IMPACTS FOR D8 (through next 5 days)

Winds – Medium

Storm Surge – Low

Rainfall/Flash Flooding - Medium

Tornadoes – Low

Waves - High

TROPICAL STORM DEBBY BRIEFING



II:00 AM CDT

Sunday, August 4, 2024 Prepared by:

Amanda Reinhart

Tropical Analysis and Forecast Branch NWS National Hurricane Center



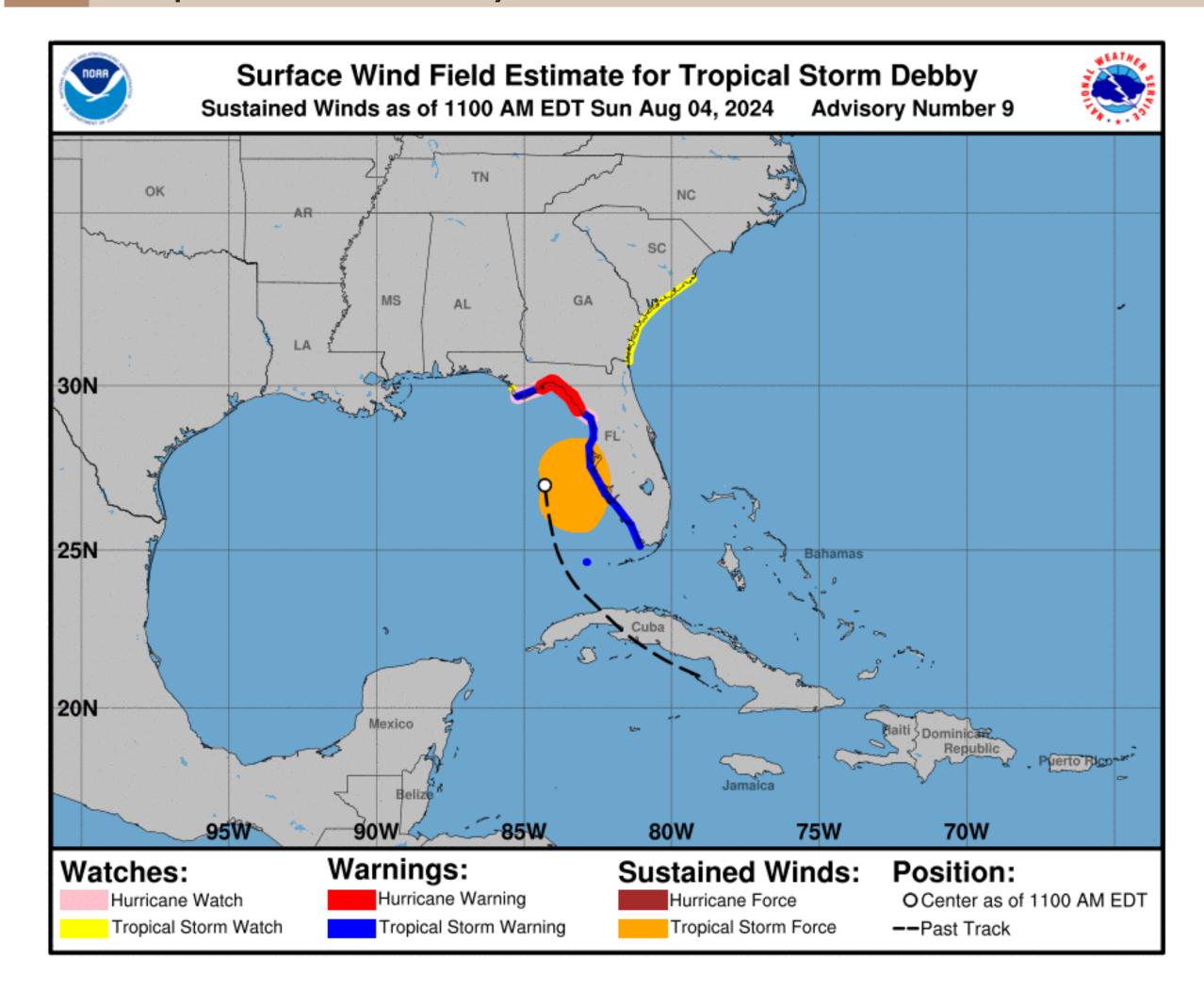


A Tropical Storm Watch has been issued as far west as Mexico Beach, FL

 Confidence is high Debby will make landfall in the Florida Big Bend on Monday

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Debby



...DEBBY LIKELY TO STRENGTHEN RAPIDLY BEFORE LANDFALL IN THE FLORIDA BIG BEND REGION...

...MAJOR FLOOD THREAT LOOMS OVER THE SOUTHEASTERN UNITED STATES...

Summary of 1100 AM EDT Information

Location...27.0N 84.3W
About 115 nm WSW of Tampa Florida
About 140 nm SSW of Cedar Key Florida
Maximum Sustained Winds...55 kt
Present Movement...NNW at 11 kt

