IMPACTS FOR D8 (through next 5 days) Winds – Low Storm Surge – Low **Rainfall/Flash Flooding – Low Tornadoes – Low** Waves - Low

TROPICAL STORM DEBBY BRIEFING

NATIONAL CENTER MIAMI FLORIDA

NHC_TAFB

IMPACTS FOR D7 (through next 5 days) Winds – Medium **Storm Surge – Medium** Rainfall/Flash Flooding – High **Tornadoes – Low** Waves - Medium

5:00 PM EDT / 4:00 PM CDT Saturday, August 3, 2024 Prepared by: Amanda Reinhart **Tropical Analysis and Forecast Branch NWS National Hurricane Center**



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Changes since Last Briefing

Tropical Storm Debby

- Debby has now been upgraded to a Tropical Storm
- hurricane
 - **Ochlockonee River**
- totals of up to 18 inches are expected across portions of Florida and the southeast US
 - Expect flash and urban flooding with this along with significant river flooding



Although the track has not changed significantly, Debby is expected to make landfall as a Category

As a result, there is a hurricane warning in effect from the Florida Gulf coast from the Suwannee River to the

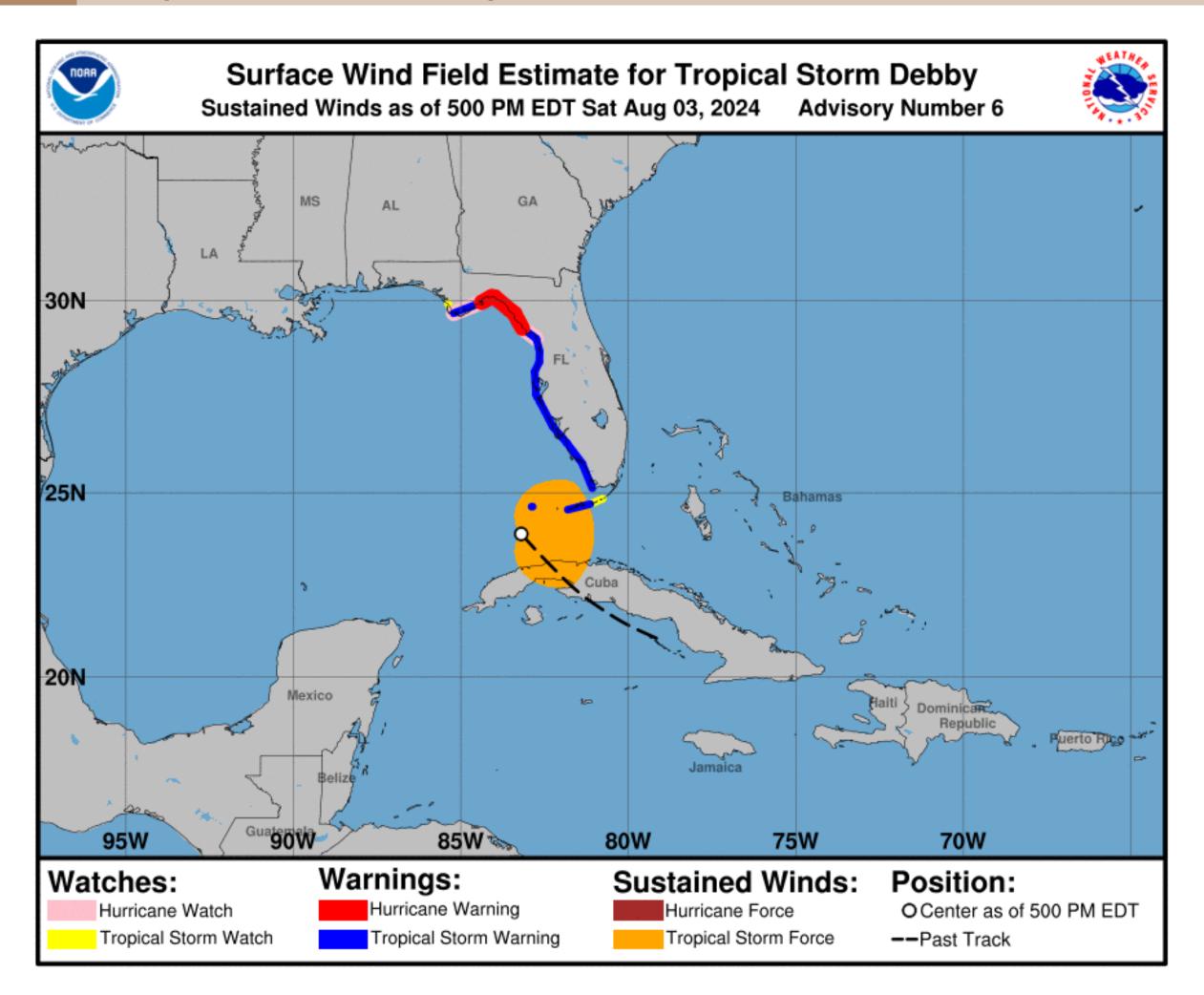
Forecasted rainfall amounts have increased since the last briefing, with 6-12 inches and maximum





Situation Overview

Tropical Storm Debby





... DEPRESSION BECOMES TROPICAL STORM **DEBBY OVER THE SOUTHEASTERN GULF OF** MEXICO...

...HURRICANE WARNINGS ISSUED FOR PORTIONS OF THE GULF COAST OF FLORIDA...

Summary of 500 PM EDT Information

Location...23.9N 83.2W About 60 nm NW of Havana Cuba About 85 nm WSW of Key West Florida Maximum Sustained Winds...35 kt Present Movement...NW at 13 kt

Peak Seas: 11 ft



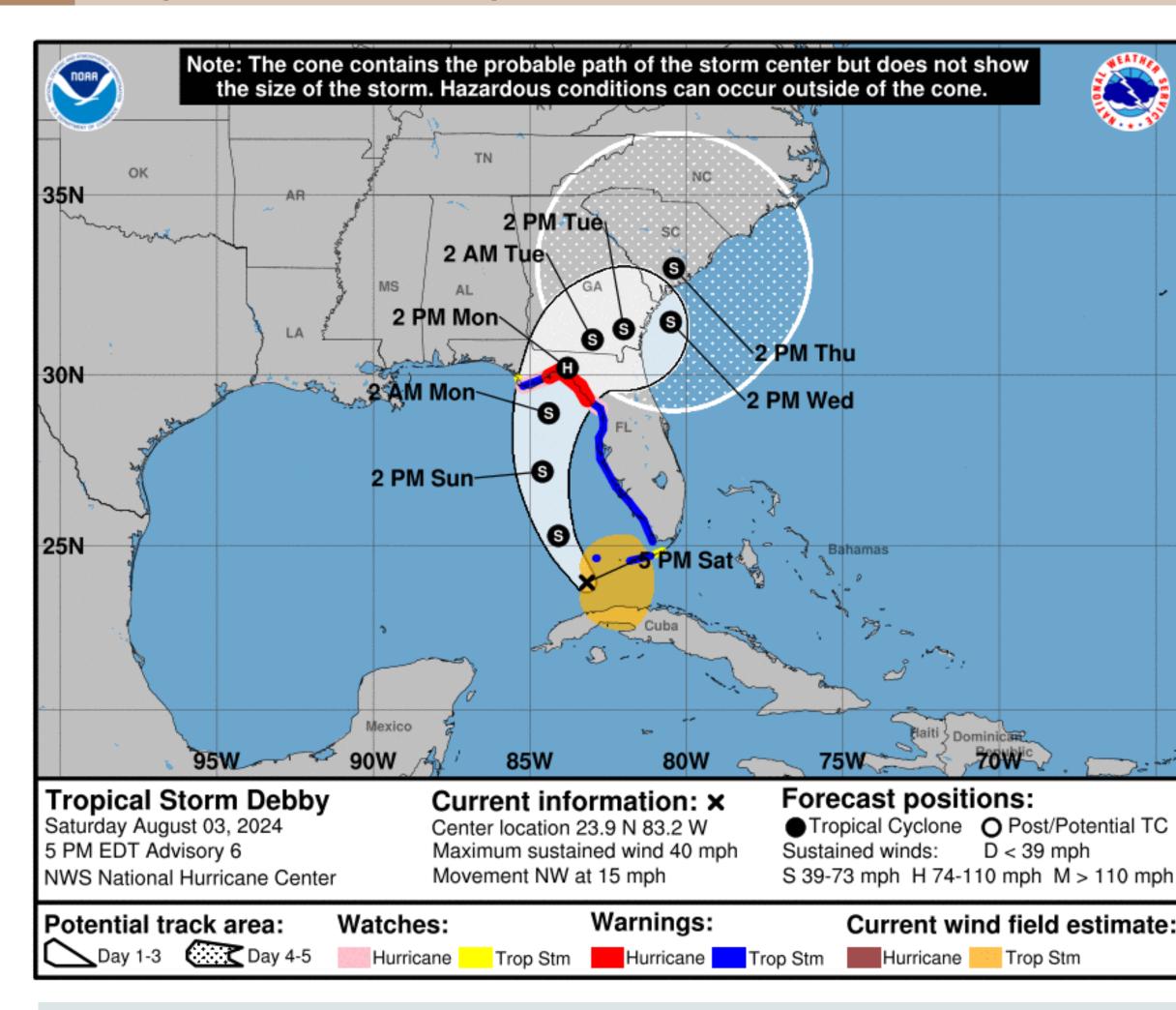






Forecast Information

Tropical Storm Debby



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

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- Debby has now formed into a tropical storm in the southeast Gulf of Mexico wind rain bands already moving across southern and central Florida
- Debby will continue to move northward through Sun afternoon and gradually turn northeast at a slower forward speed, making landfall between Apalachicola and Tampa on Monday
- On the forecast track, Debby will continue to strengthen as it moves across the Gulf due to favorable conditions and is now forecasted to make landfall as a Category I hurricane
- Once Debby makes landfall, the uncertainty in the forecast increases as it moves over Georgia and South Carolina – whether it stays over land or moves back over water
 - The forecasted intensity remains uncertain because of this
 - If it stays over land, weakening will continue but if it goes back over water, could see it remain a tropical storm
- 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 swatch 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.











