IMPACTS FOR D7 (through next 5 days)

Winds – Low

Storm Surge - Low

Rainfall/Flash Flooding - Extreme

Tornadoes – Medium

Waves - Medium

TROPICAL STORM DEBBY BRIEFING



9:00 AM EDT

Thursday, August 8, 2024
Prepared by:

Amanda Reinhart

Tropical Analysis and Forecast Branch NWS National Hurricane Center



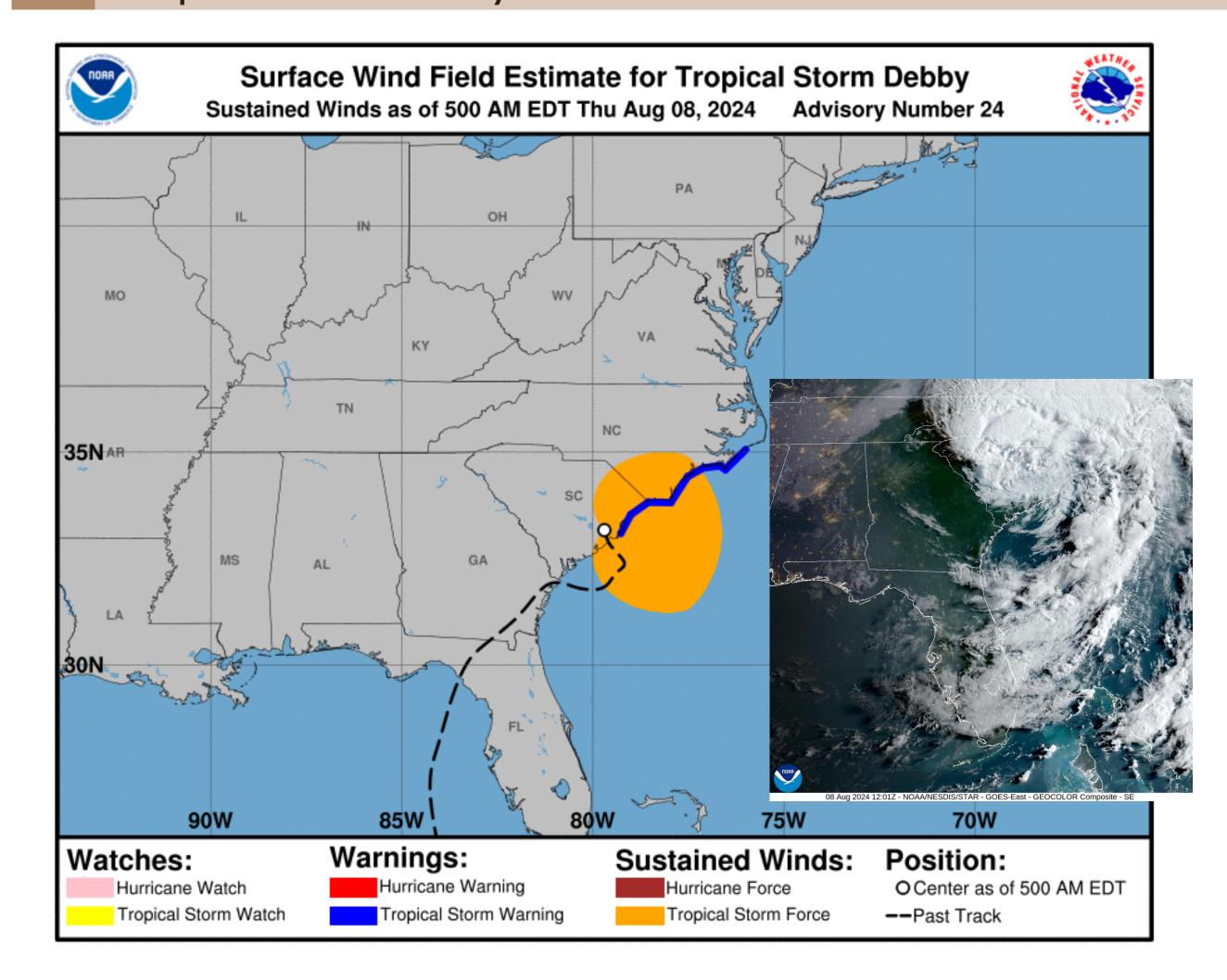
Debby made landfall around 2am in the Bulls area of South Carolina

 Tropical Storm Warnings have dropped over the southern half of South Carolina but continue north of the Santee River to Ocracoke Inlet, NC

Storm Surge Warnings have been dropped

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Debby



...DEBBY MOVES FARTHER INLAND OVER SOUTH CAROLINA...