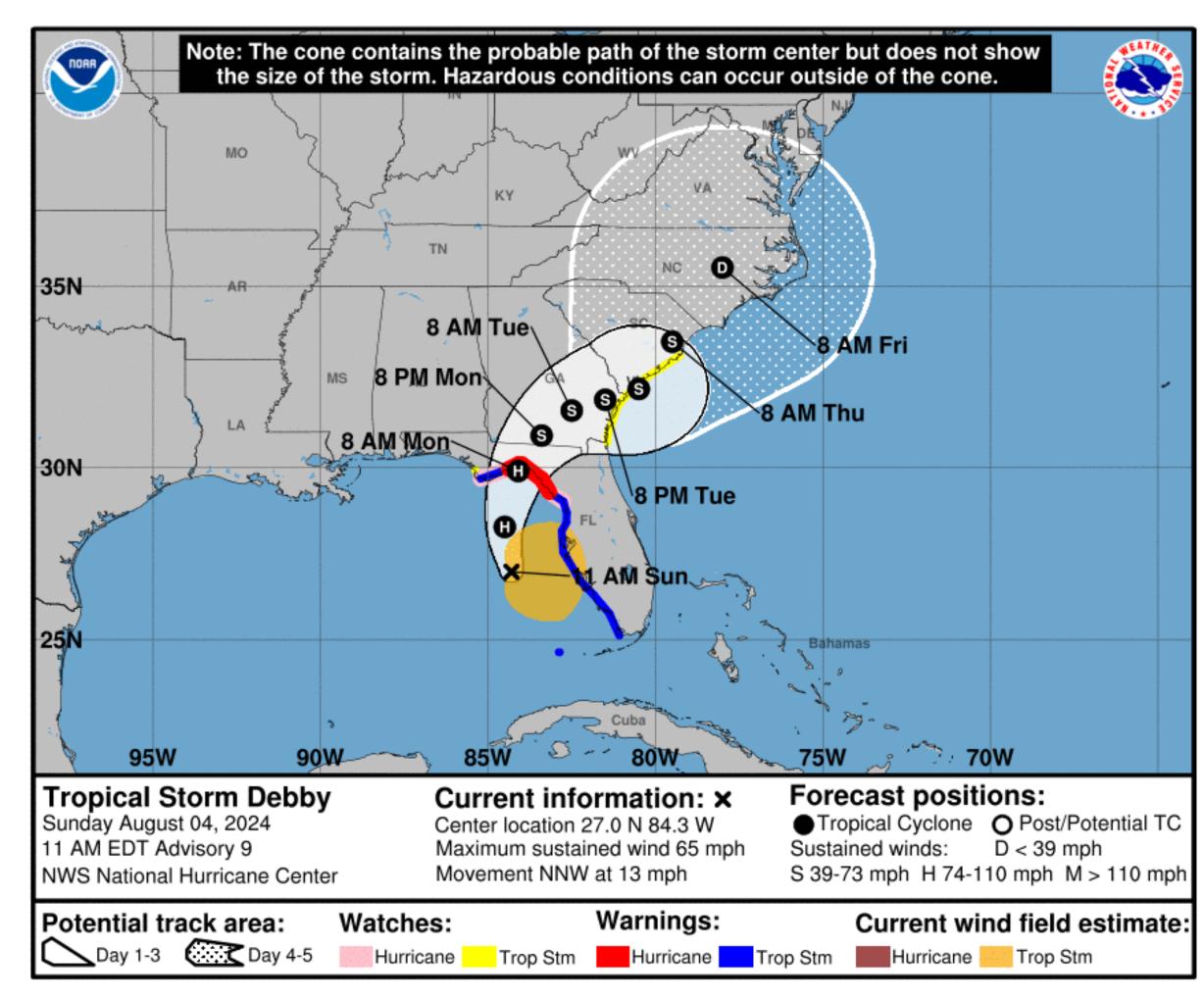
Peak Seas...18 ft

12 ft seas...120NE 120SE 0SW 0NW

Forecast Information

Tropical Storm Debby





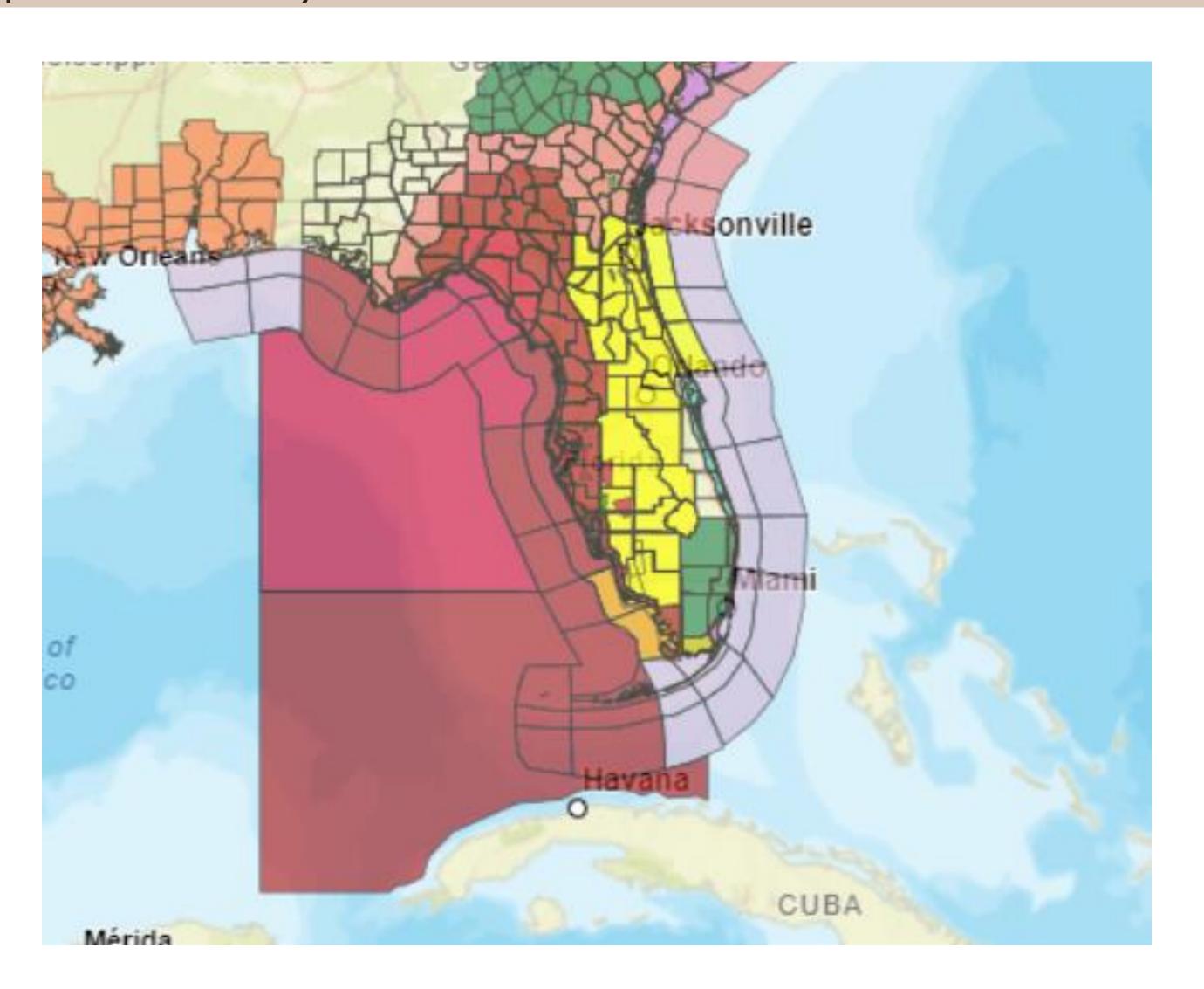
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

- Tropical Storm Debby continues to move northnorthwest across the southeast Gulf of Mexico while slowly strengthening
- High confidence that Debby will gradually turn north then northeast towards the Florida Big Bend today into tonight and make landfall on Monday
- On the forecast track, Debby will continue to strengthen and likely make landfall as a hurricane
- 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.

