- Debby is expected to move slowly across northern Florida and southern Georgia late today and Tuesday, and be near the Georgia coast by Tuesday night.
- Debby will likely become a tropical storm over northern Florida this afternoon.
- If Debby does move back offshore of the southeast U.S., there could be a little strengthening before it moves inland once again.
- 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.

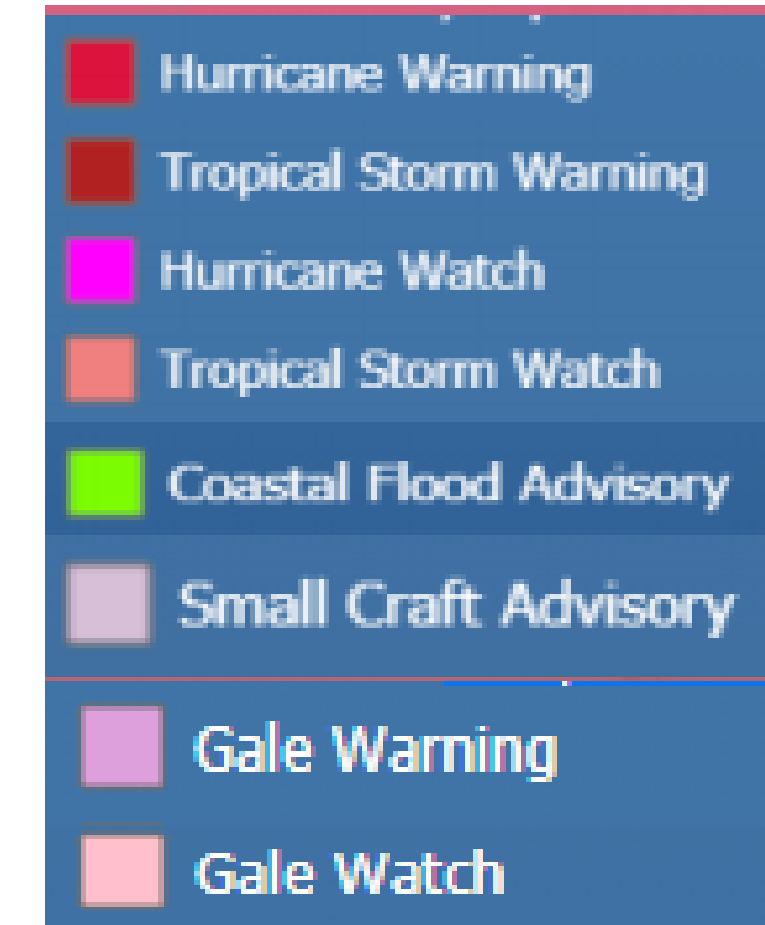
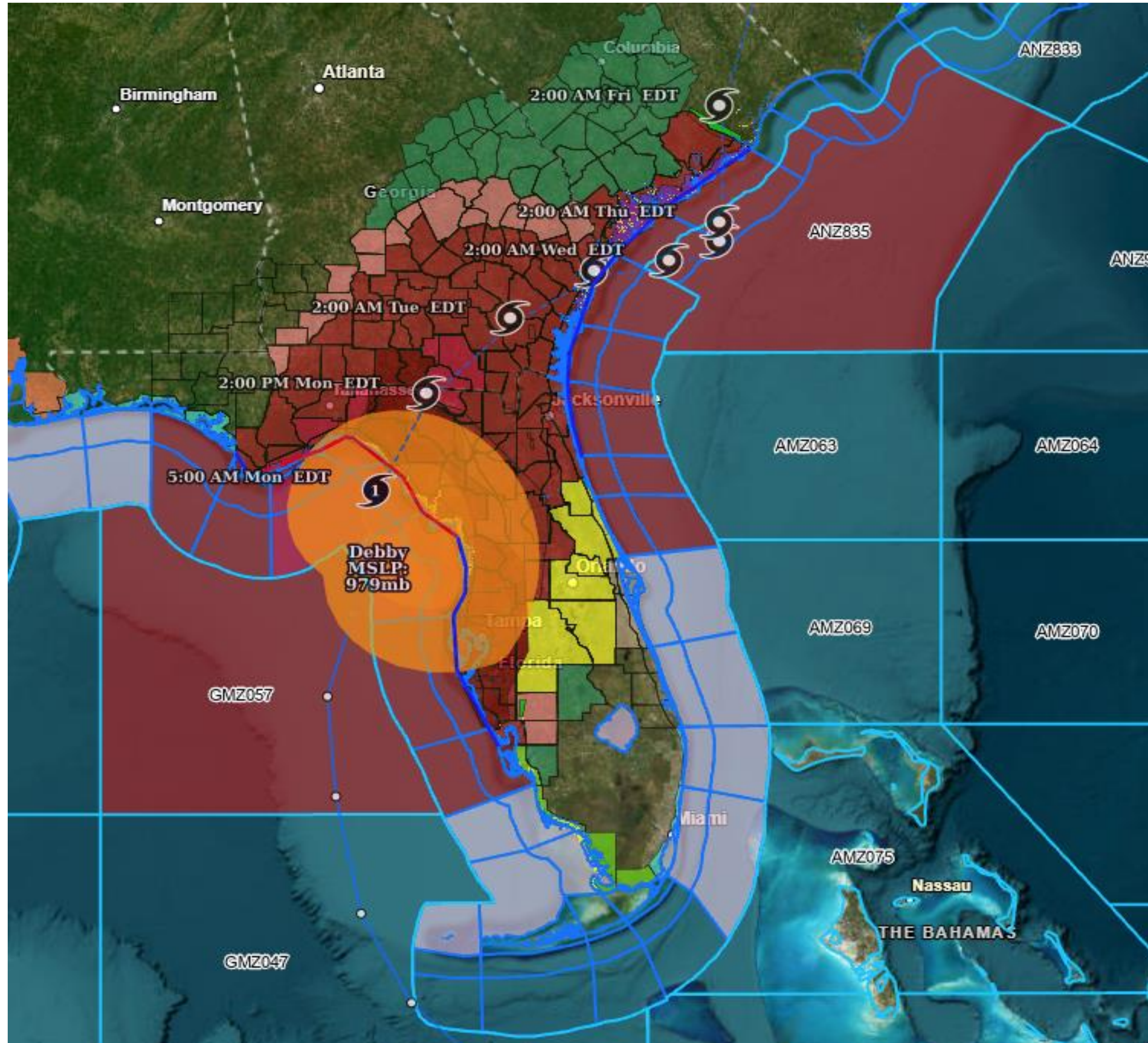
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Hurricane Debby



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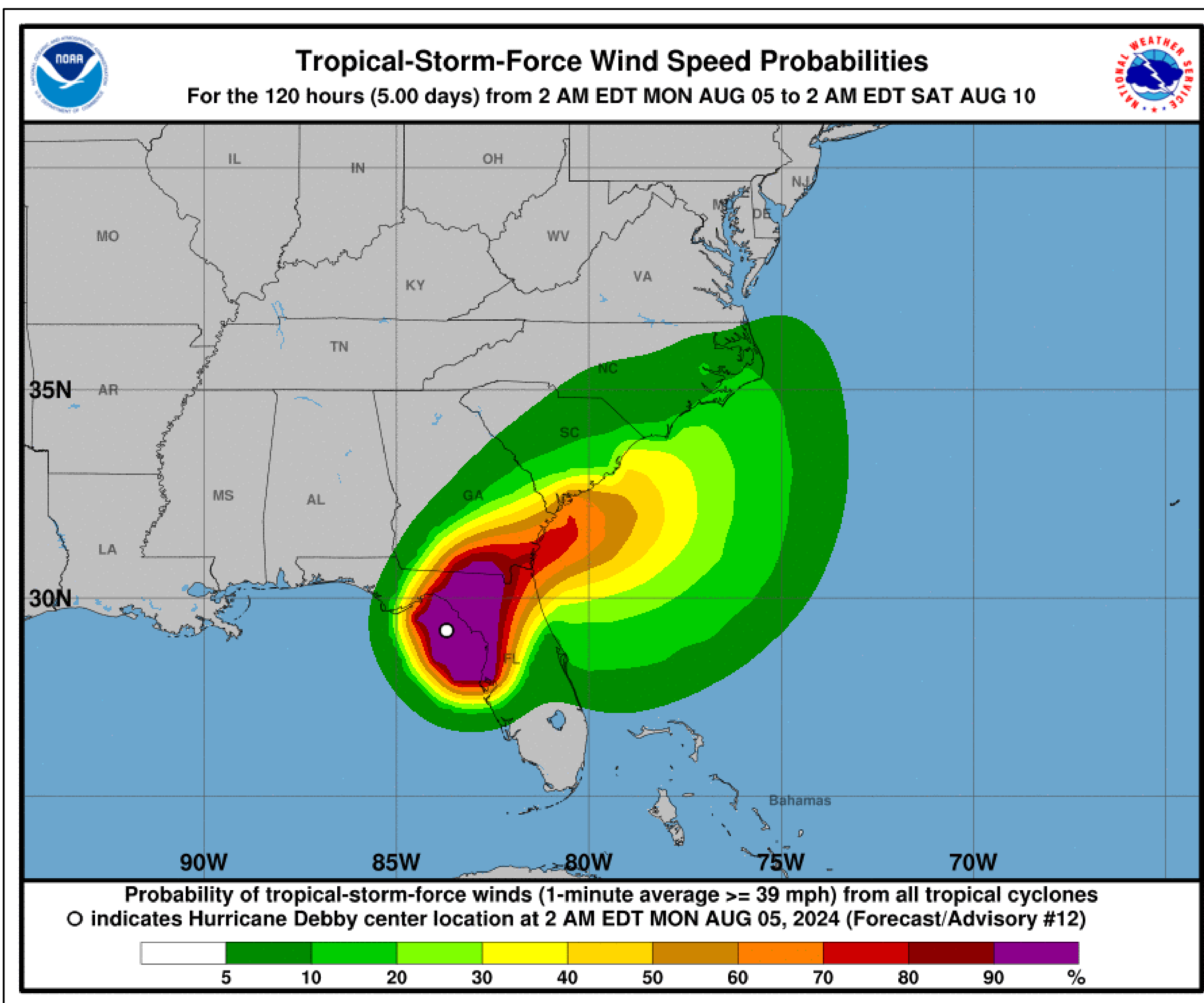
■ <https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Hurricane Debby