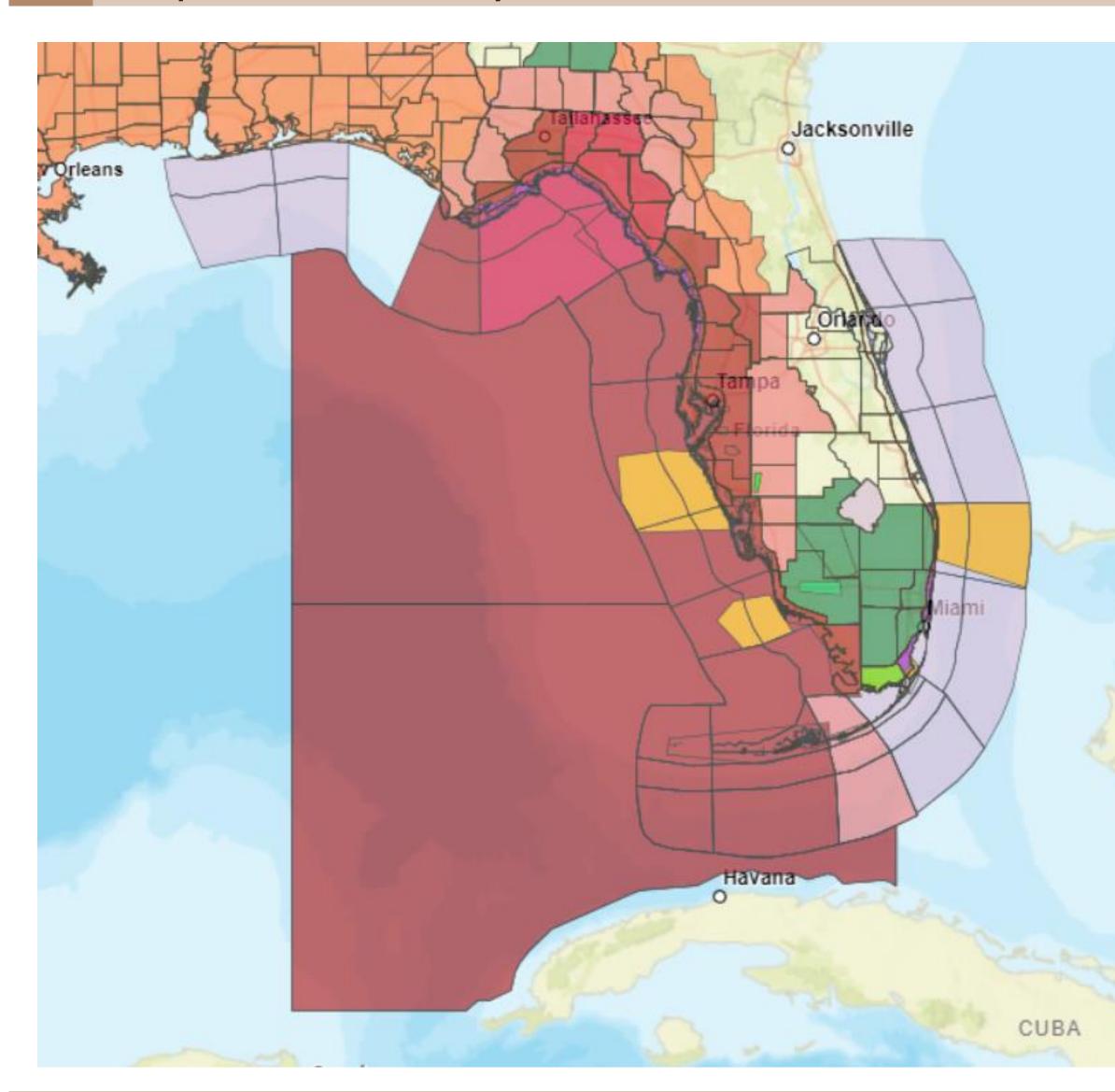






Hazards Map

Tropical Storm Debby



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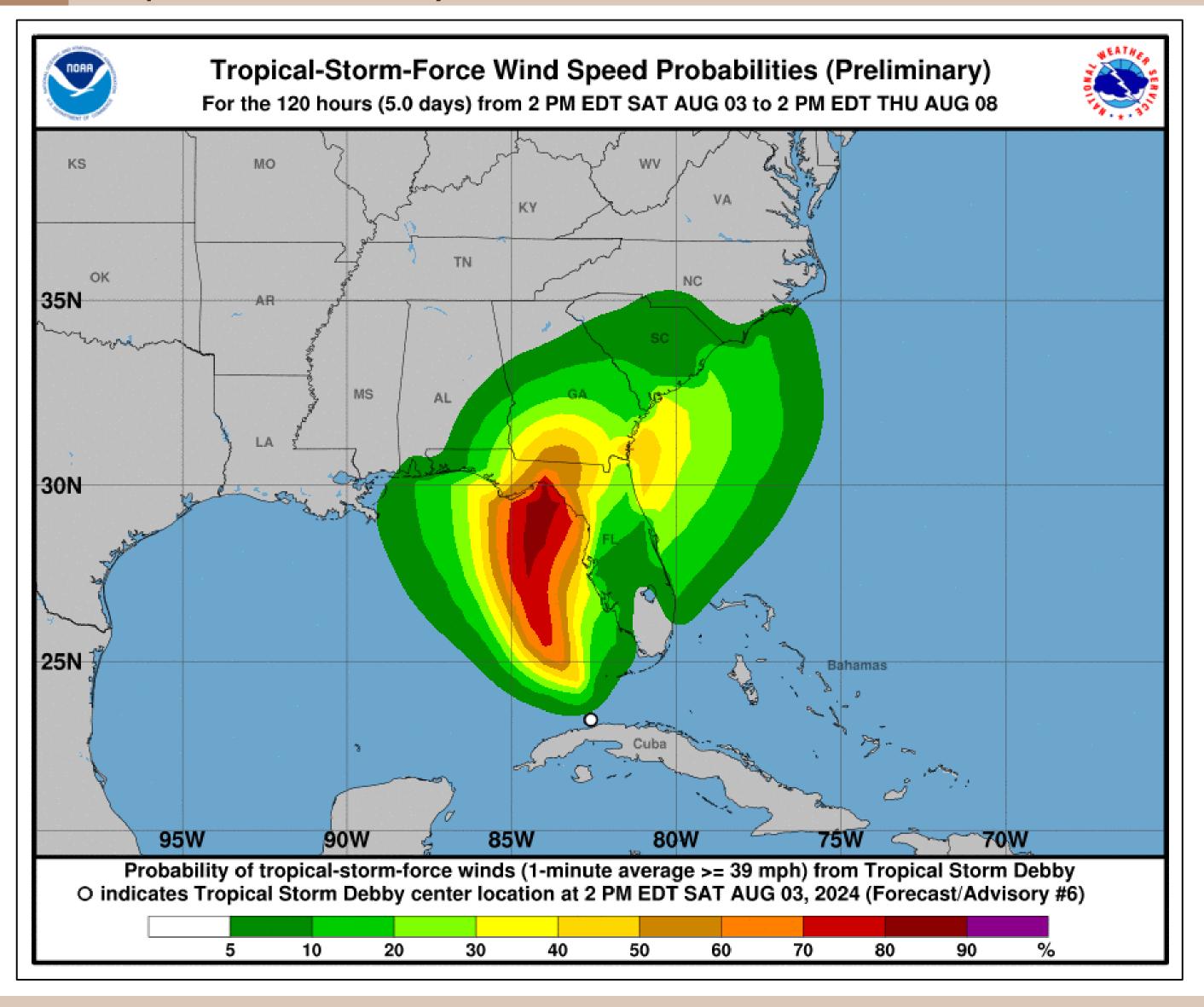


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T.S. Wind Speed Probabilities

Tropical Storm Debby



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KEY WEST 5%

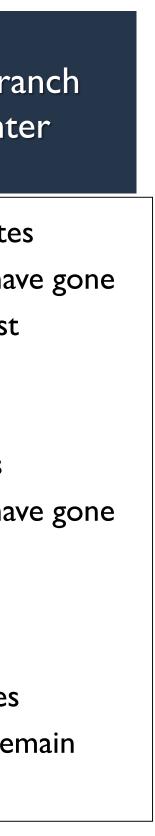
- FT LAUDERDALE 10%
- TAMPA 40%
- TALLAHASSEE 50%
- APALACHICOLA 65%
- PANAMA CITY 50%
- JACKSONVILLE 30%
- SAVANNAH 15%
- BEAUFORT 30%
- CHARLESTON 25%

-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.