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Tropical Storm Debby





T.S. Wind Speed Probabilities

Tropical Storm Debby





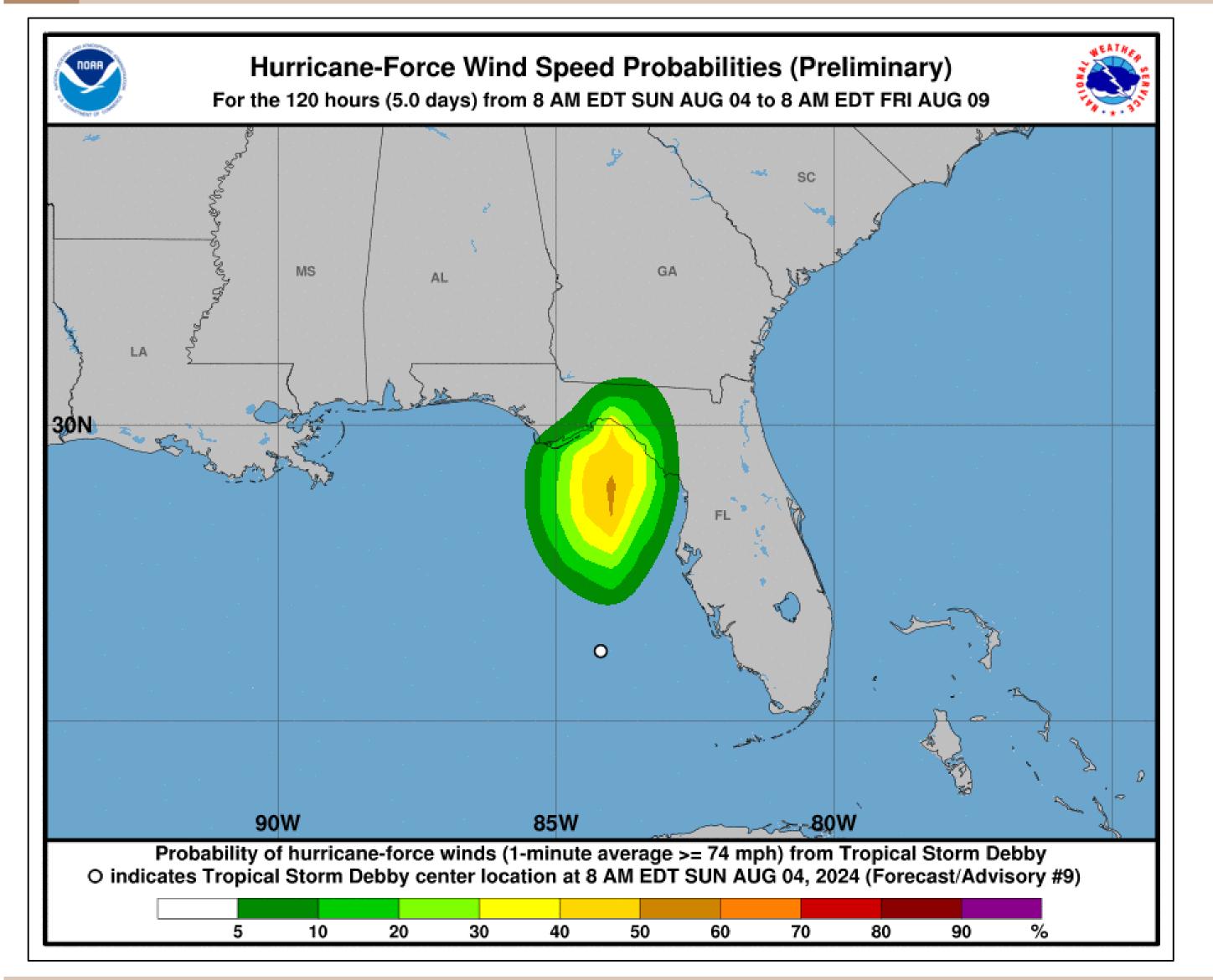
- TALLAHASSEE 75%
- CEDAR KEY FL 95%
- APALACHICOLA 80%
- PANAMA CITY 50%
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Hurricane Wind Speed Probabilities

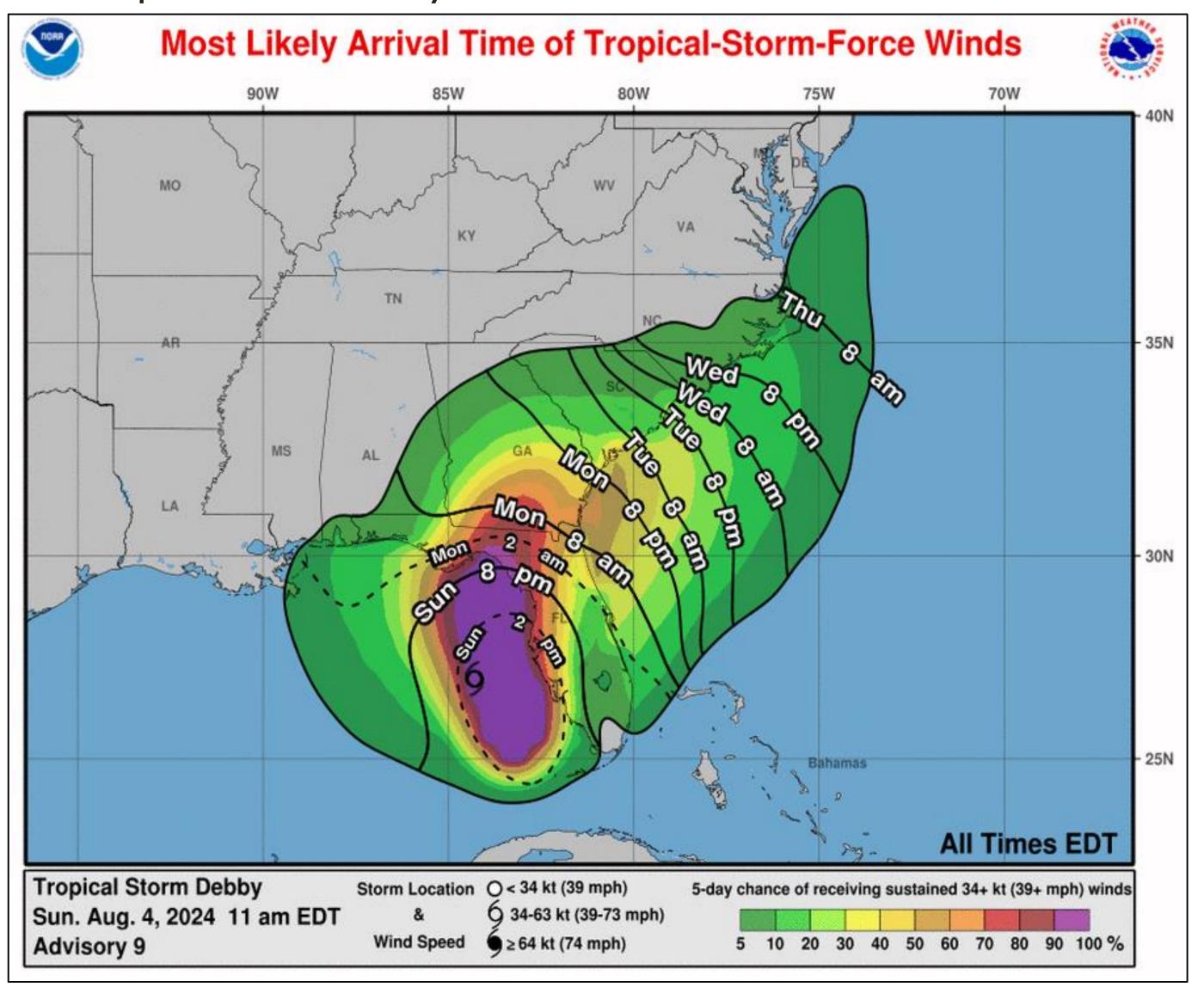
Tropical Storm Debby



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- TALLAHASSEE 5%
- CEDAR KEY FL 15%
- APALACHICOLA 15%
- PANAMA 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%.
- 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.