...MAJOR FLOOD THREAT CONTINUES FOR PORTIONS OF THE CAROLINAS AND WESTERN VIRGINIA...

Summary of 800 AM EDT Information

Location...34.1N 79.9W About 55 nm WNW of Myrtle Beach South Carolina

About 80 nm N of Charleston South Carolina Maximum Sustained Winds...45 kt Present Movement...NW at 6 kt

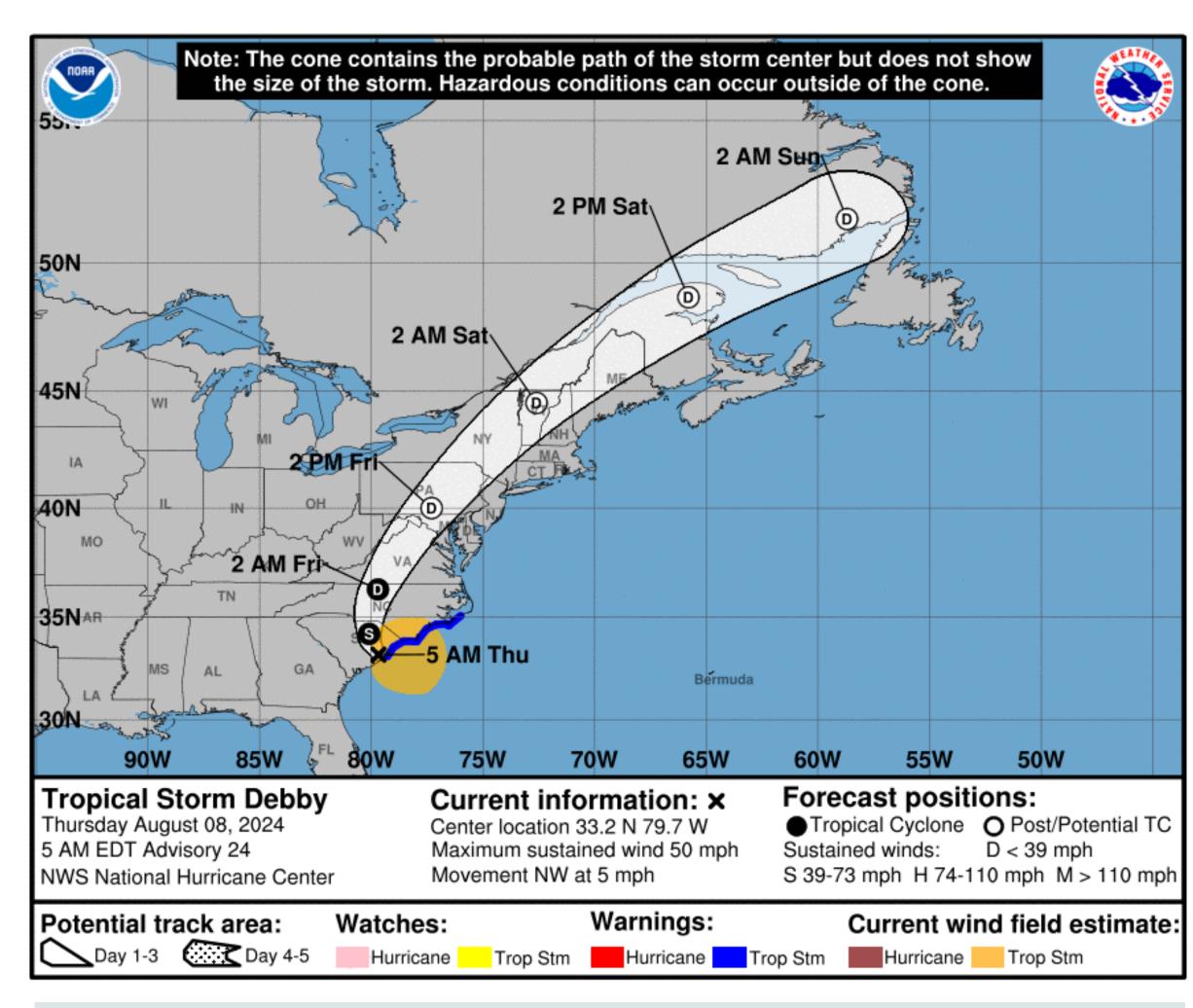
Peak Seas: 19 ft

12 ft Seas...270NE 180SE 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.