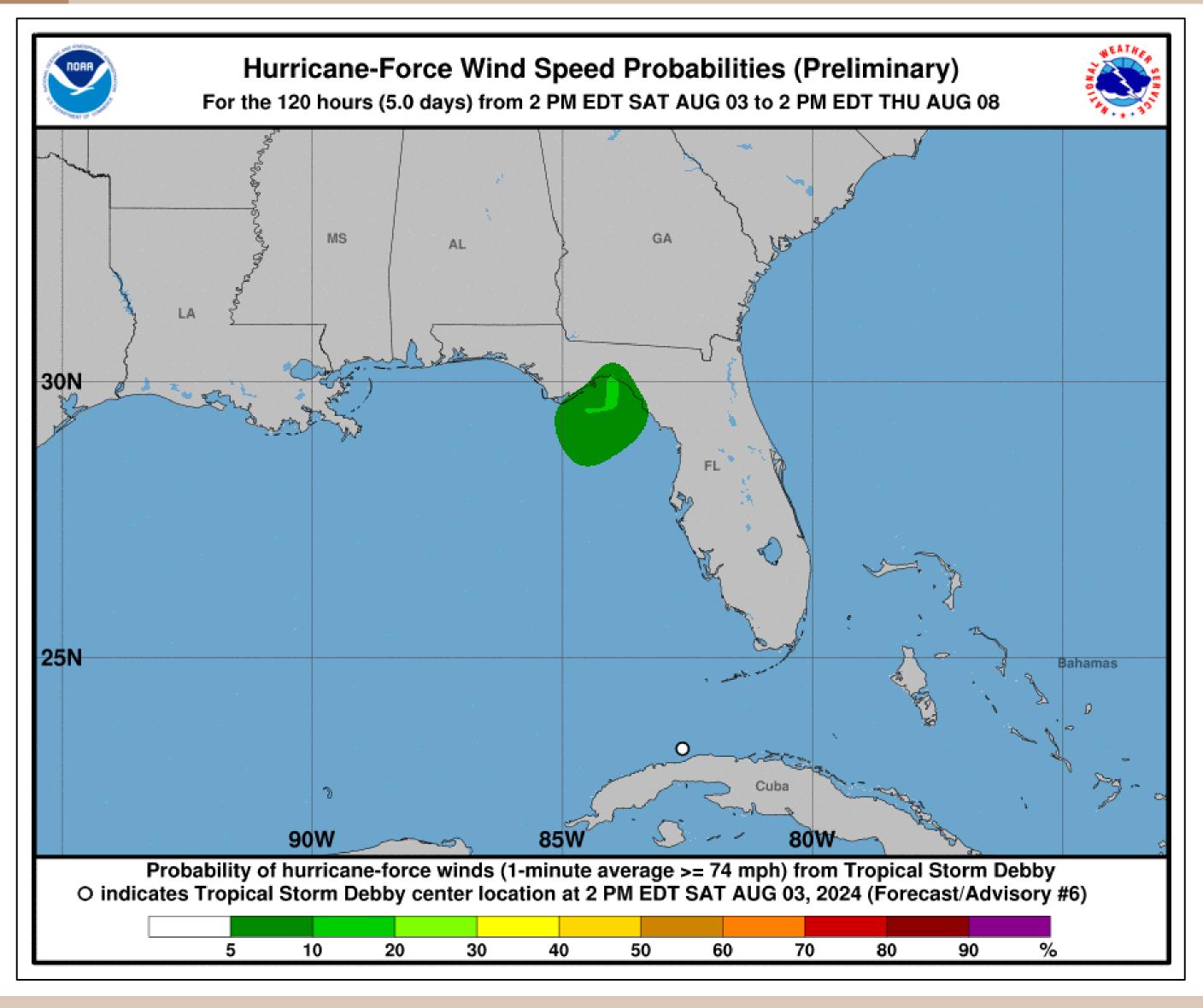






Hurricane Wind Speed Probabilities

Tropical Storm Debby



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APALACHICOLA 5% PANAMA CITY FL 5% CEDAR KEY FL 5%

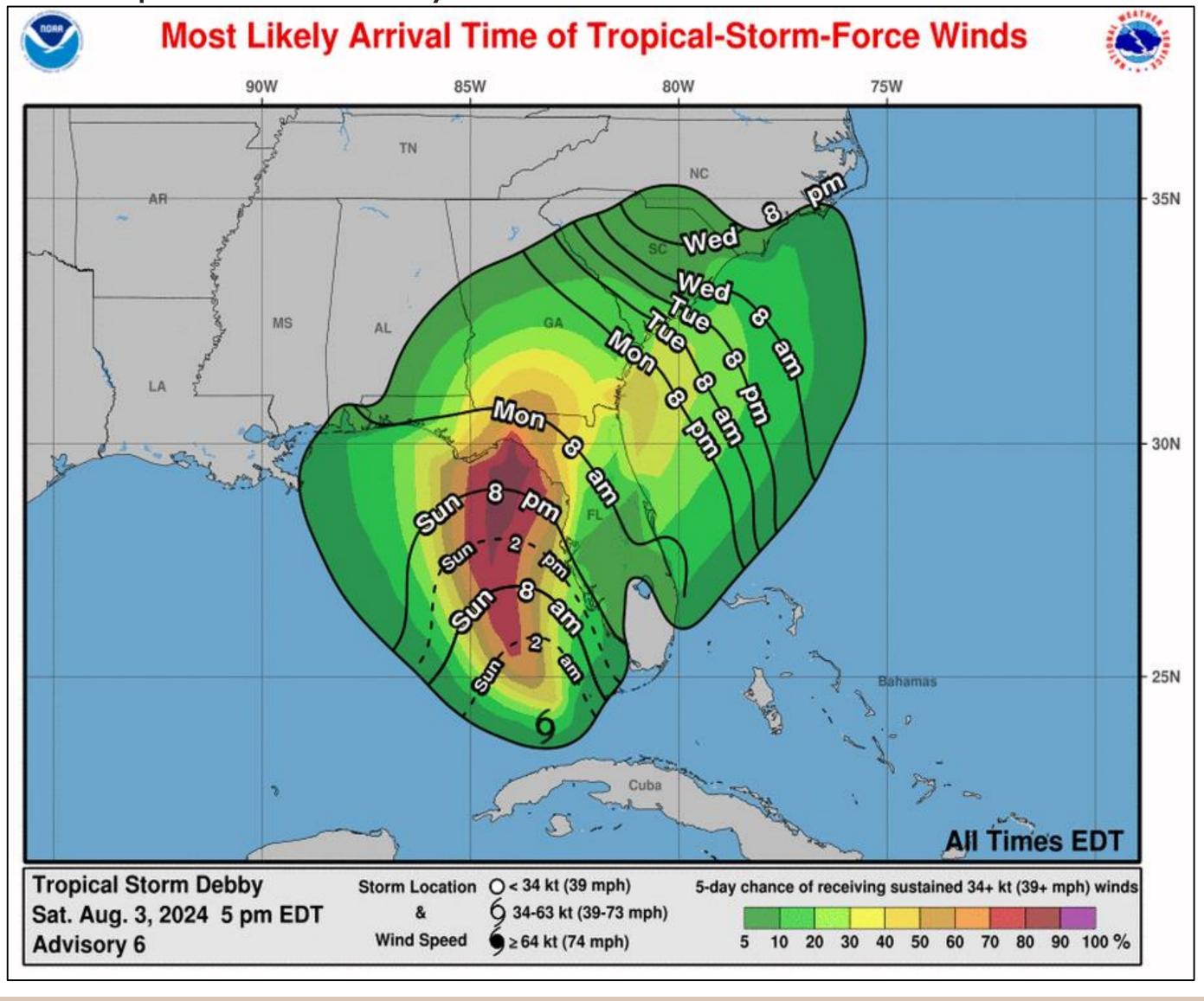
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below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





Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities

Tropical Storm Debby



8/3/2024 6:01 PM



- Southwest Florida: Tonight
- Tampa Bay: Sunday afternoon/evening
- Florida Big Bend: Sunday night
- Jacksonville: Monday
- Georgia/South Carolina: Monday afternoon/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.

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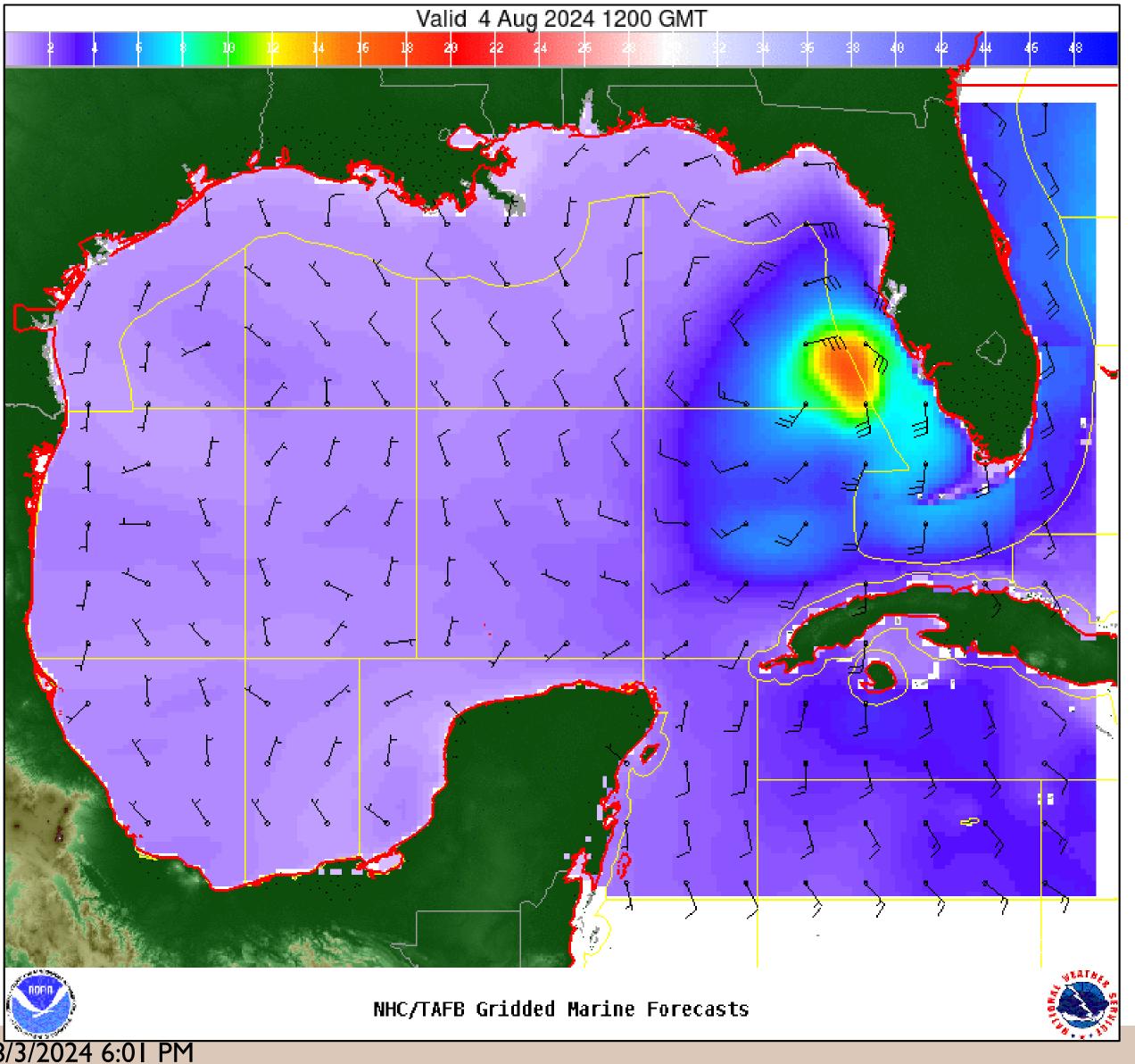