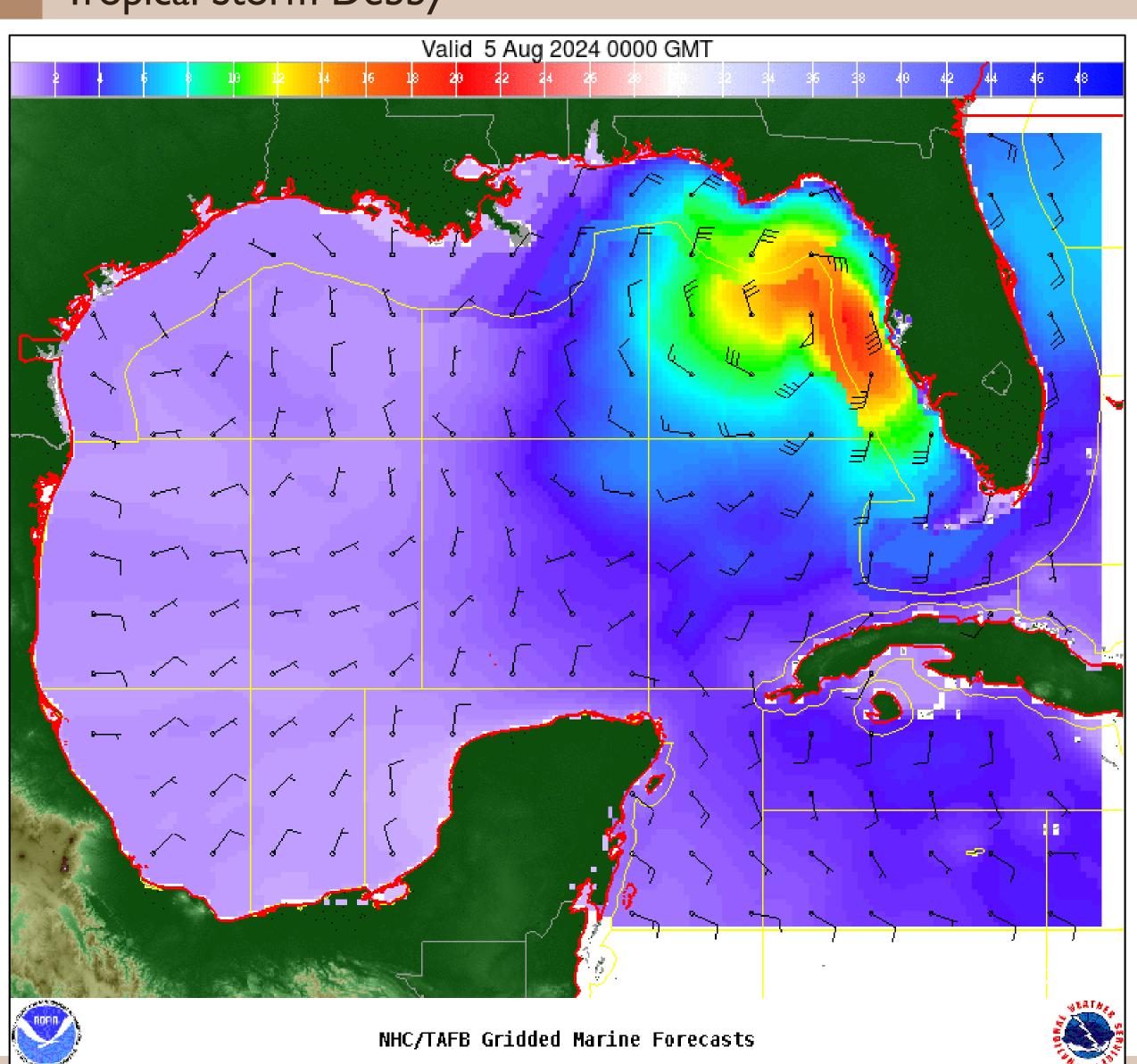


- Southwest Florida: Ongoing
- Tampa Bay: Later this morning
- Florida Big Bend: Tonight
- Panama City: Late Tonight
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances 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

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Tropical Storm Debby



12 Hour Forecast

Sunday, August 4th at 7pm CDT

Peak Winds: 65 kt

Peak Seas: 20 ft

Wave heights are in feet

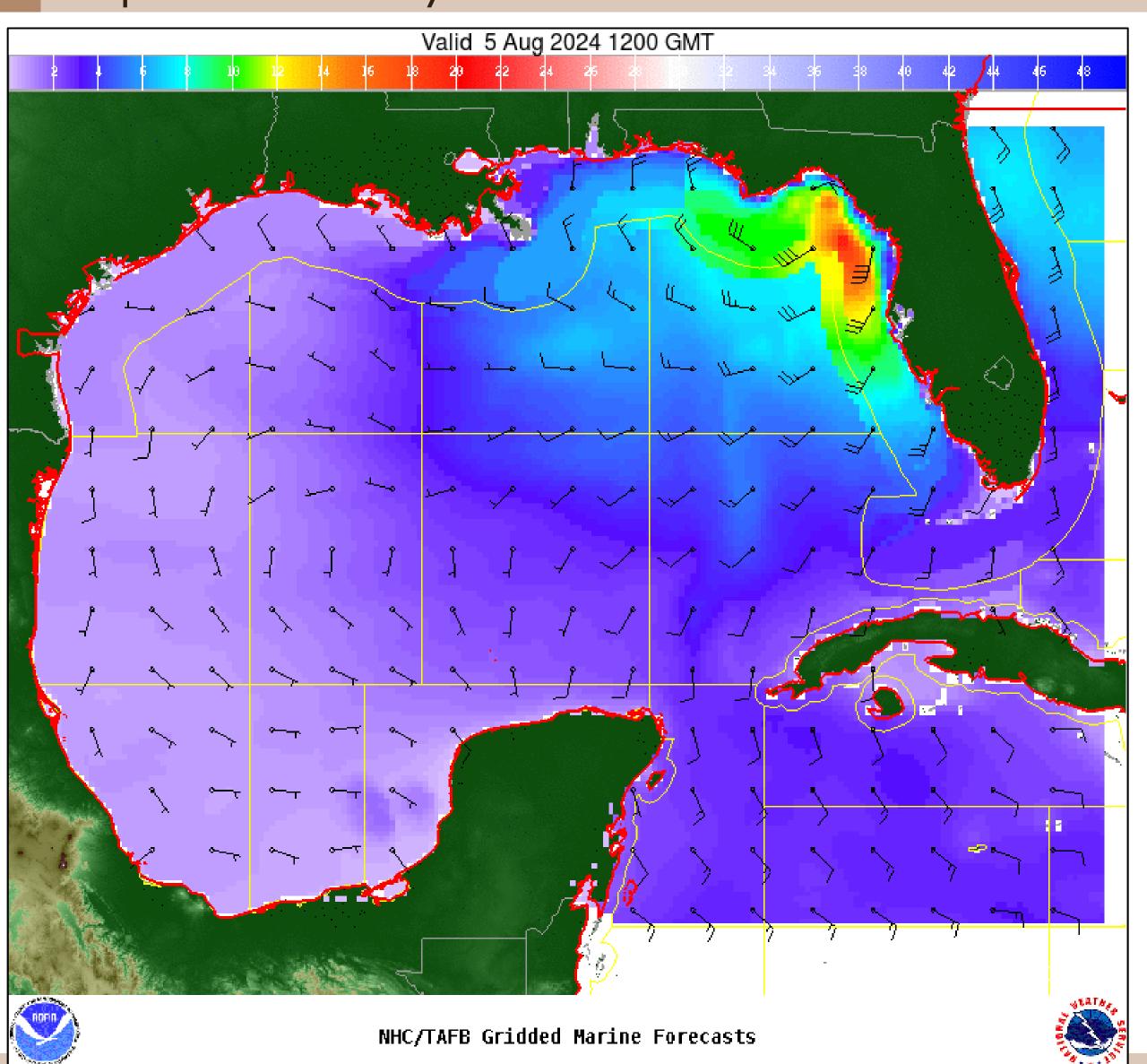


Significant Wave Height (ft)