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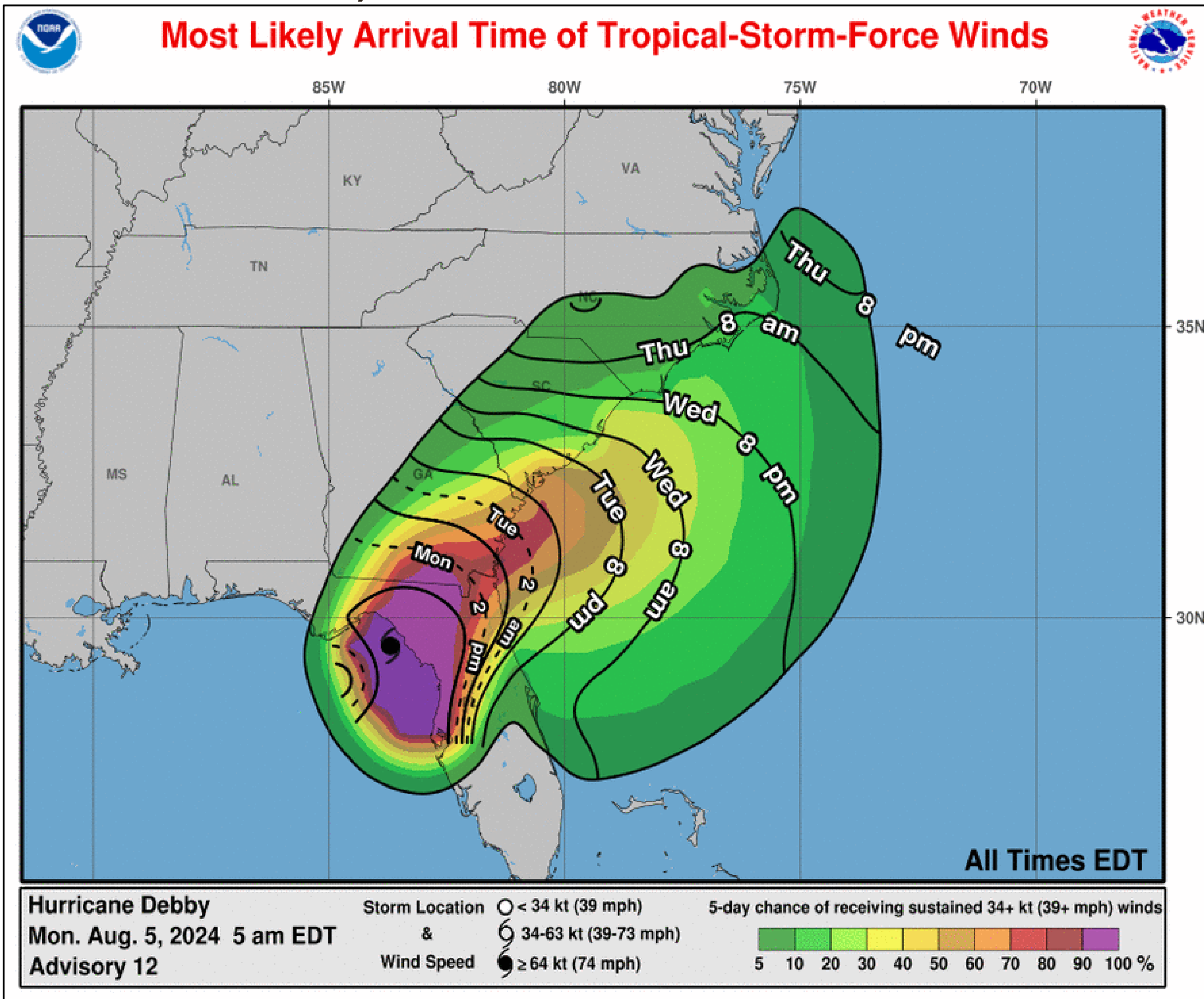
- TAMPA 99%
- TALLAHASSEE 18%
- CEDAR KEY FL 99%
- APALACHICOLA 5%
- ST MARKS 52%
- PANAMA CITY 04%
- JACKSONVILLE 68%
- SAVANNAH 43%
- BEAUFORT 59%
- CHARLESTON 49%
- MYRTLE BEACH 35%

-**Green** indicates probabilities have gone down since last briefing
-**Red** indicates probabilities have gone up since last briefing
-**Black** indicates probabilities remain the same

- 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 Debby



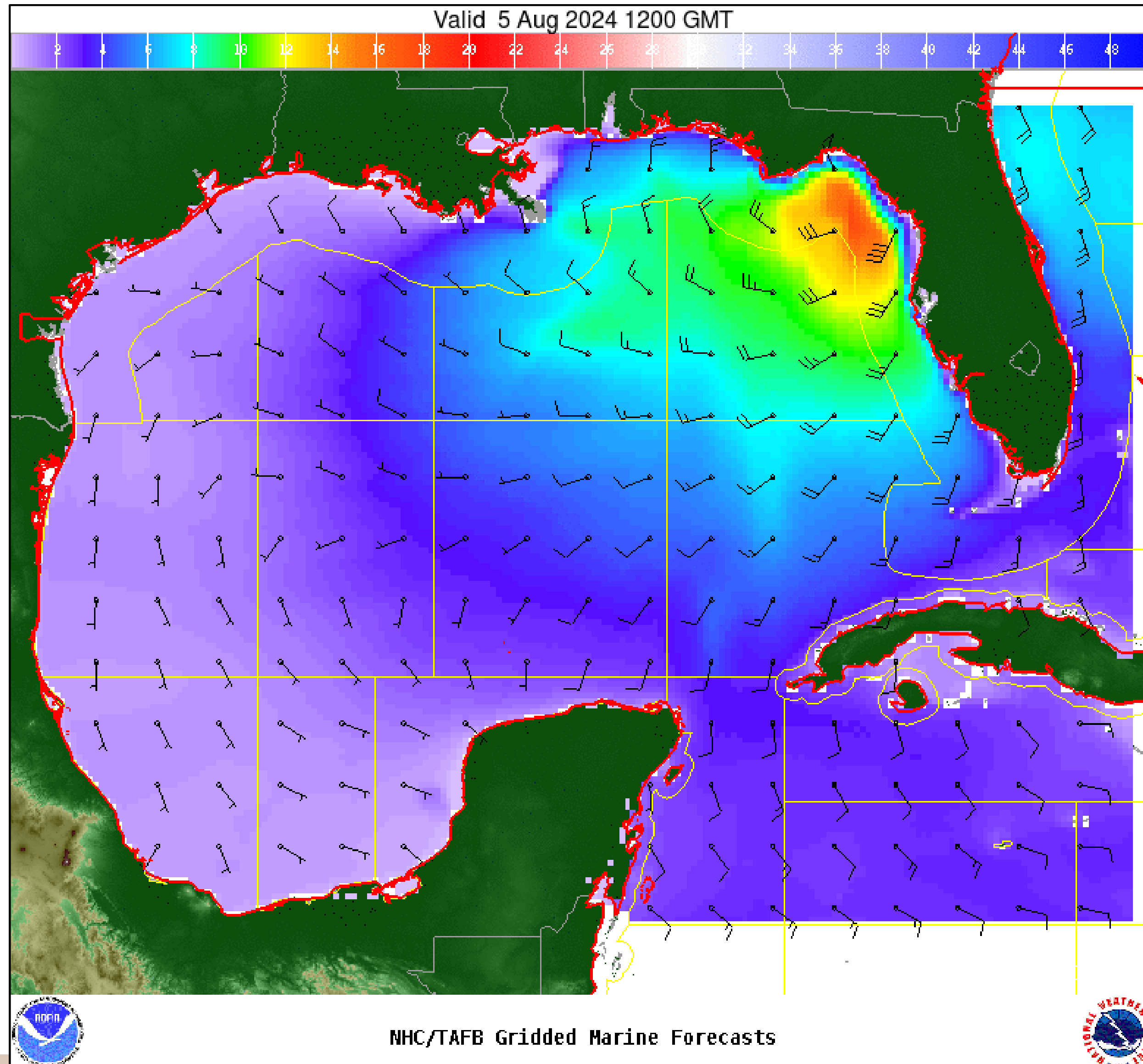
- Jacksonville FL – This afternoon
- Savannah GA – Tuesday early morning
- South Carolina – Tuesday afternoon
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- 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