Tropical Storm Debby



8/3/2024 6:01 PM



24 Hour Forecast Sunday, August 4th at 8am EDT Peak Winds: 40 kt Peak Seas: 16 ft

Wave heights are in feet

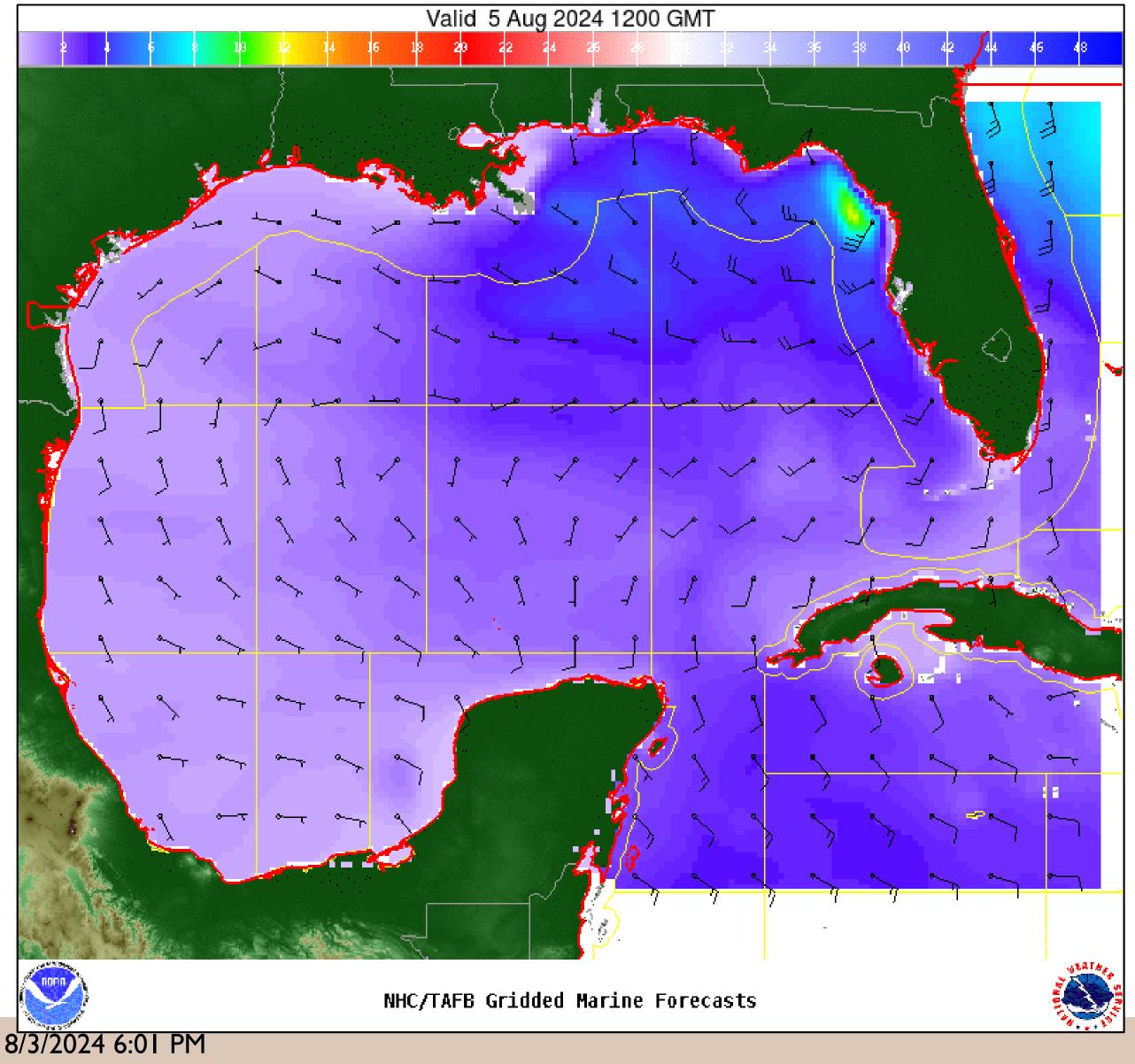
2 4 6 8 10 12 14 16







Tropical Storm Debby







48 Hour Forecast Monday, August 5th at 8am EDT Peak Winds: 55 kt Peak Seas: 17 ft

Wave heights are in feet

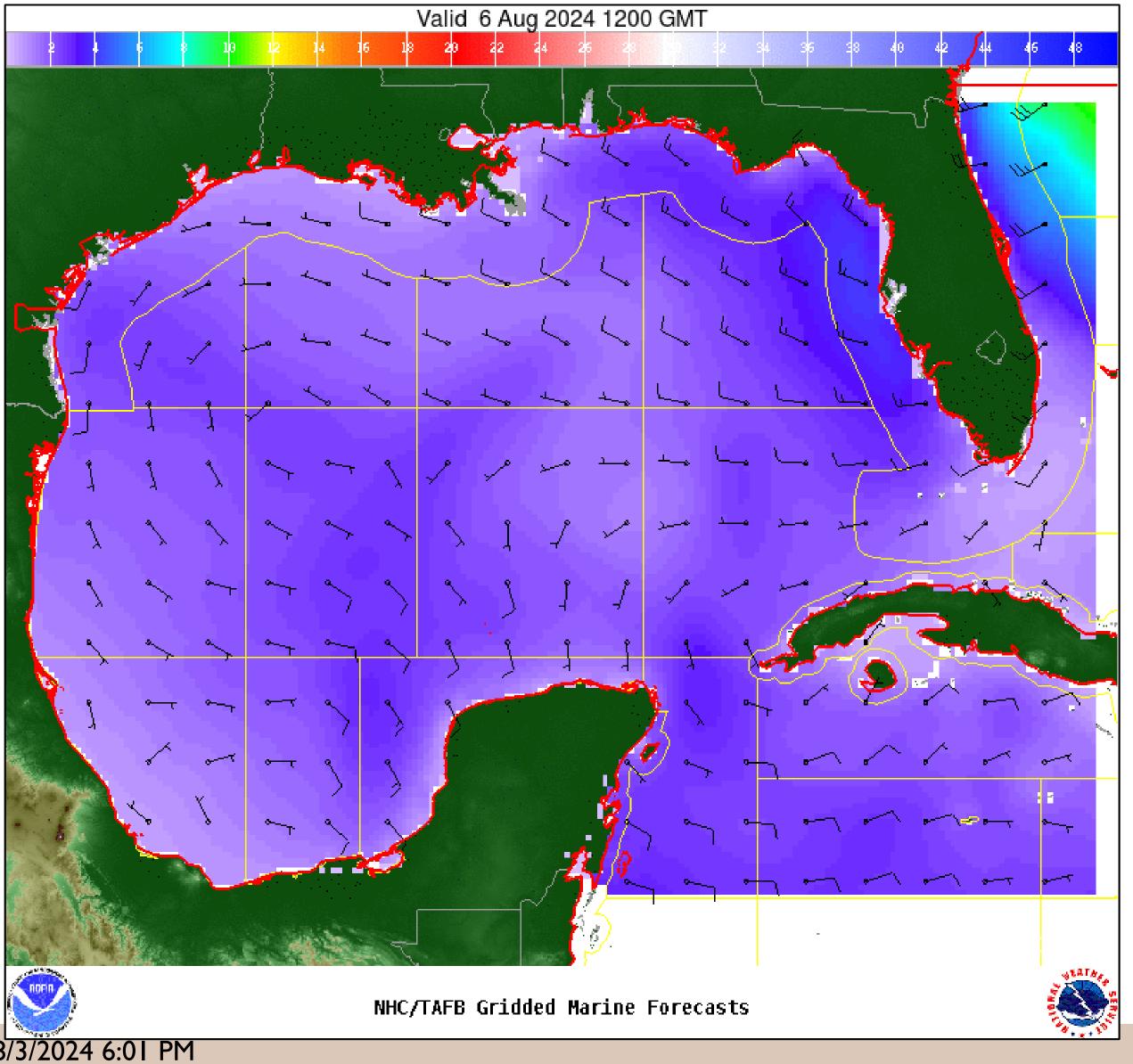
2 4 6 8 10 12 14 16 18







Tropical Storm Debby







72 Hour Forecast

Tuesday, August 6th at 8am EDT Peak Winds: 25 kt