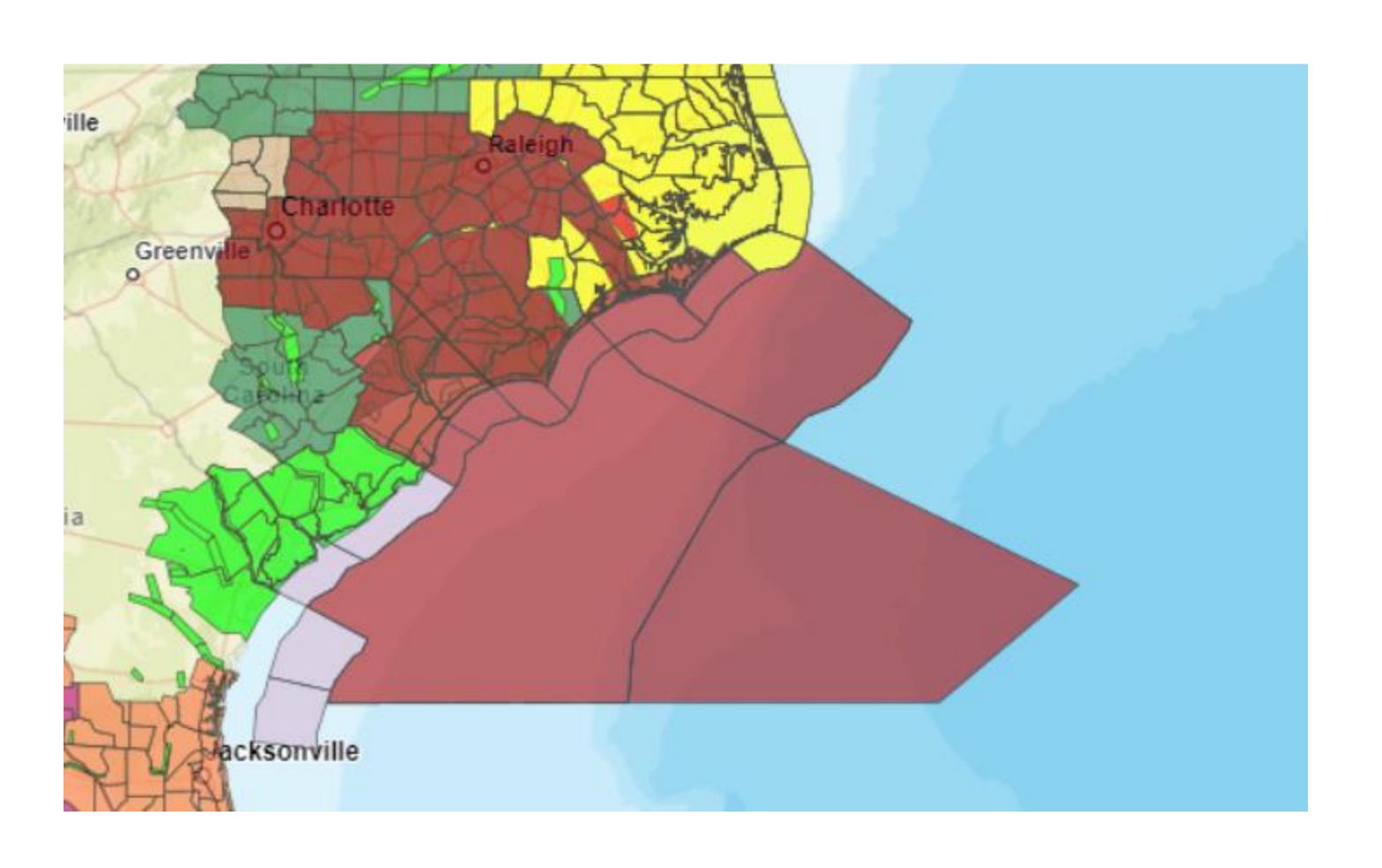
- Debby will pick up pace as it moves today, reaching eastern South Carolina and central North Carolina through tonight
- Debby will continue to weaken as the center moves farther inland, becoming a depression by this afternoon or evening
- Threat of heavy rainfall will move out of the South Carolina region tonight into Friday
- 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.