Hurricane Debby



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Current Conditions

August 5th 8:00 AM EDT

Peak Winds: 40 kt

Peak Seas: 11 ft

■ Wave heights are in feet



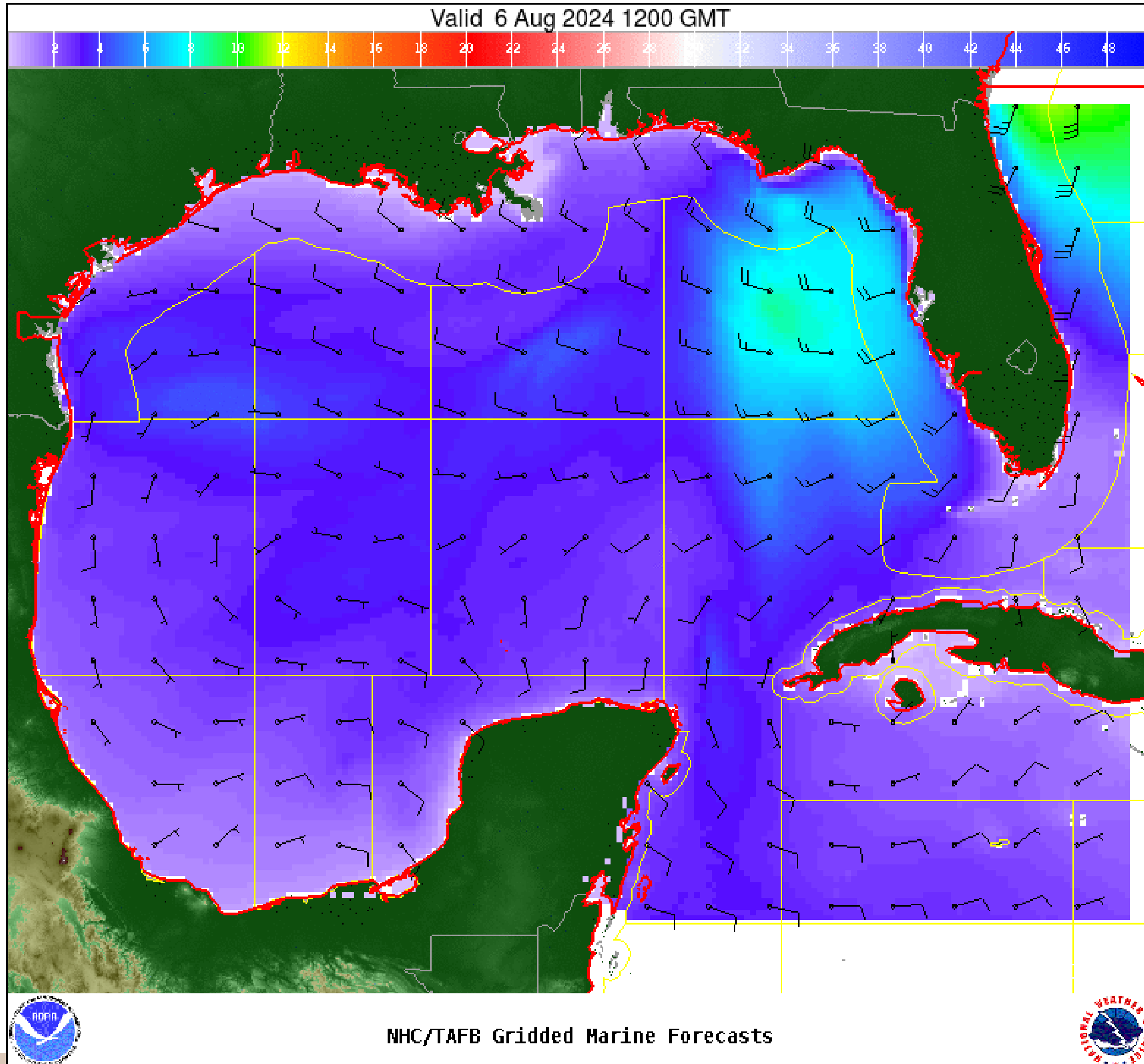
Significant Wave Height (ft)

Wind And Waves

Hurricane Debby



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24 Hour Forecast

Tuesday, Aug 6th 8:00 AM EDT

Peak Winds: 25 kt

Peak Seas: 8 kt

■ Wave heights are in feet



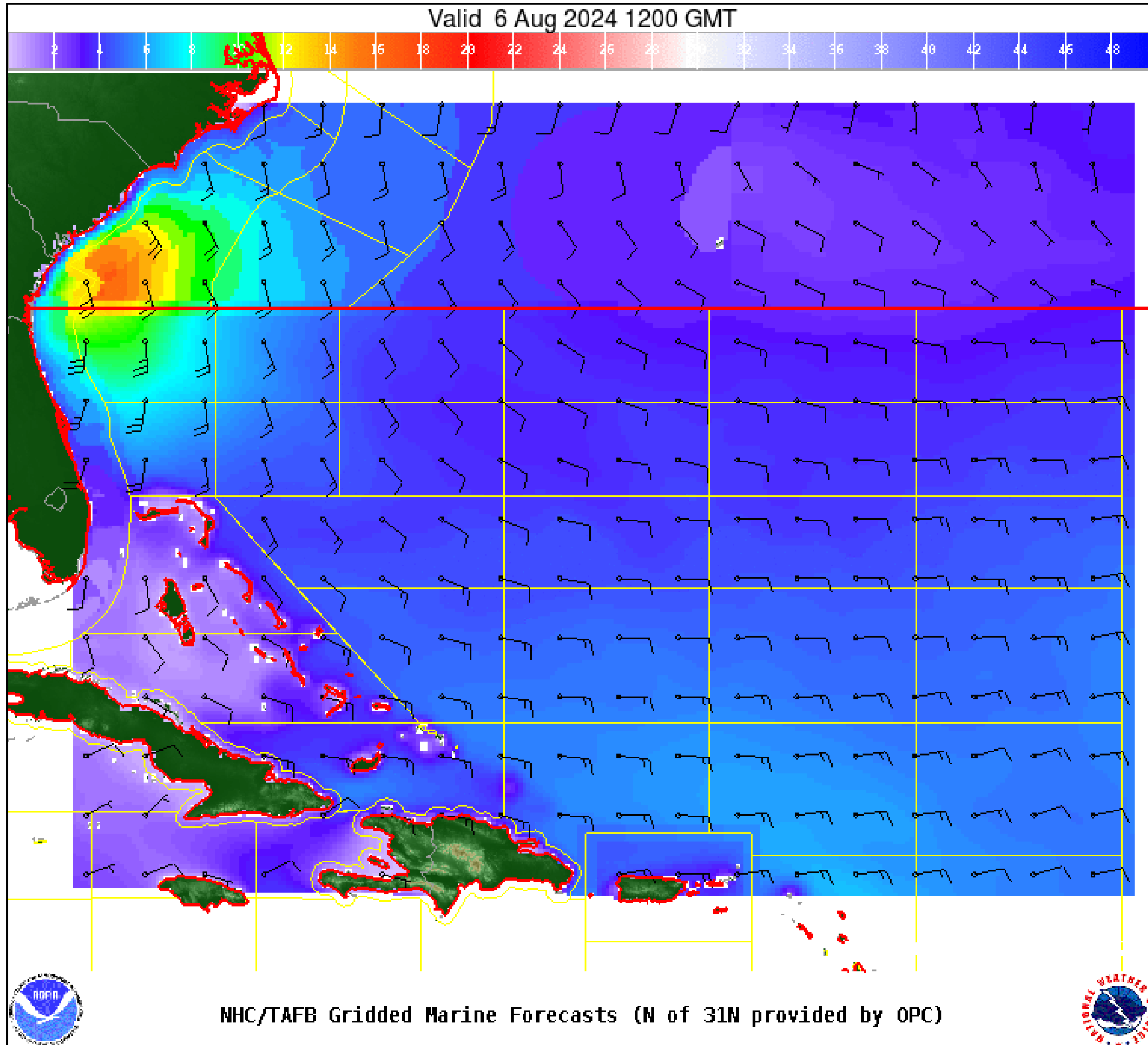
Significant Wave Height (ft)