Peak Seas: 6 ft

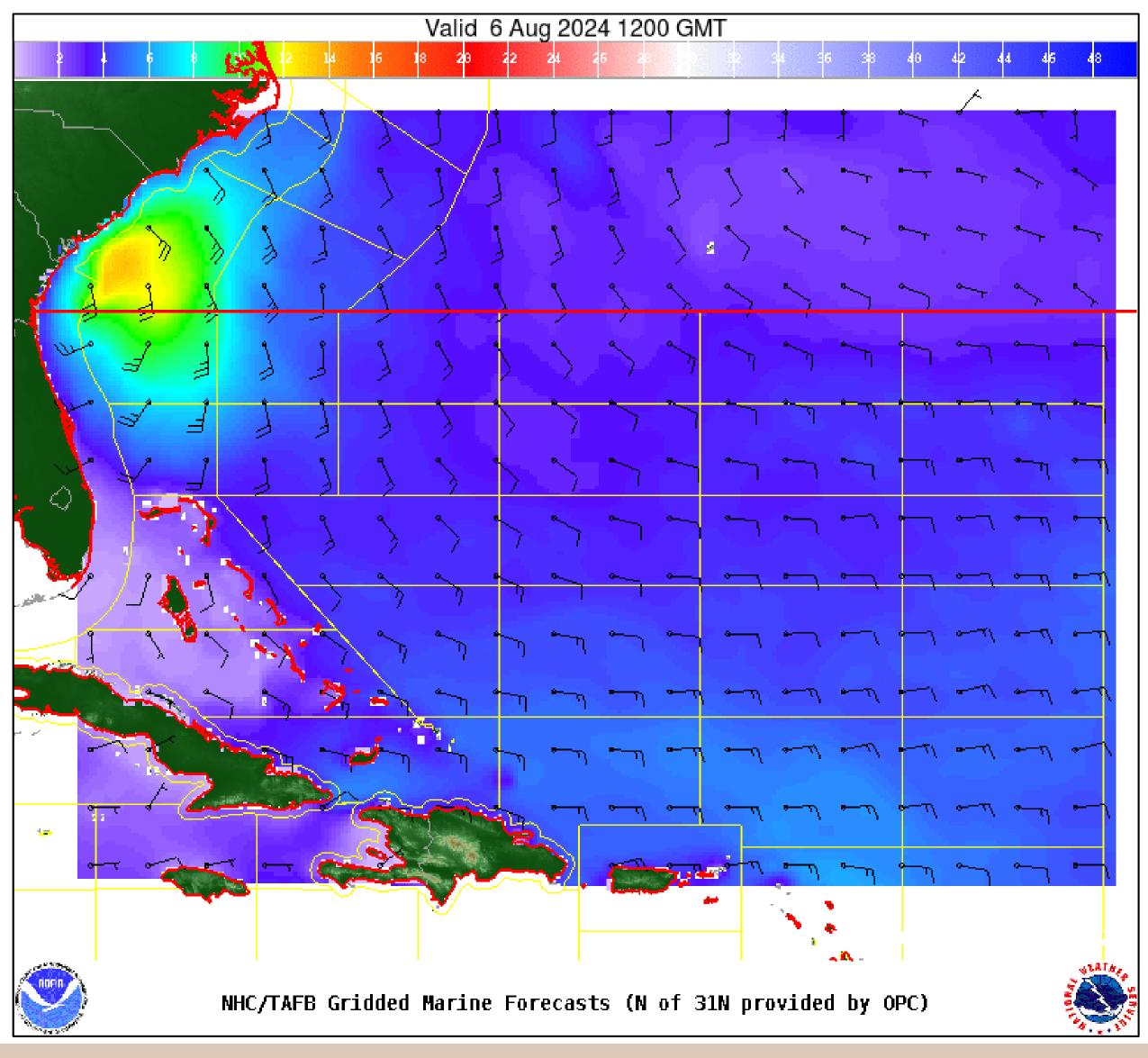
Wave heights are in feet

2	4	6	8	10	12	14	16	18
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72 Hour Forecast

Tuesday, August 6th at 8am EDT

Peak Winds: 30 kt

Peak Seas: 13 ft

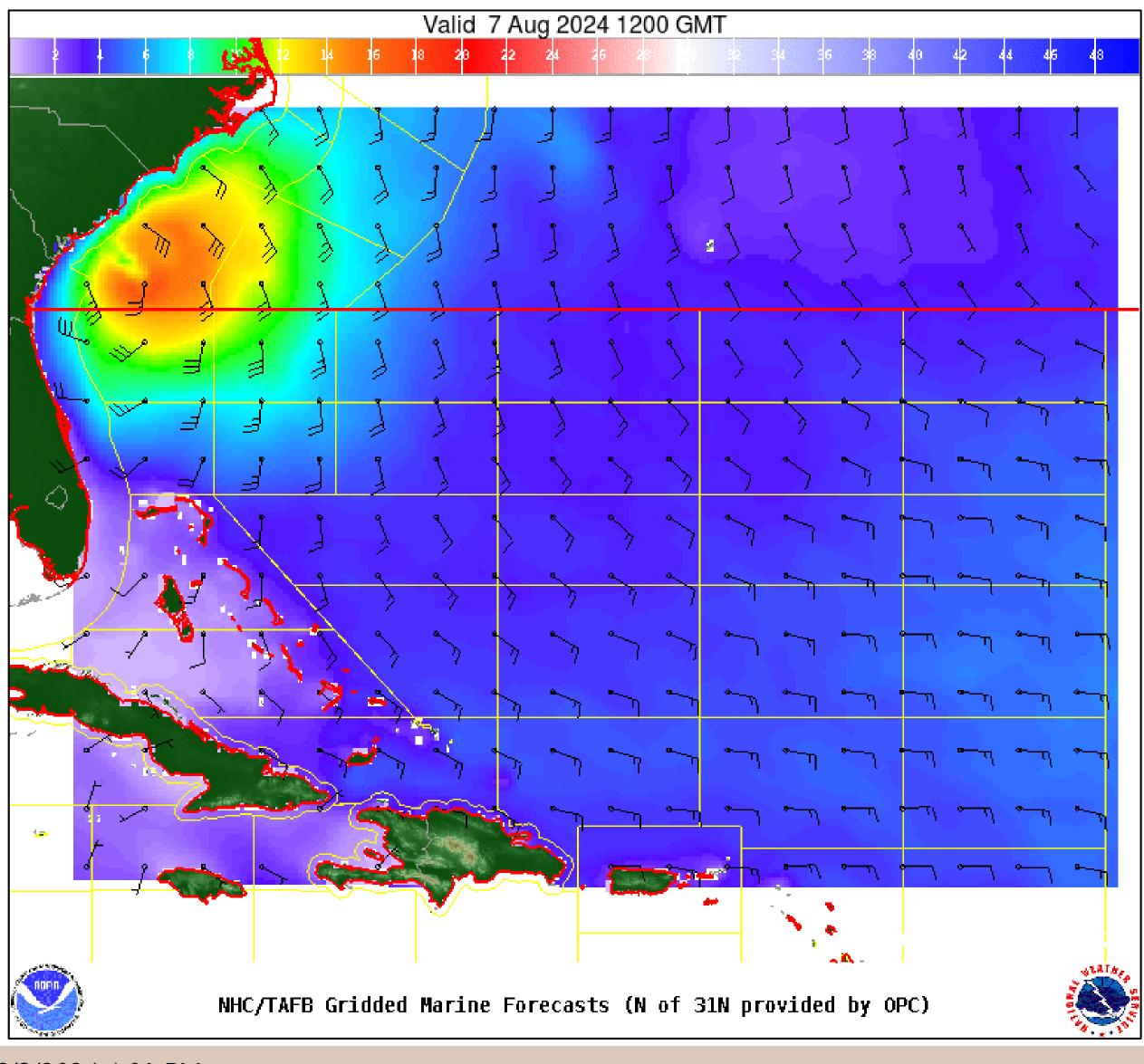
Wave heights are in feet

2 4 6 8 10 12 14 16	18
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96 Hour Forecast Wednesday, August 7th at 8am EDT Peak Winds: 40 kt Peak Seas: 15 ft