Wind And Waves

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Tropical Storm Debby



24 Hour Forecast

Monday, August 5th at 7am CDT

Peak Winds: 80 kt

Peak Seas: 20 ft

Wave heights are in feet

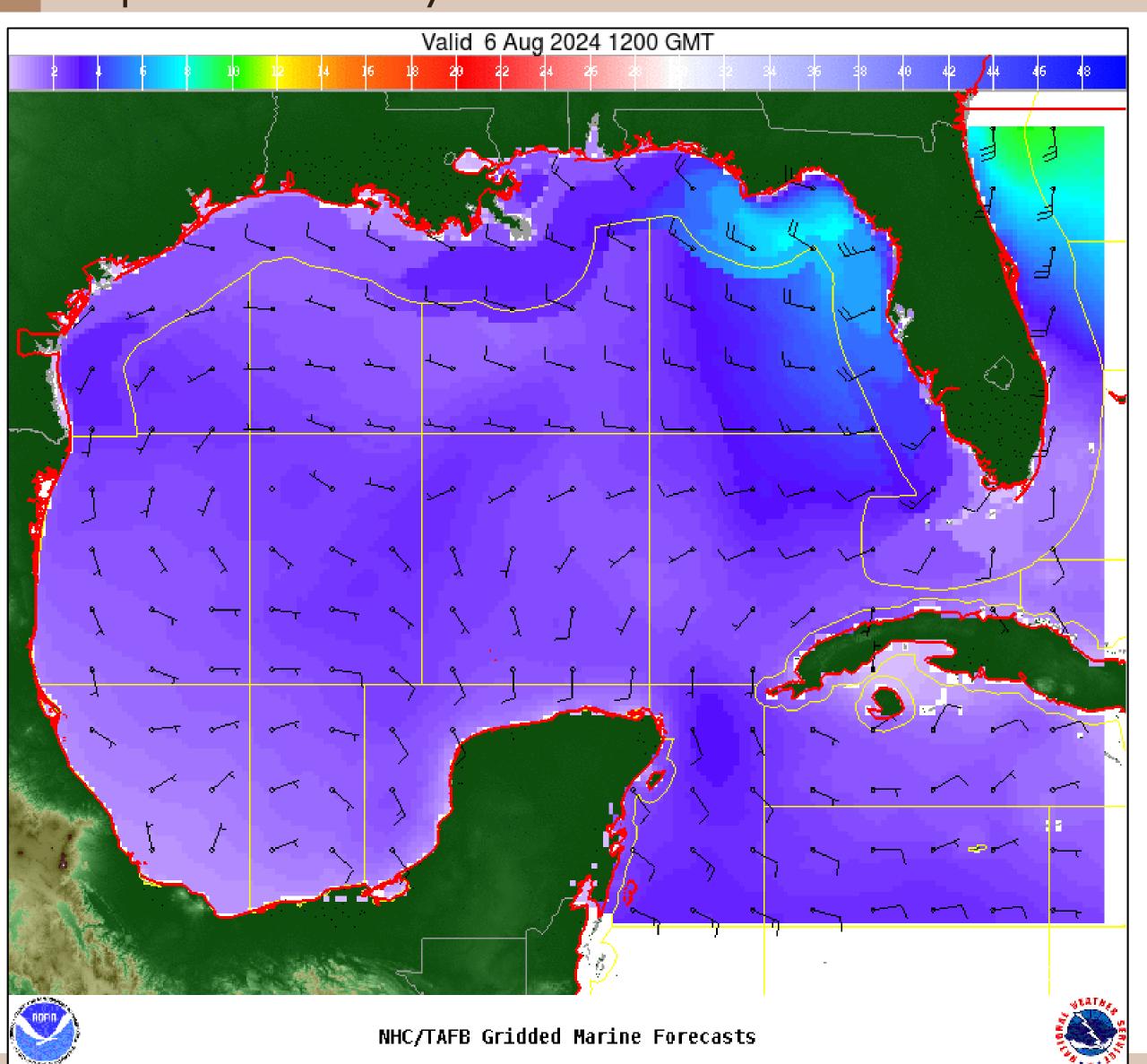


Significant Wave Height (ft)

Wind And Waves

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Debby



48 Hour Forecast

Monday, August 6th at 7am CDT

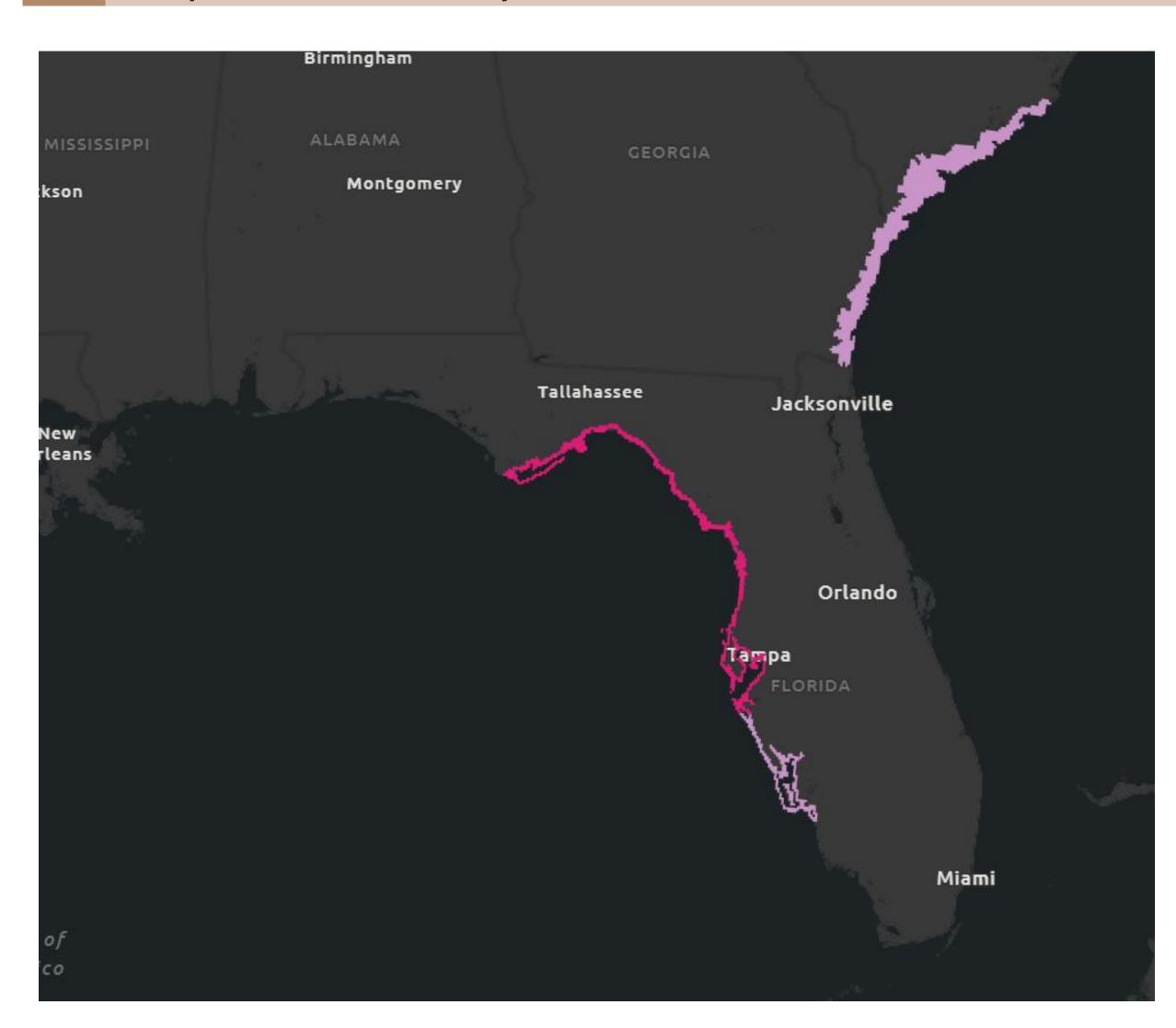
Peak Winds: 25 kt

Peak Seas: 7 ft

Wave heights are in feet



Significant Wave Height (ft)