Wind And Waves

Hurricane Debby



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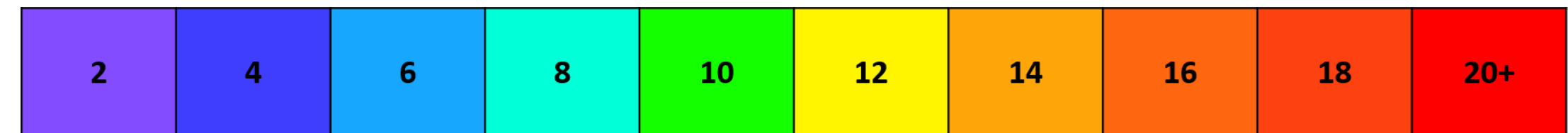
24 Hour Forecast

Tuesday, Aug 6th 8:00 AM EDT

Peak Winds: 45 kt

Peak Seas: 18 ft

■ Wave heights are in feet



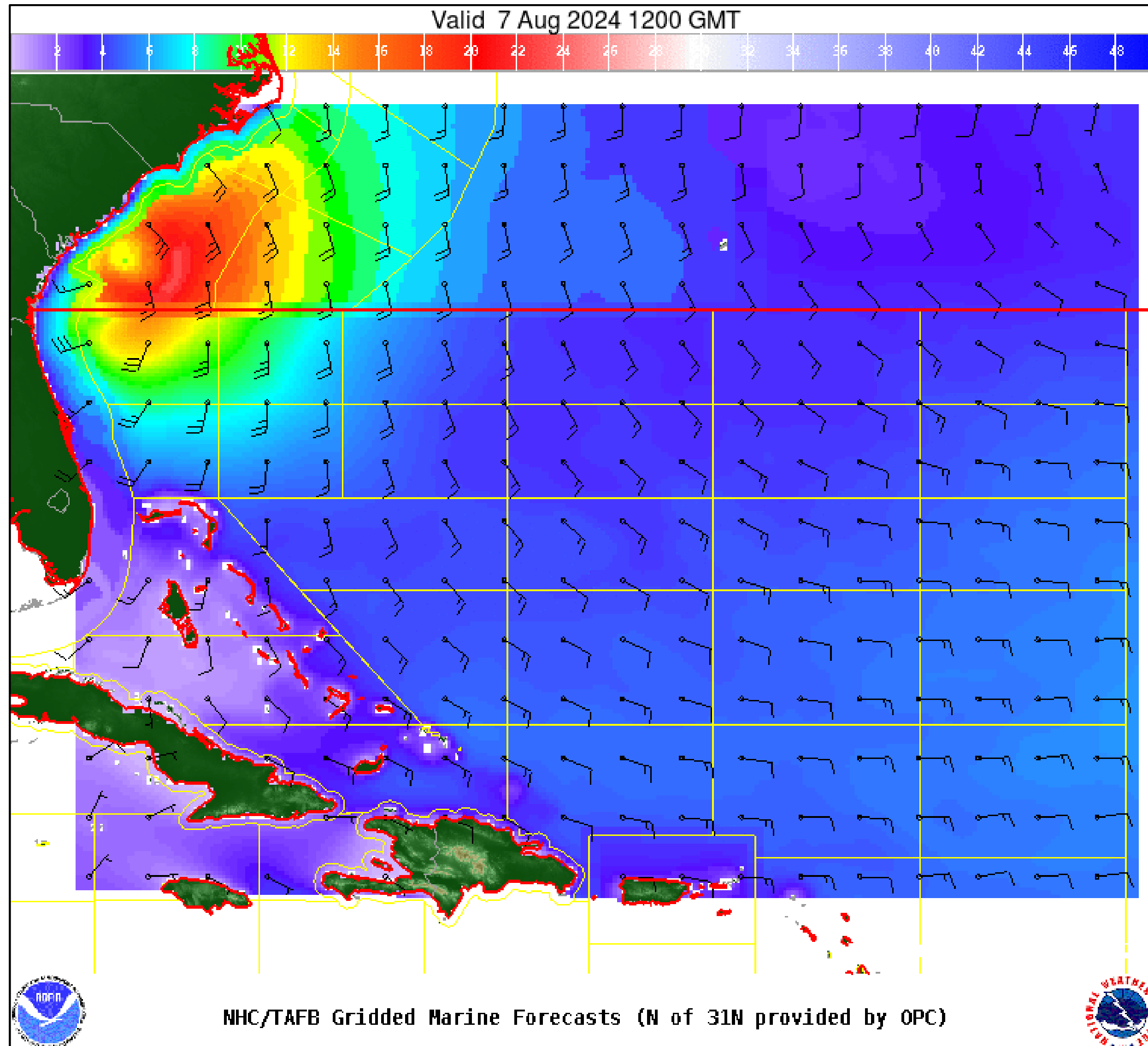
Significant Wave Height (ft)

Wind And Waves

Hurricane Debby



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48 Hour Forecast

Wednesday Aug 7th 8:00 AM EDT

Peak Winds: 45 kt

Peak Seas: 20 ft

■ Wave heights are in feet



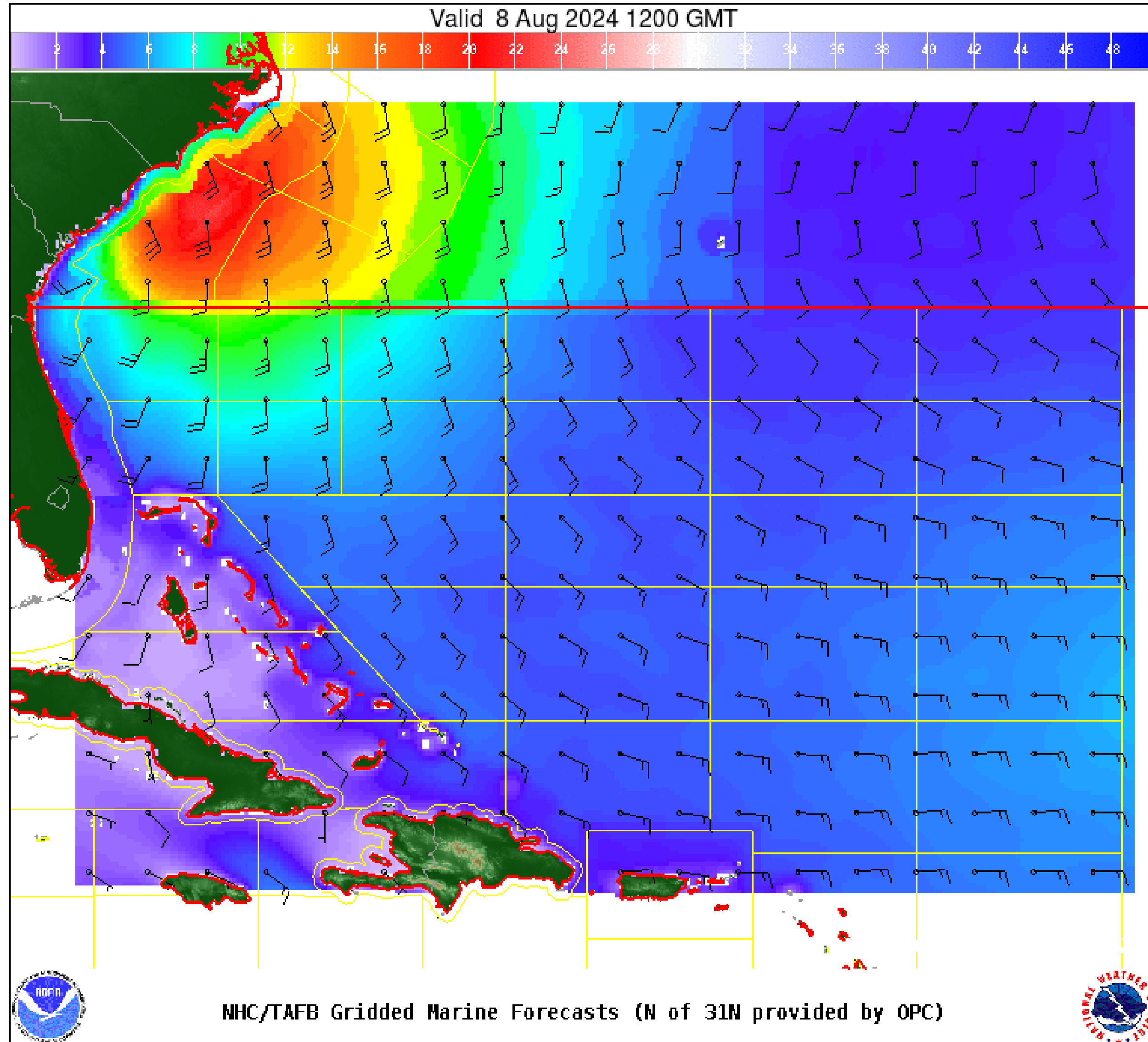
Significant Wave Height (ft)