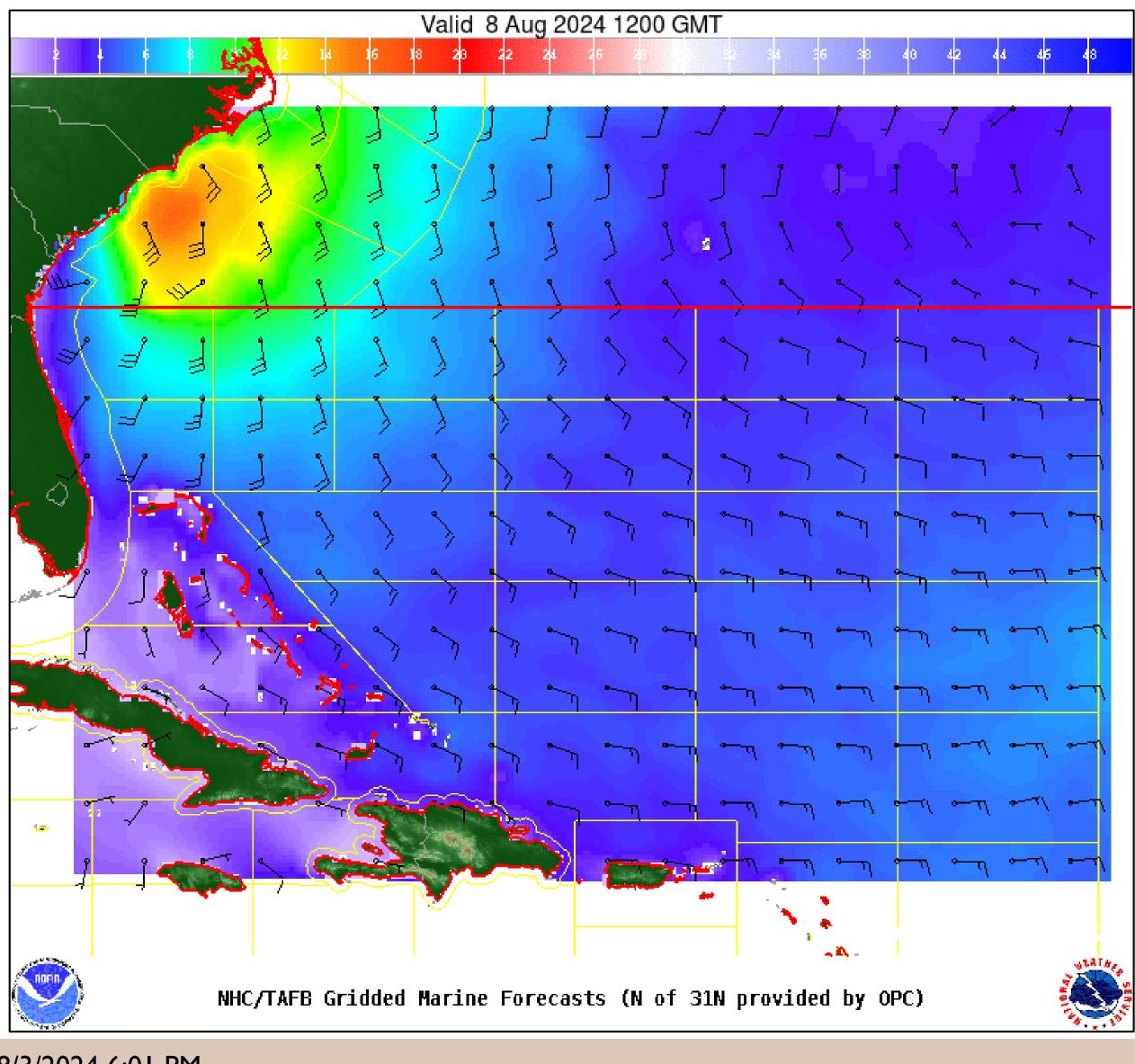
Wave heights are in feet

2 4 6	8	10	12	14	16	18
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120 Hour Forecast Thursday, August 8th at 8am EDT Peak Winds: 40 kt Peak Seas: 18 ft

Wave heights are in feet

2 4 6 8 10 12 14 16

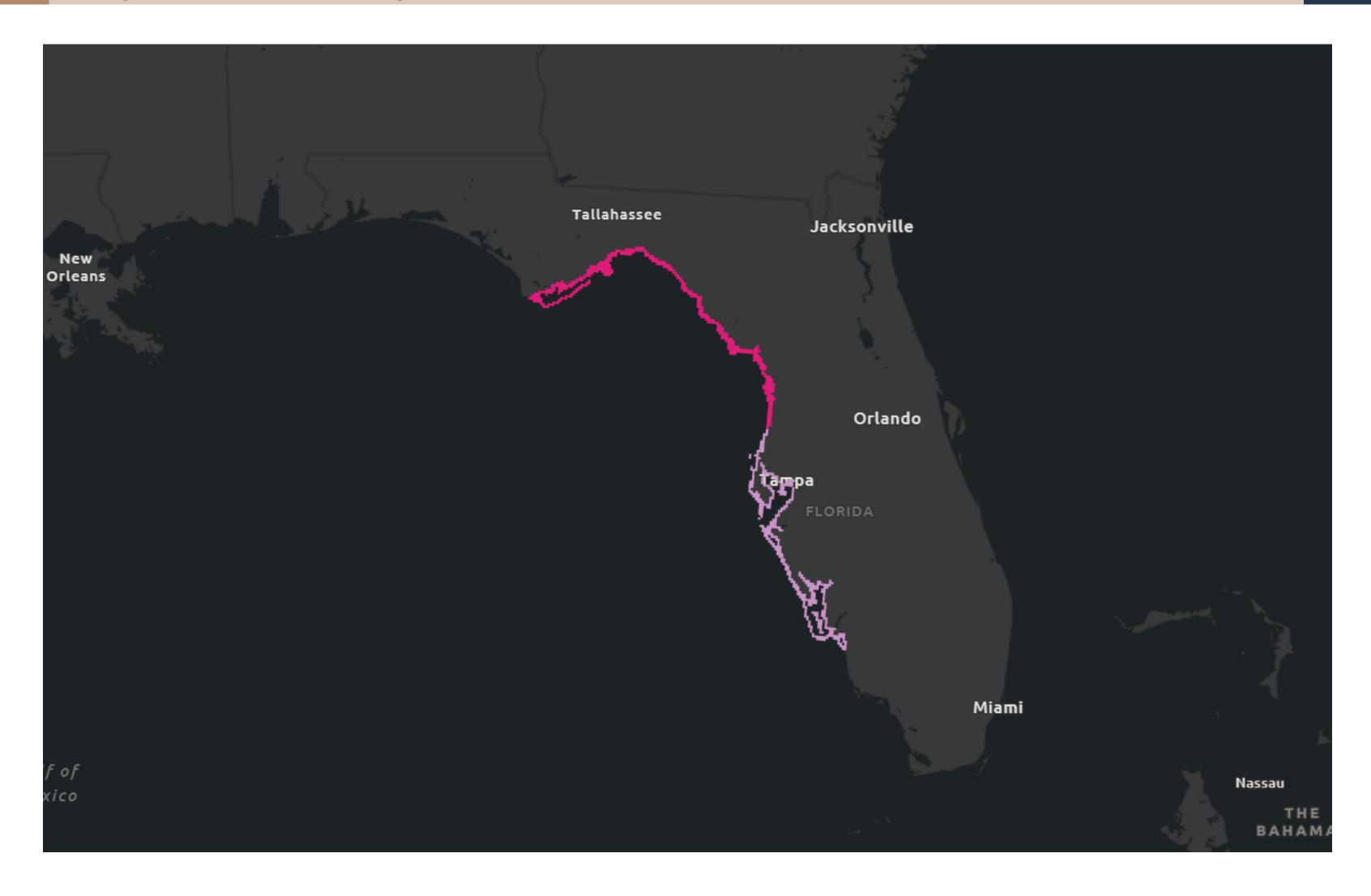






Potential Storm Surge

Tropical Storm Debby



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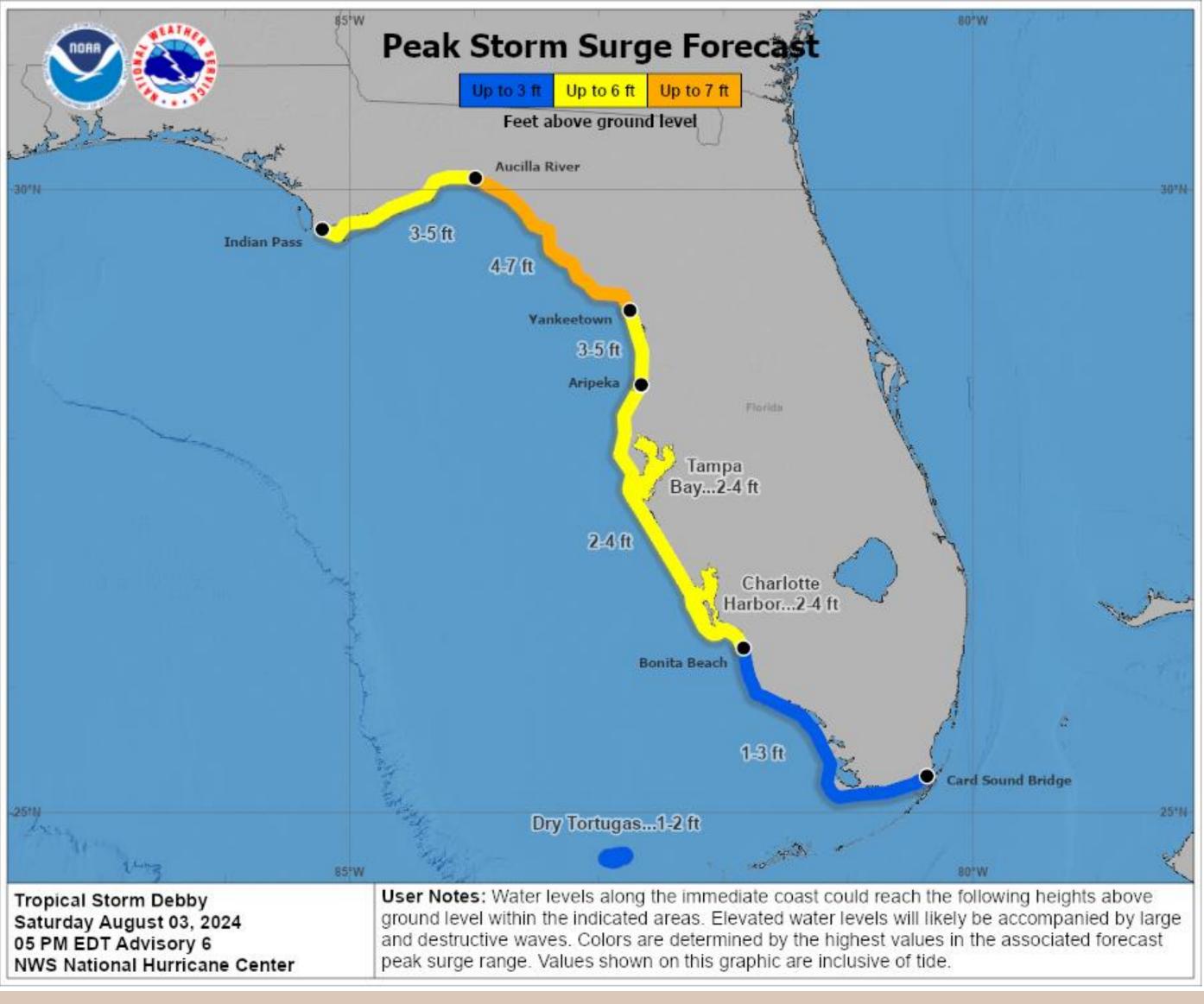
There is an upgrade to a Storm Surge <u>Warning</u> in effect for....