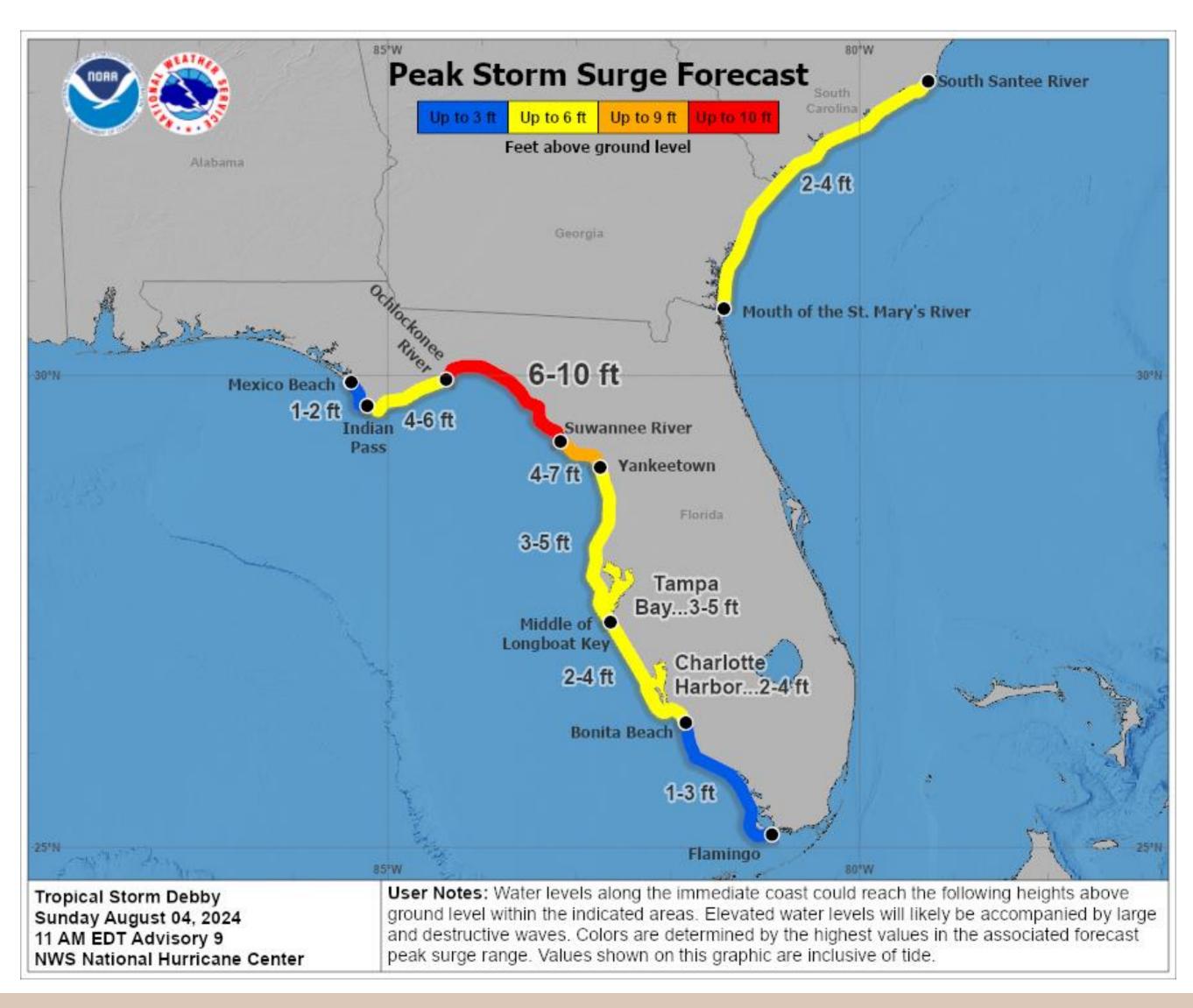


A Storm Surge Warning is in effect for...

* Florida coast from the middle of Longboat Key northward to Indian Pass including Tampa Bay

A Storm Surge Watch is in effect for...

* Florida coast from Bonita Beach northward to the middle of Longboat Key, including Charlotte Harbor