Wind And Waves

Hurricane Debby



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72 Hour Forecast

Thursday Aug 8th 8:00 AM EDT

Peak Winds: 50 kt

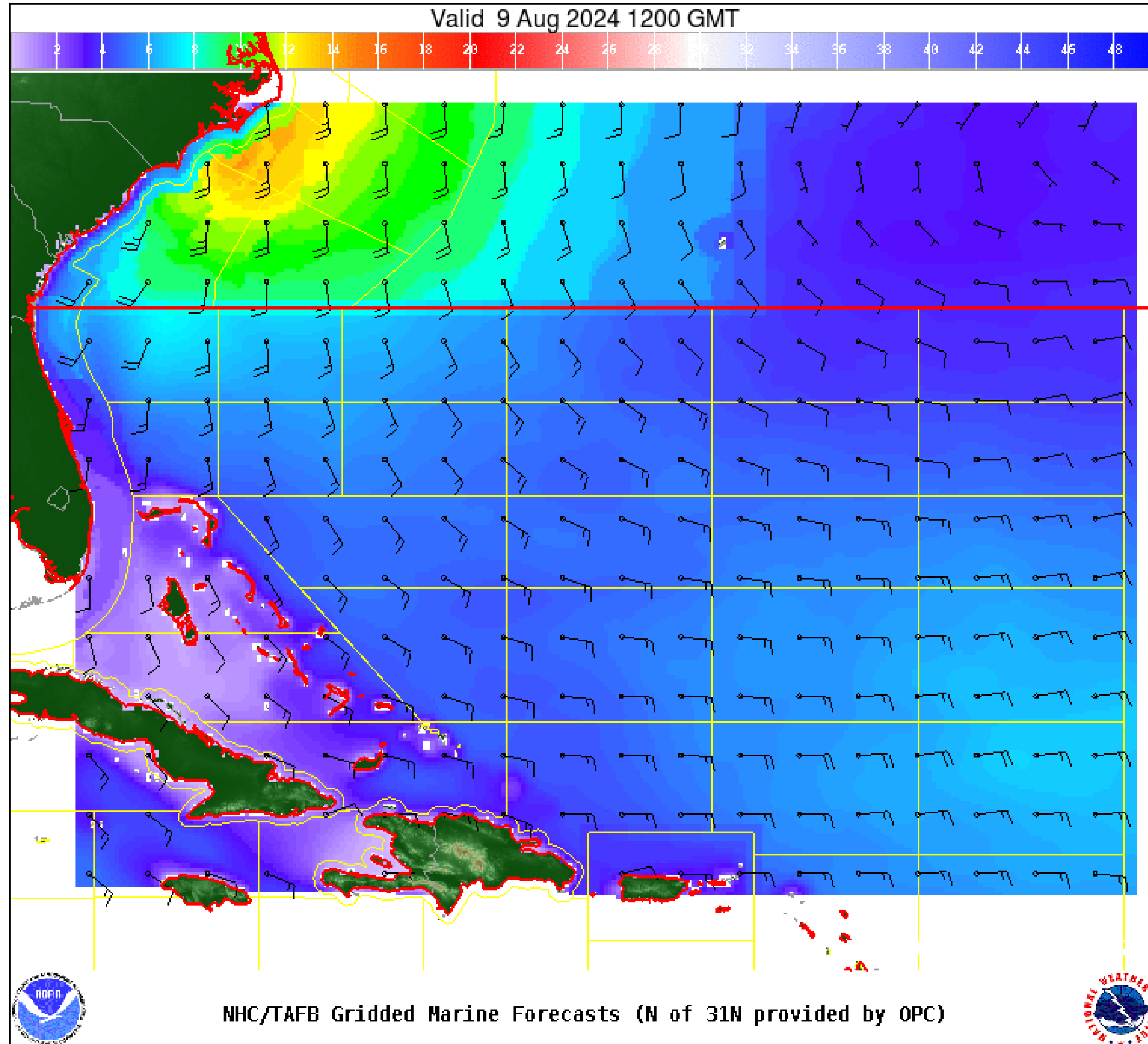
Peak Seas: 25 ft

Wind And Waves

Hurricane Debby



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96 Hour Forecast

Friday Aug 9th 8:00 AM EDT

Peak Winds: 30 kt D7 waters

Peak Seas: 12 ft

■ Wave heights are in feet



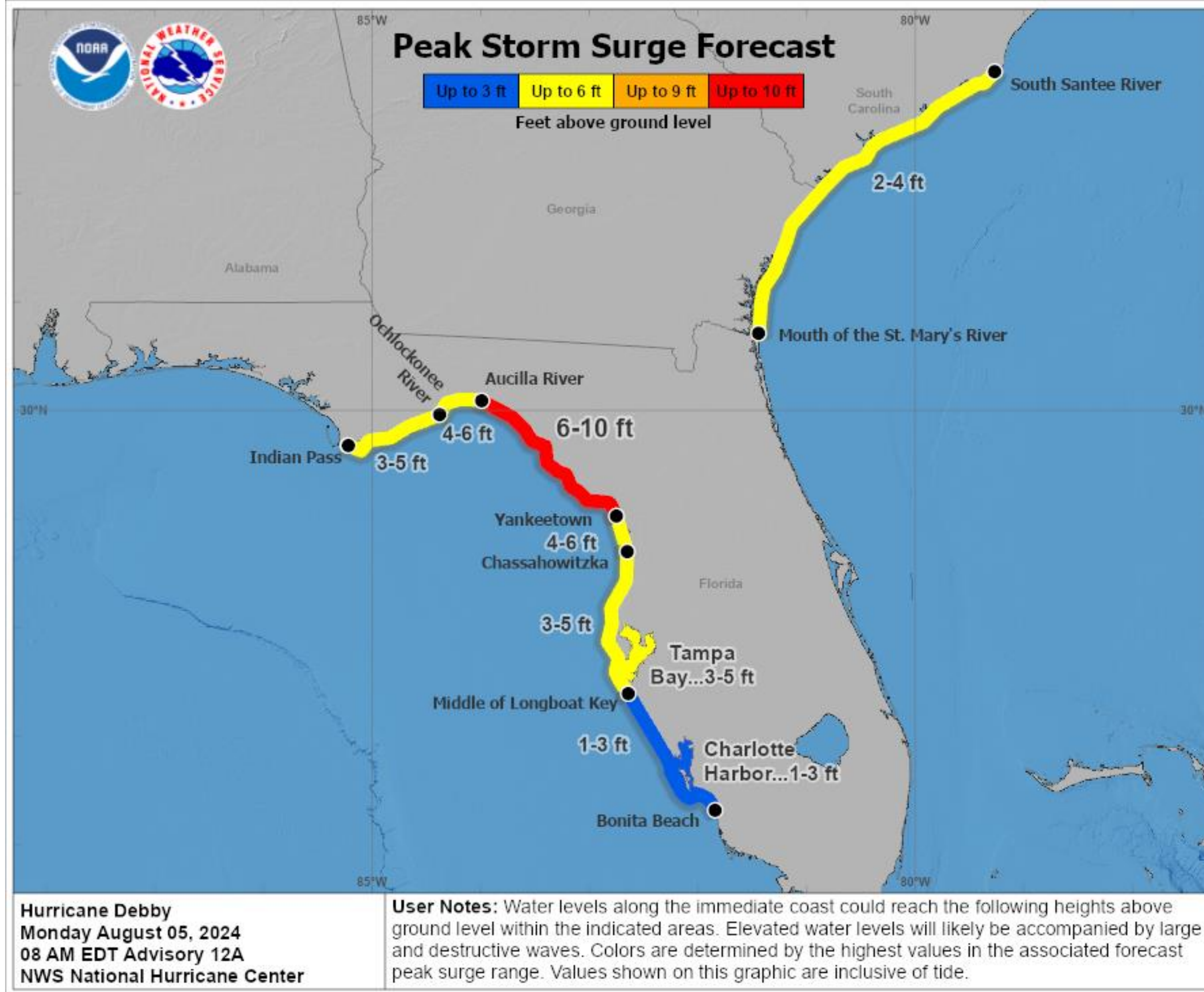
Significant Wave Height (ft)