* Aucilla River westward to Indian Pass



Potential Peak Storm Surge / Watches and Warnings

Tropical Storm Debby



8/3/2024 6:01 PM



There is an upgrade in peak values with 4-7 feet of storm surge inundation forecasted from Yankeetown northward to Aucilla River

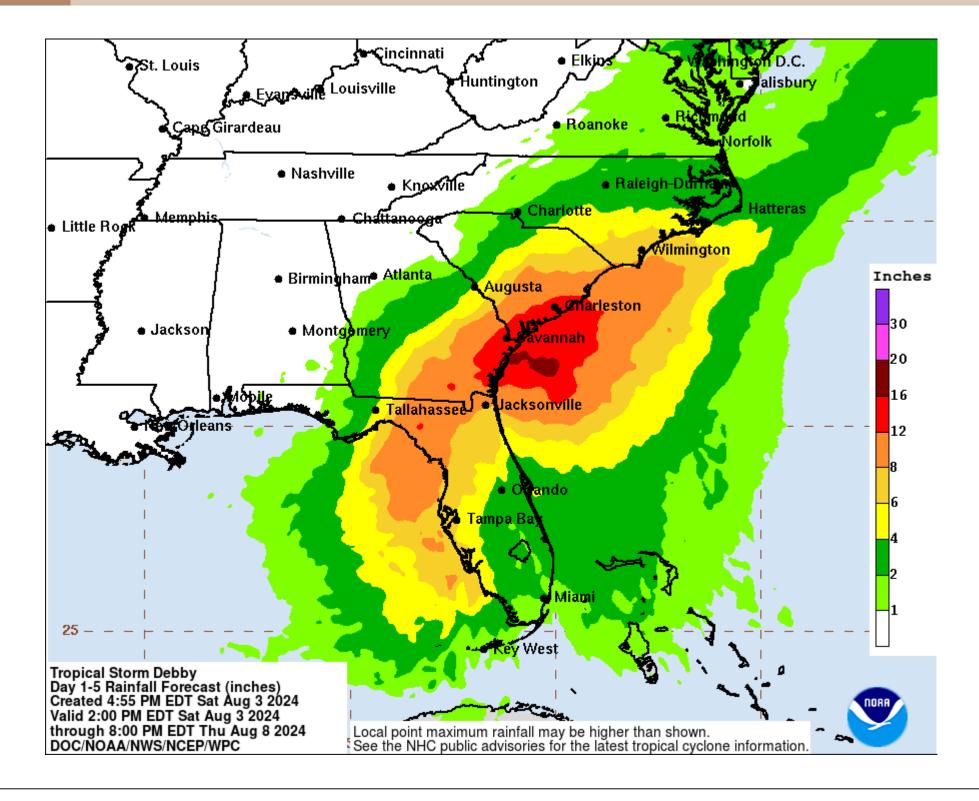




Expected Storm Total Rainfall and Chance of Rainfall Flooding

Tropical Storm Debby

Images from NWS Weather Prediction Center

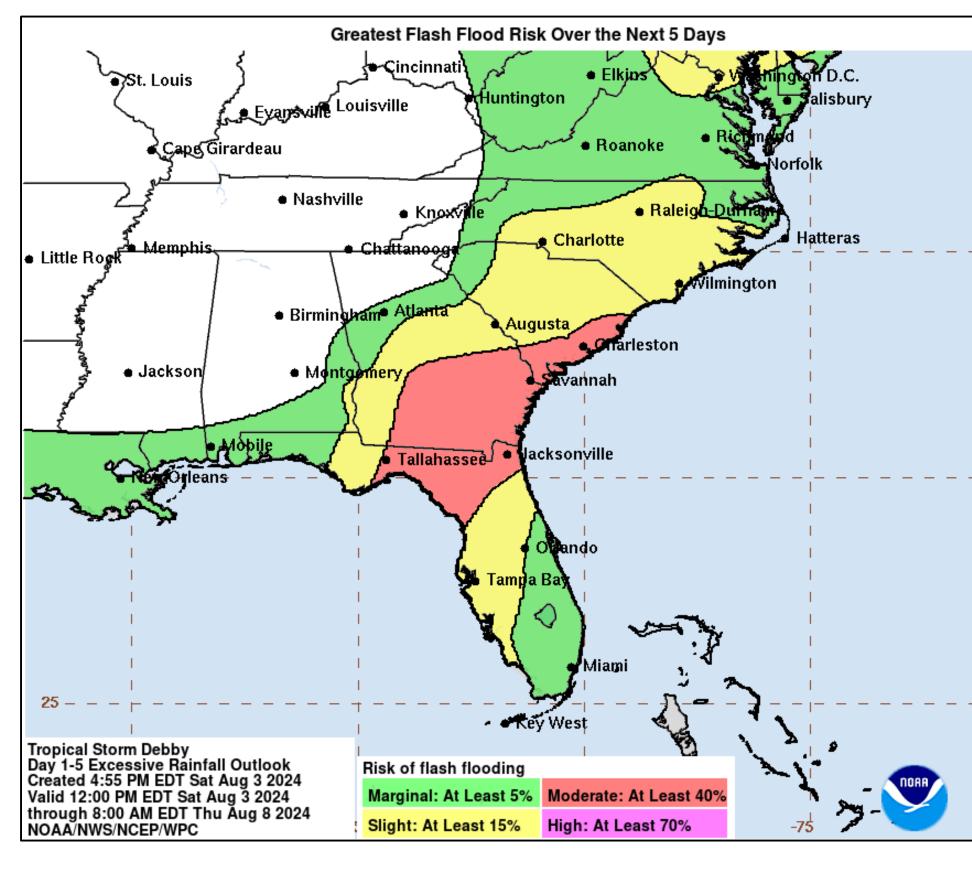


- TS Debby is expected to produce 6-12 inches of rain, with maximum totals up to 18 inches, across portions of Florida and along the southeastern US coast
- This will occur tonight (Sat night) through Thursday
- Considerable flash and urban flooding is expected along with significant lacksquareriver flooding

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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

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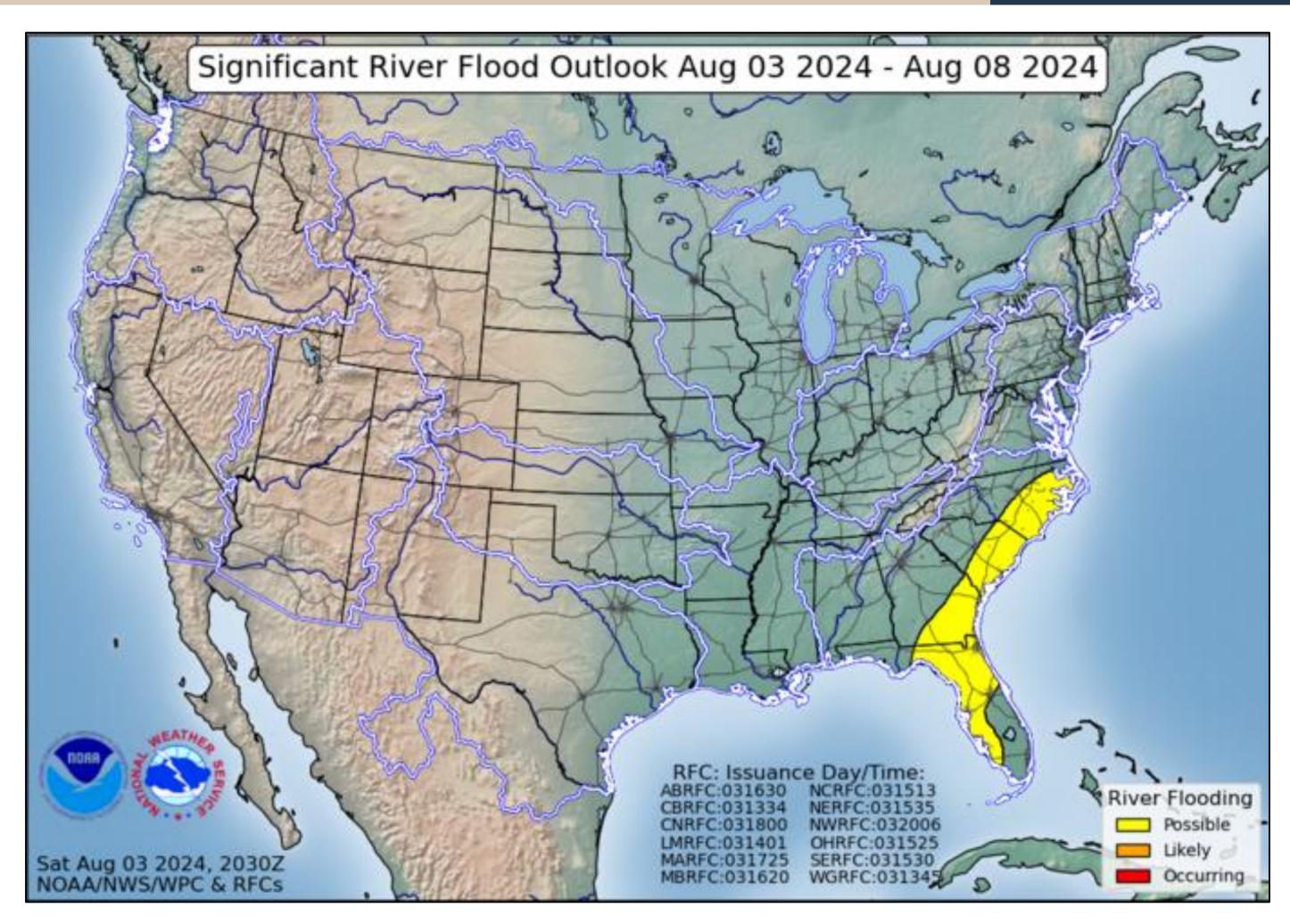