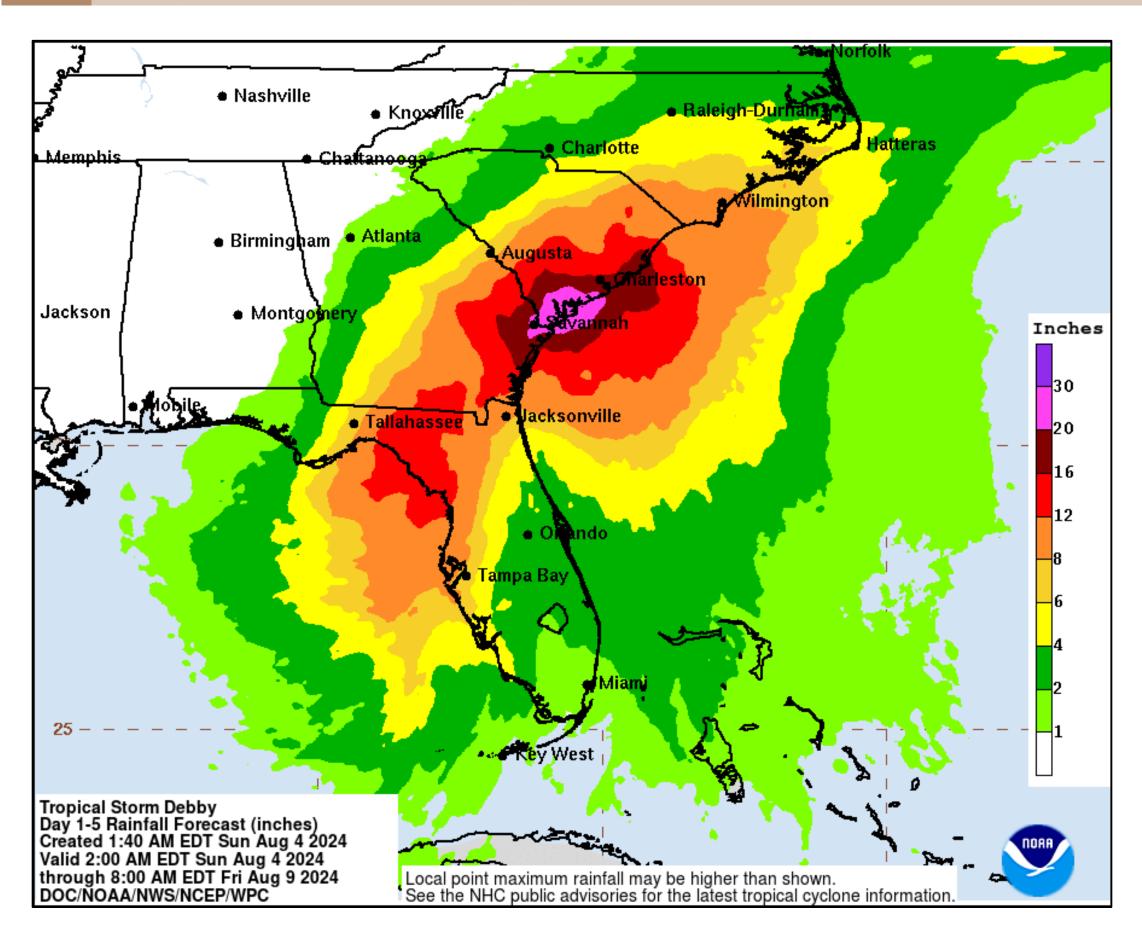


Expected Storm Total Rainfall and Chance of Rainfall Flooding

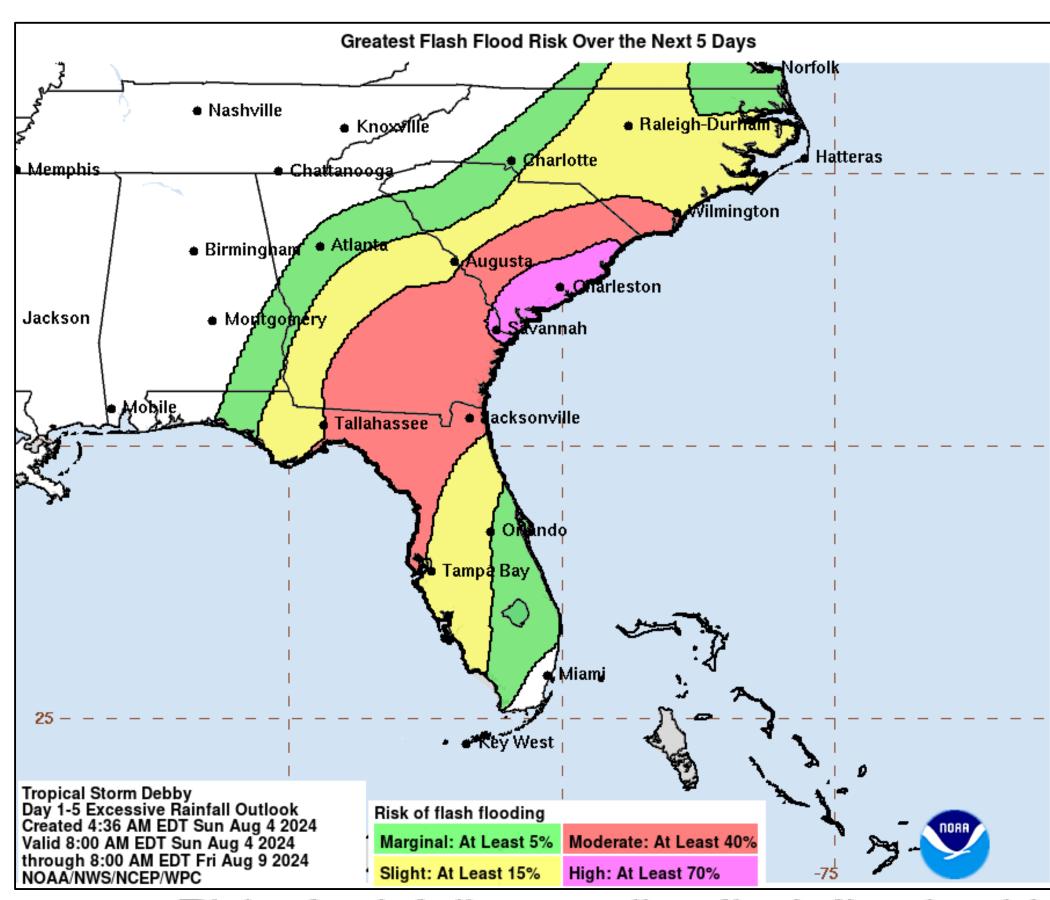
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Tropical Storm Debby

Images from NWS Weather Prediction Center



Florida Panhandle: 4 to 8 inches with locally higher amounts possible with a slight to moderate risk of flooding



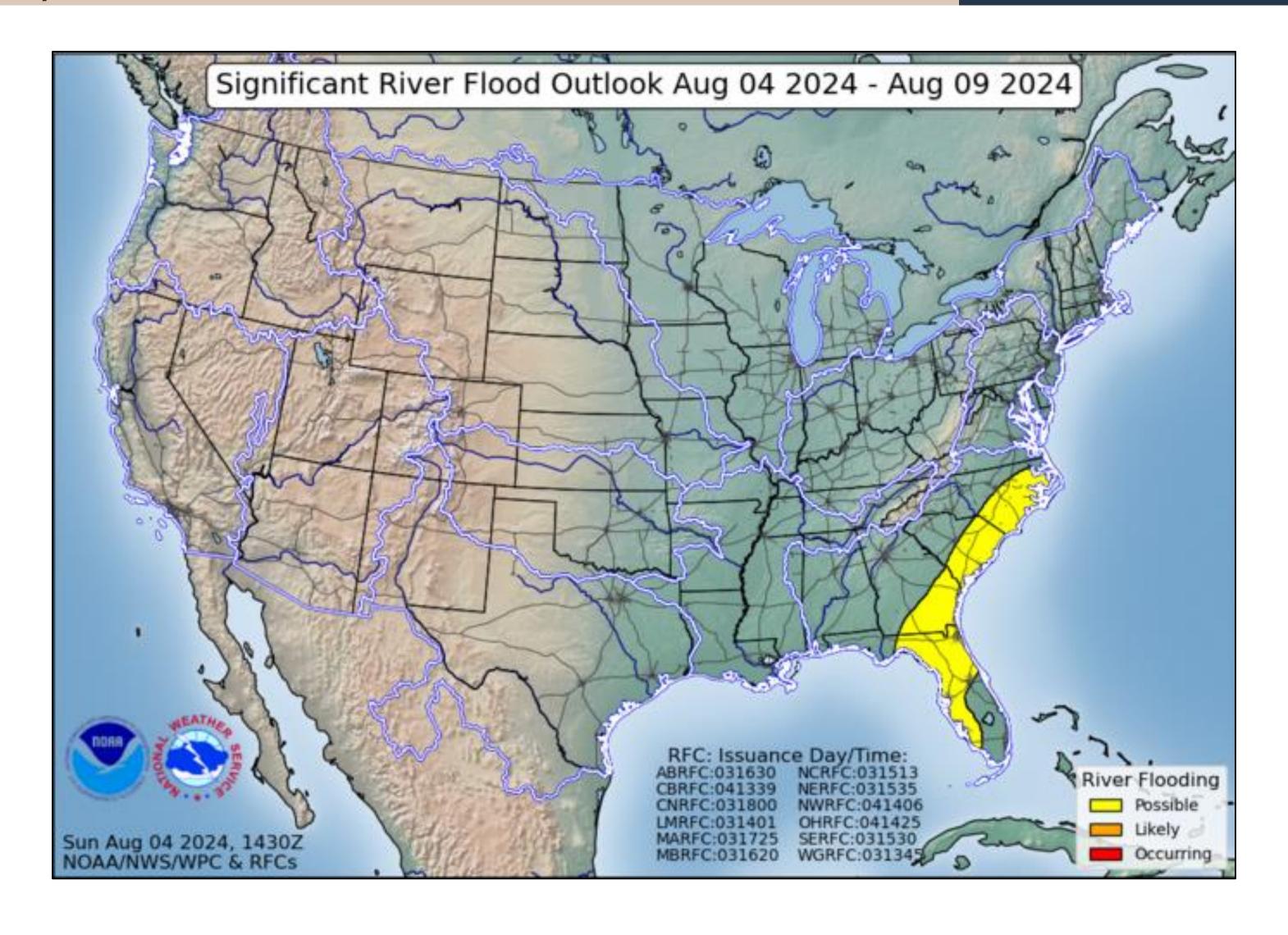
Risk of rainfall exceeding flash flood guidance within 25 miles of a point