Potential Peak Storm Surge / Watches and Warnings

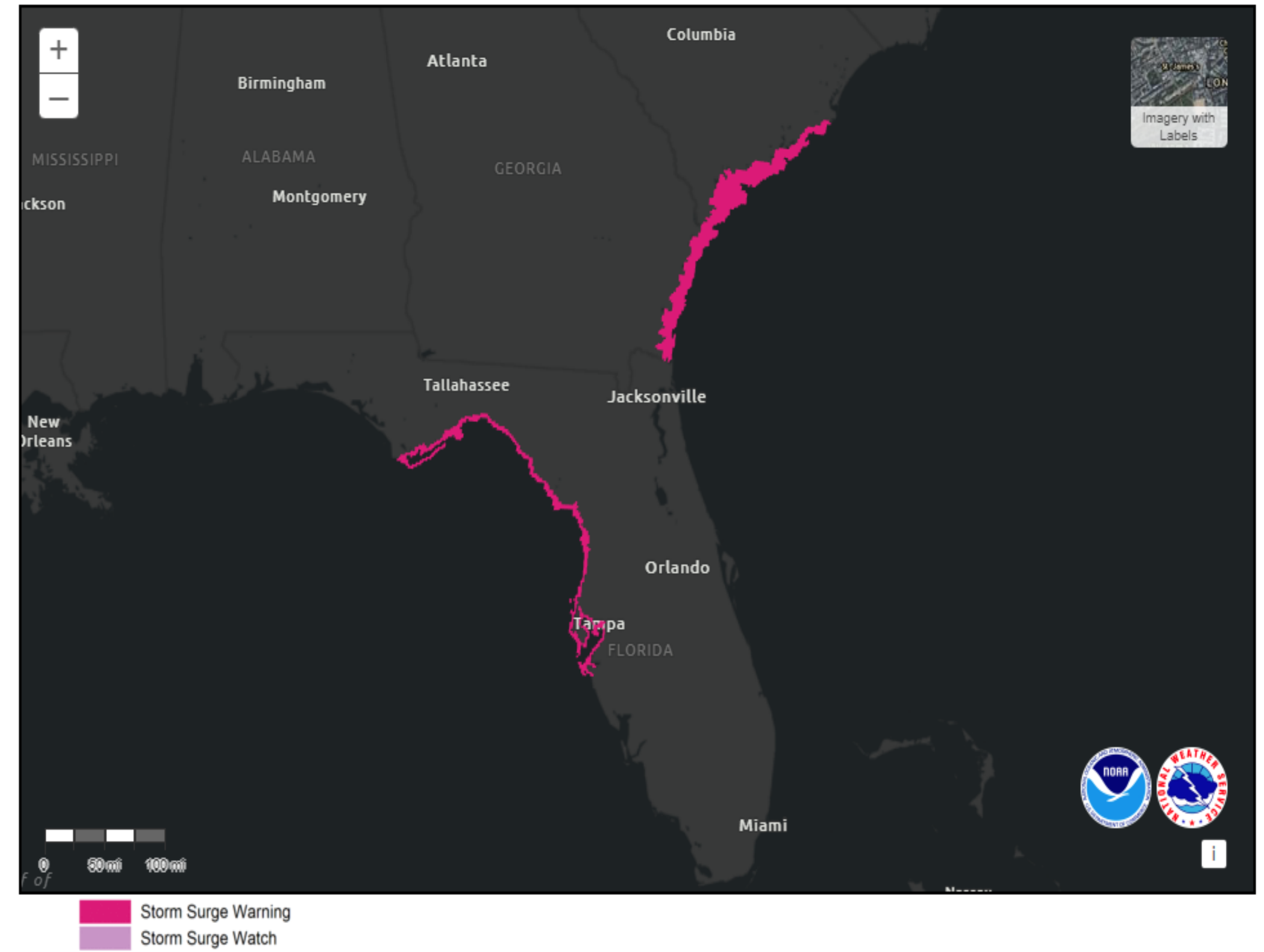


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Hurricane Debby



Hurricane Debby
Advisory 012A — Issued: 8:00 AM EDT Mon Aug 5



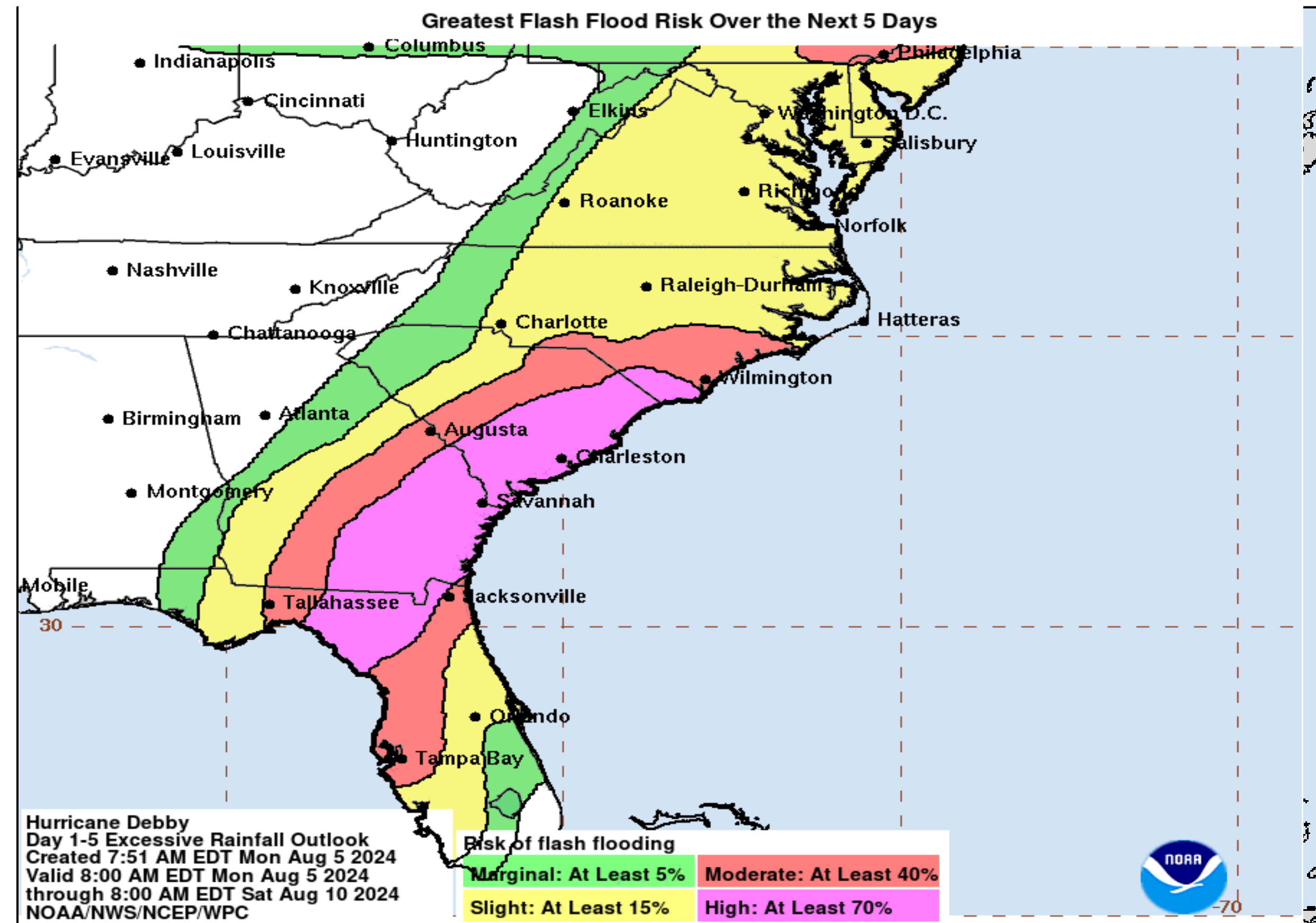
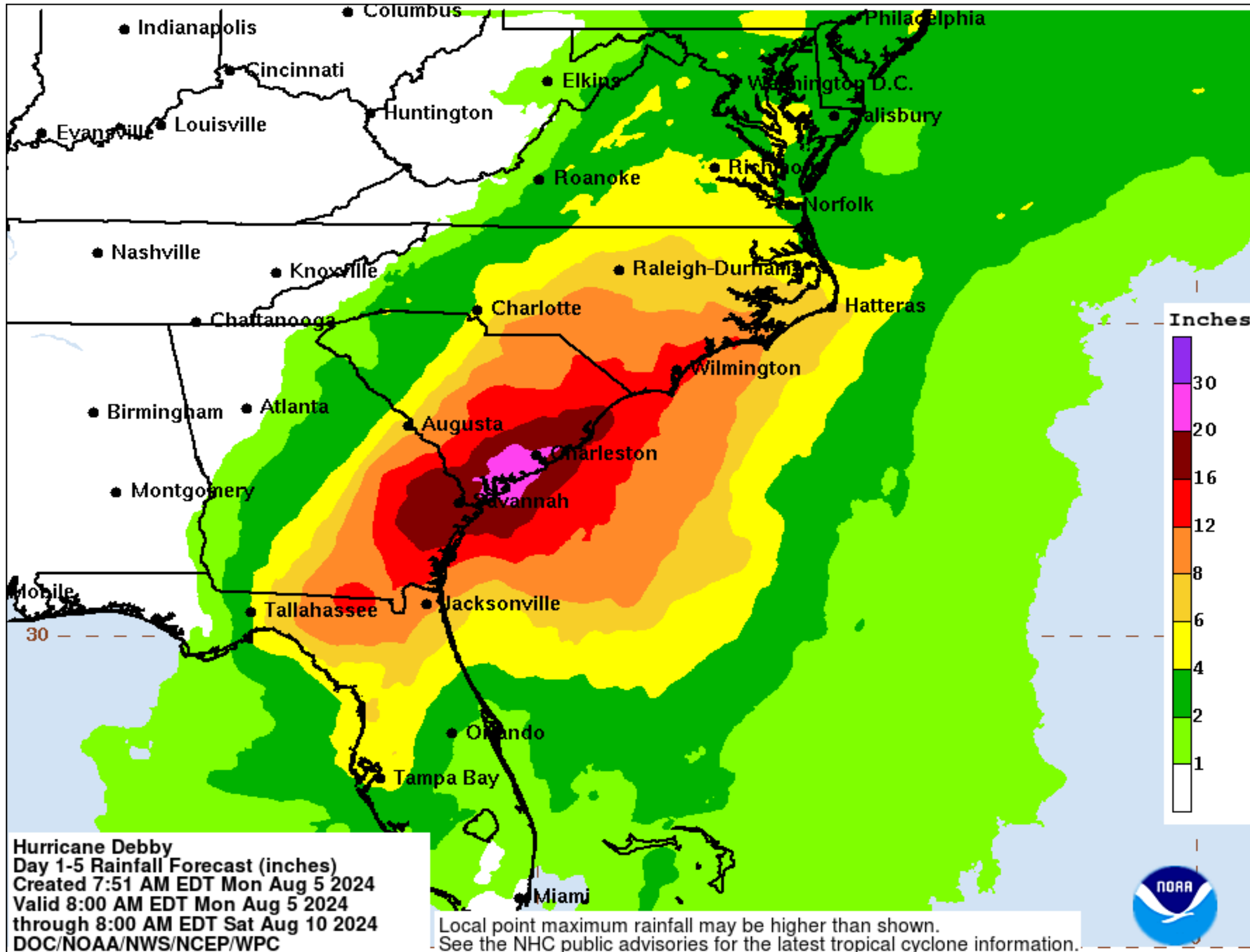
Expected Storm Total Rainfall and Chance of Rainfall Flooding