Flood Outlook

Tropical Storm Debby



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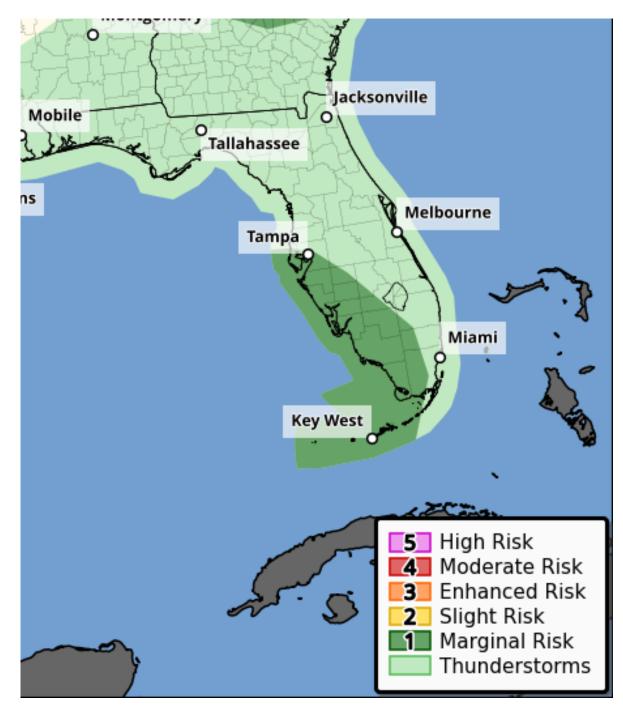


Tornado Outlook – Days I and 2

Tropical Storm Debby

Image from NWS Storm Prediction Center

Day I - Saturday

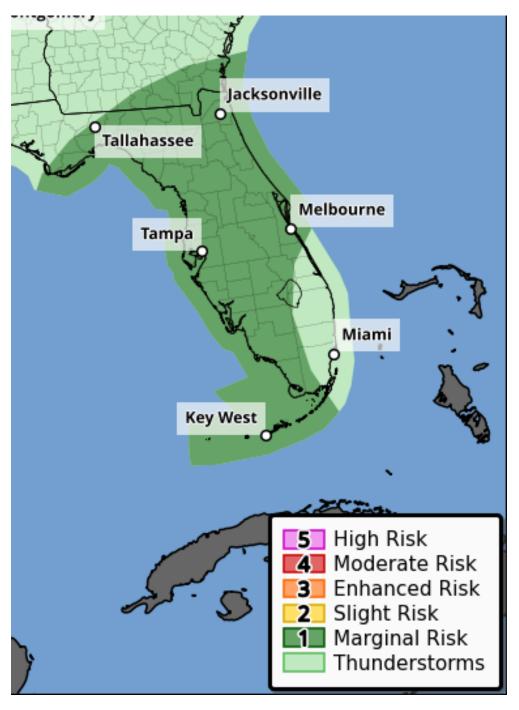


- A marginal risk of tornadoes is expected across the Florida Keys, southwest and central \bullet Florida tonight into Sun morning
- The area of risk increases across central and northern Florida by Sunday into Monday \bullet morning

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Day 2 - Sunday





Key Messages – District 7

Tropical Storm Debby



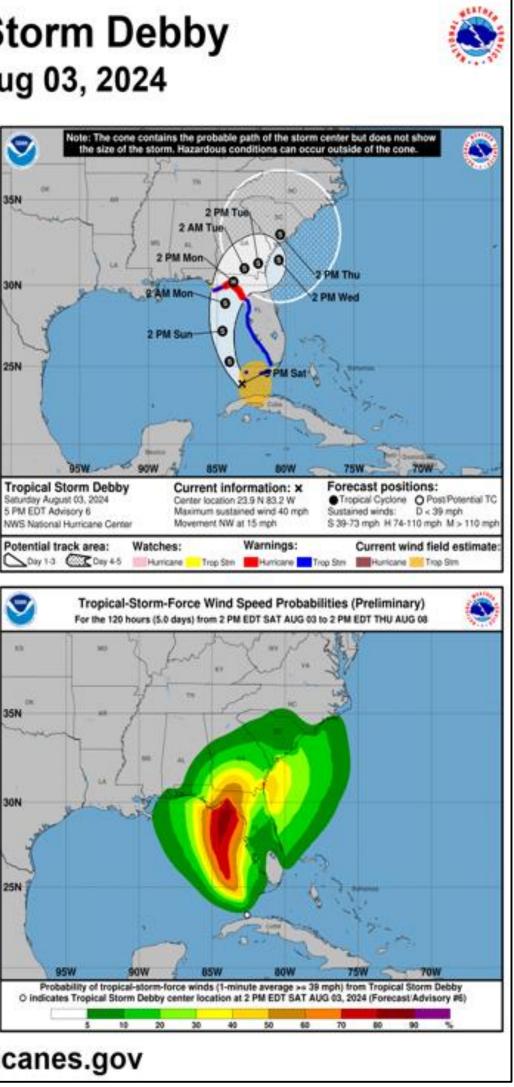
Key Messages for Tropical Storm Debby Advisory 6: 5:00 PM EDT Sat Aug 03, 2024

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

2. Hurricane conditions are expected on Monday along portions of the Florida Big Bend region where a Hurricane Warning is in effect, with tropical storm conditions beginning late Sunday. Tropical storm conditions are expected through Monday farther south within the Tropical Storm Warning along Florida's west coast, including the Tampa Bay area and the Lower Florida Keys.

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

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 tonight or on Sunday.



For more information go to hurricanes.gov



Marine Key Messages for District 7

- Seas are expected to build above 12 ft tonight in the southeast Gulf
- Seas will peak near 20 ft off the Florida Big Bend Sunday night into early Monday morning
- Rough to very seas will impact the NE ${\color{black}\bullet}$ Florida Coast and the Carolinas Tue through Thu as Debby meanders off the Georgia/South Carolina coast











Key Messages – District 8

Tropical Storm Debby



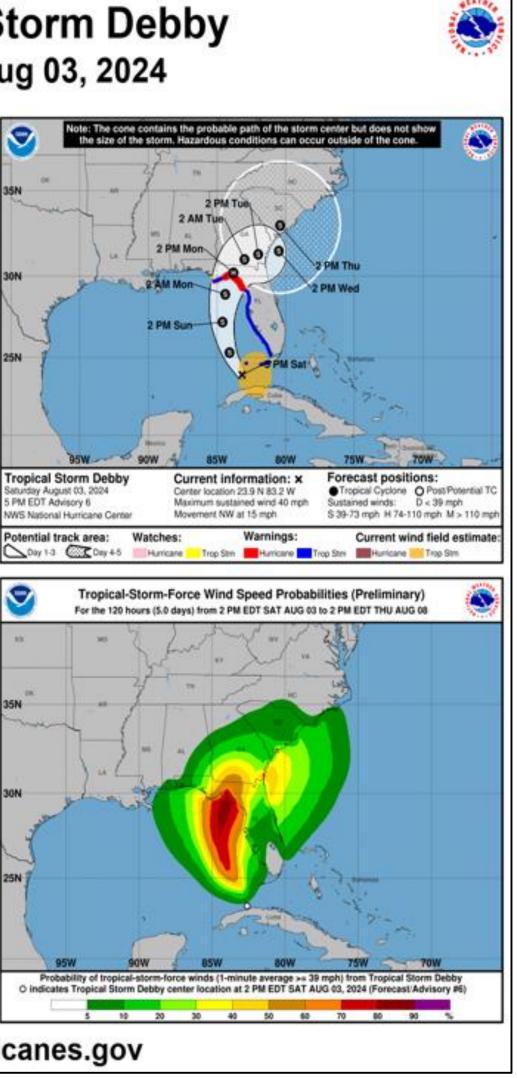
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Marine Key Messages for District 8

- Seas are expected to build above 12 ft \bullet tonight in the southeast Gulf
- Seas will peak near 20 ft off the Florida Big Bend Sunday night into early Monday morning
- Conditions will improve across the Gulf by Mon afternoon









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



TIME of NEXT NHC Advisory: 3 UTC: II PM EDT / I0 PM CDT

NHC_TAFB



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

TROPICAL STORM DEBBY BRIEFING

The Next Briefing for District 7 Will Be: Sunday 9:00 AM EDT

The Next Briefing for District 8 Will Be: Sunday 11:00 AM CDT

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