HIGH: > 50%

SLGT: 10%-20%

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

Refer to map legend for Valid Time



Tornado Outlook — Day I and 2

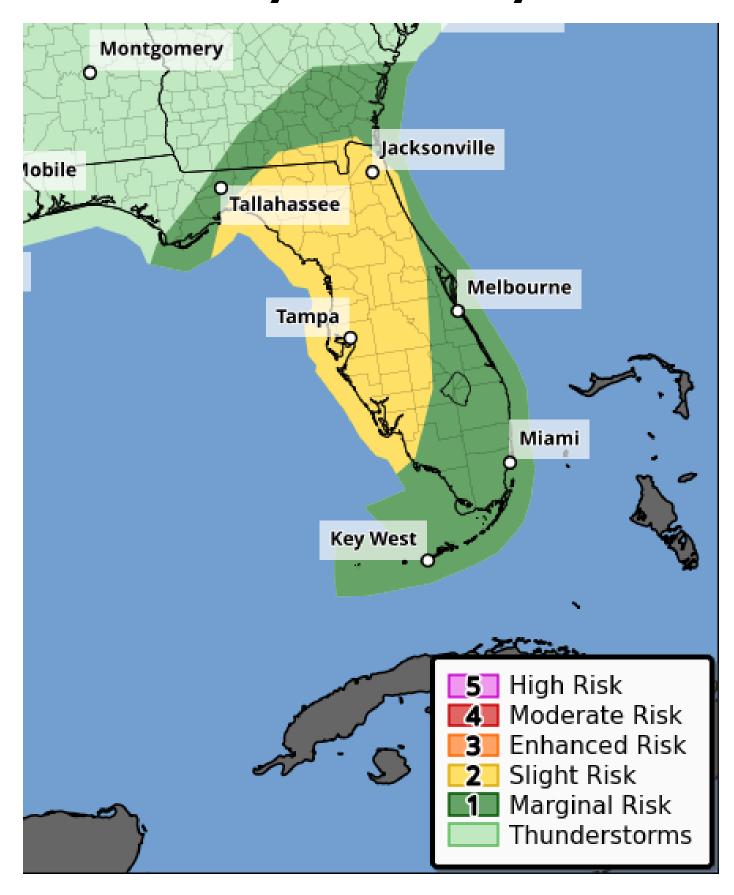
Tropical Storm Debby

Image from NWS Storm Prediction Center

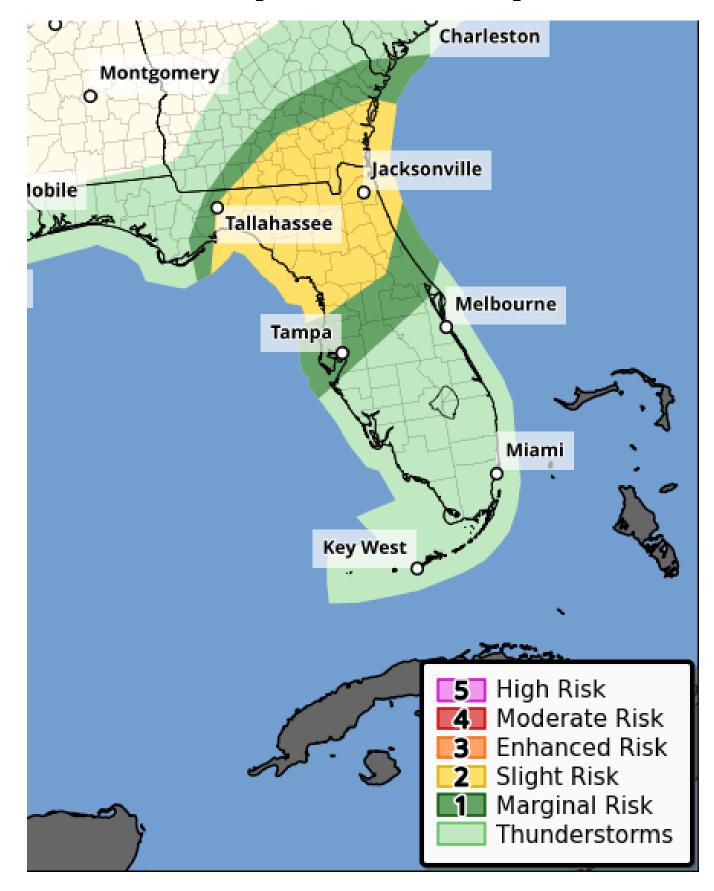


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Day I - Sunday



Day 2 - Monday





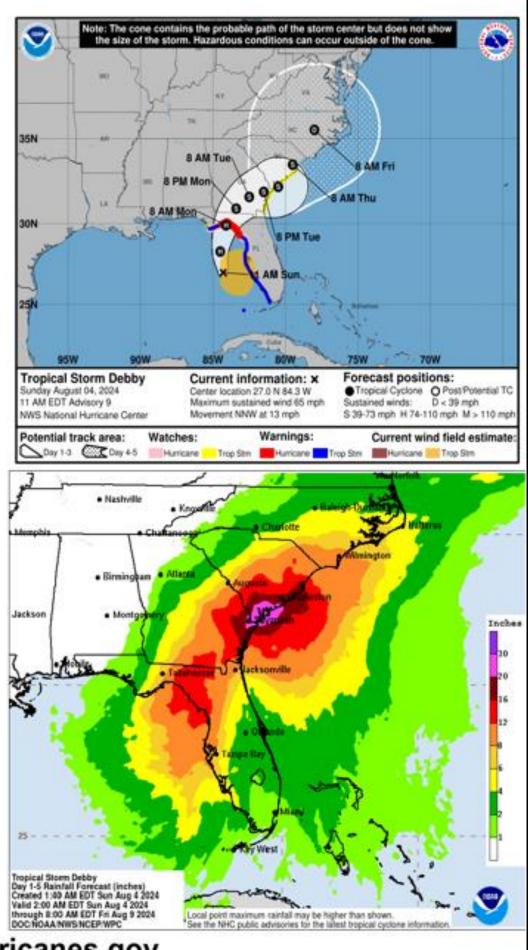
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Key Messages for Tropical Storm Debby Advisory 9: 11:00 AM EDT Sun Aug 04, 2024



- 1. Heavy rainfall will likely result in considerable flooding impacts from the Florida Big Bend region through southeast GA and the Coastal Plain of the Carolinas through Friday. Potentially historic heavy rainfall across southeast Georgia and South Carolina through Friday morning may result in areas of catastrophic flooding. Significant river flooding is also expected.
- 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 and Suwannee River on Monday. Residents in the Storm Surge Warning area should follow any advice given by local officials.
- 3. Hurricane conditions are expected Monday along portions of the Florida Big Bend region where a Hurricane Warning is in effect, with tropical storm conditions beginning this evening. Tropical storm conditions are expected through Monday farther south within the Tropical Storm Warning along Florida's west coast, including the Tampa Bay area.
- 4. Impacts from storm surge and strong winds are possible along the southeast coast from Georgia to North Carolina through the middle of the week, and storm surge watches and tropical storm watches have been issued for portions of these areas. Additional watches and warnings will likely be required later today.



For more information go to hurricanes.gov

Marine Key Messages:

- Seas will continue to build to near 20 ft through tonight as Debby makes landfall
- Conditions across the Gulf will improve by Monday night into Tuesday morning

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



This briefing was prepared by:
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Phone: 305-229-4450

TROPICAL STORM DEBBY BRIEFING

TIME of NEXT NHC Advisory:

21 UTC: 4 PM CDT

The Next Briefing Will Be: Monday, 1200 pm CDT

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