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Hurricane Debby

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%**

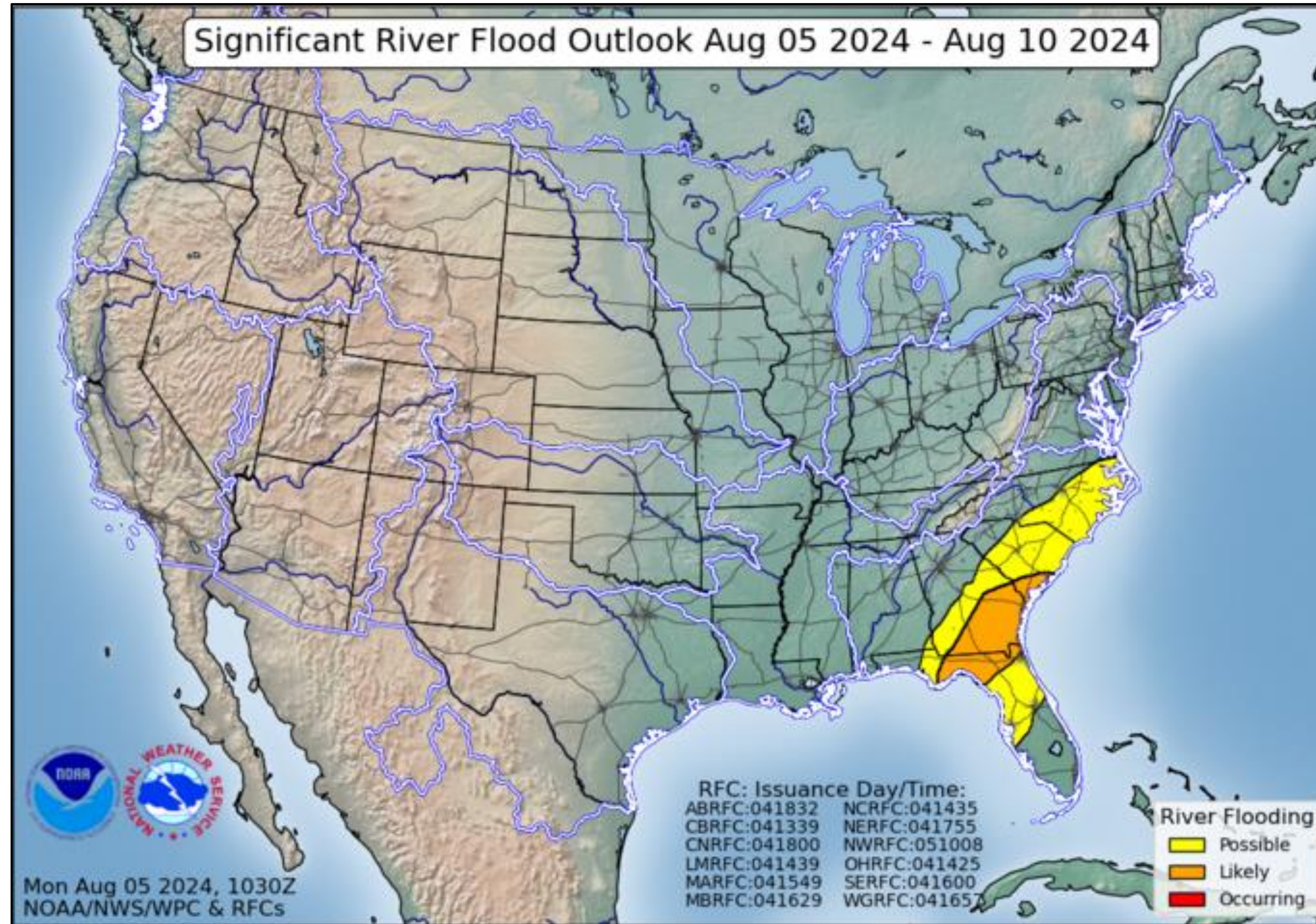
Refer to map legend for Valid Time

Flood Outlook

Hurricane Debby



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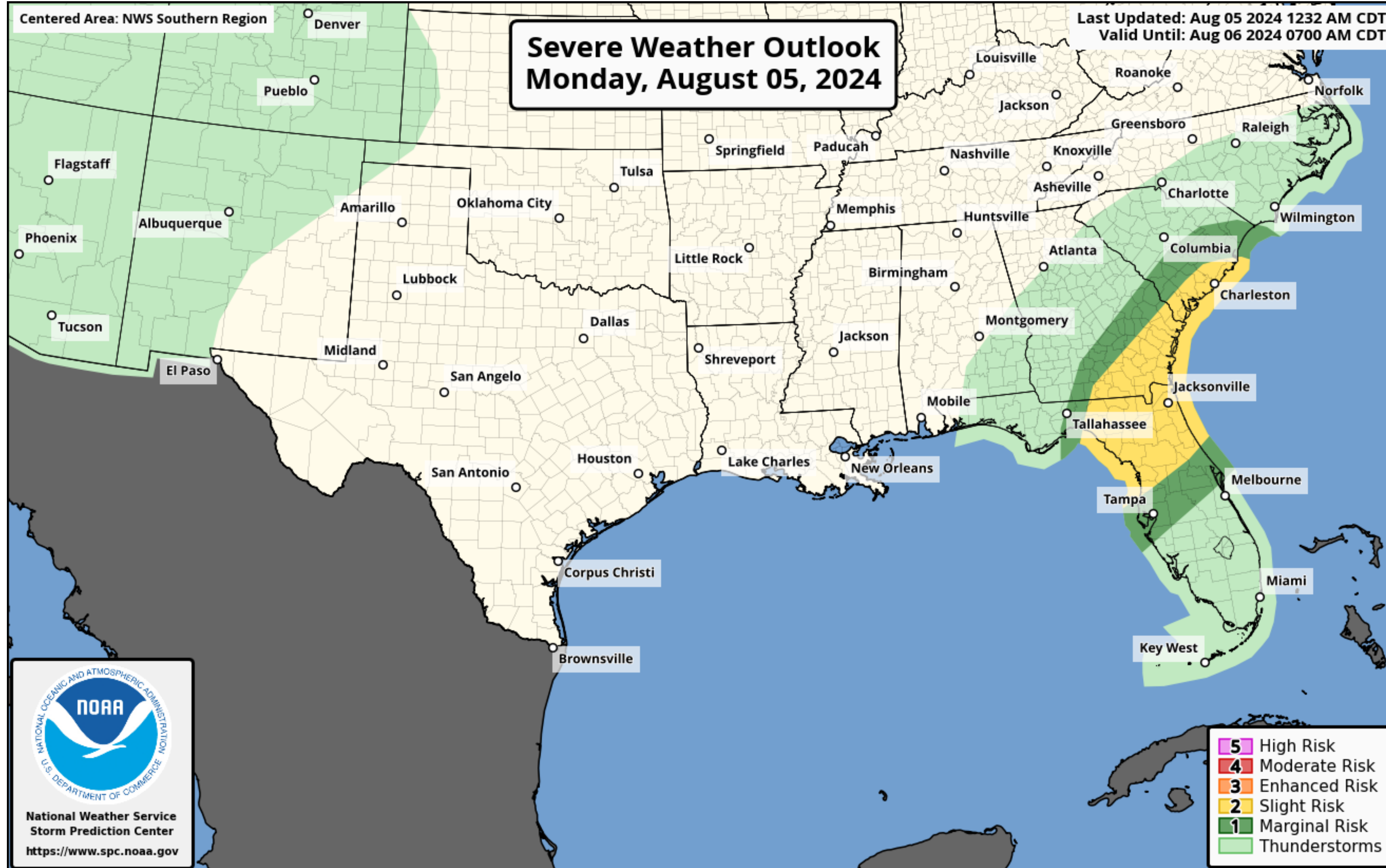
Tornado Outlook – Day 1

Hurricane Debby

Image from NWS Storm Prediction Center



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Key Messages

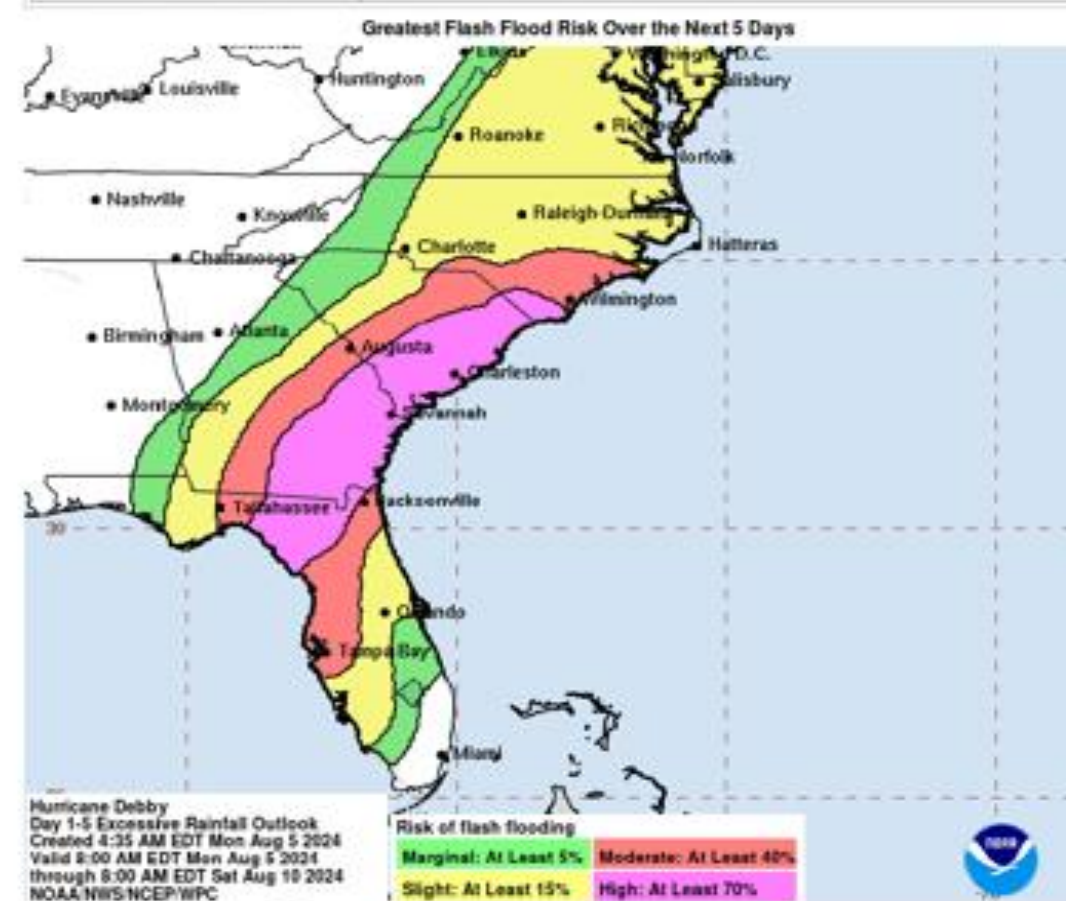
Hurricane Debby



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Key Messages for Hurricane Debby Advisory 12: 5:00 AM EDT Mon Aug 05, 2024

1. Potentially historic heavy rainfall across southeast Georgia and the coastal plain of South Carolina through Saturday morning will likely result in areas of catastrophic flooding. Heavy rainfall will likely result in considerable flooding impacts from portions of central and northern Florida and across portions of central and northeast North Carolina through Saturday morning.
2. There is a danger of life-threatening storm surge along portions of the Gulf Coast of Florida, with 6 to 10 feet of inundation above ground level expected somewhere between Ochlockonee River to Yankeetown through the morning. Residents in the Storm Surge Warning area should follow any advice given by local officials.
3. Hurricane conditions are expected this morning along portions of the Florida Big Bend region where a Hurricane Warning is in effect. Tropical storm conditions are expected to continue for several more hours farther south within the Tropical Storm Warning area along Florida's west coast, including the Tampa Bay area.
4. Dangerous storm surge and wind impacts are expected along portions of the southeast U.S. coast from northeastern Florida to North Carolina through the middle of the week, and storm surge warnings and tropical storm watches and warnings are in effect for portions of these areas.



For more information go to hurricanes.gov

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Tornadoes – Medium
Waves - High

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



HURRICANE DEBBY BRIEFING

TIME of NEXT NHC Advisory:

15 UTC: 11 AM EDT

The Next Briefing Will Be:

Tuesday 8:30 AM EDT

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



NHC_TAFB

www.nhc.noaa.gov