Tropical Storm Debby



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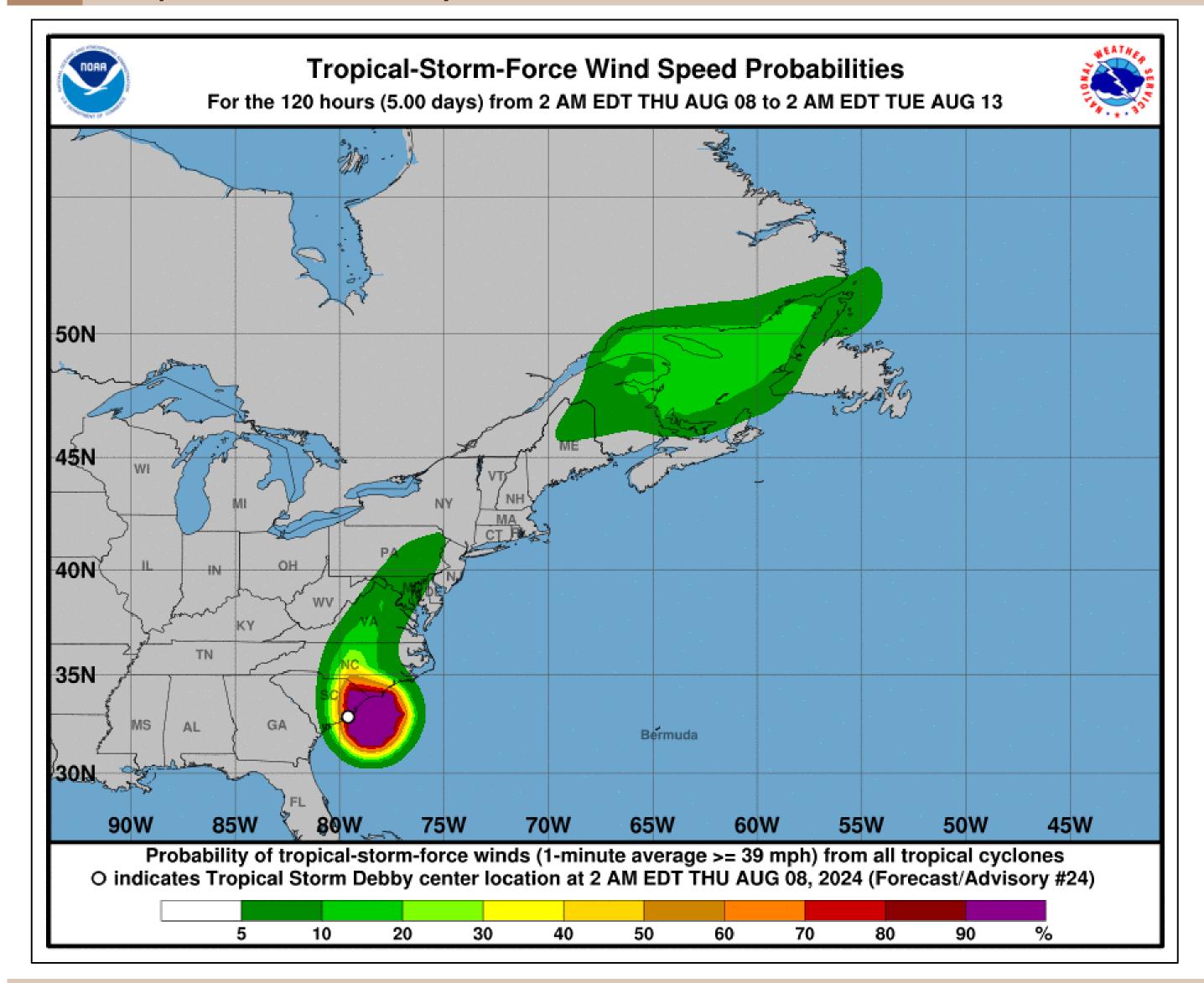


T.S. Wind Speed Probabilities

Tropical Storm Debby



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- CHARLESTON 45%
- MYRTLE BEACH 100%

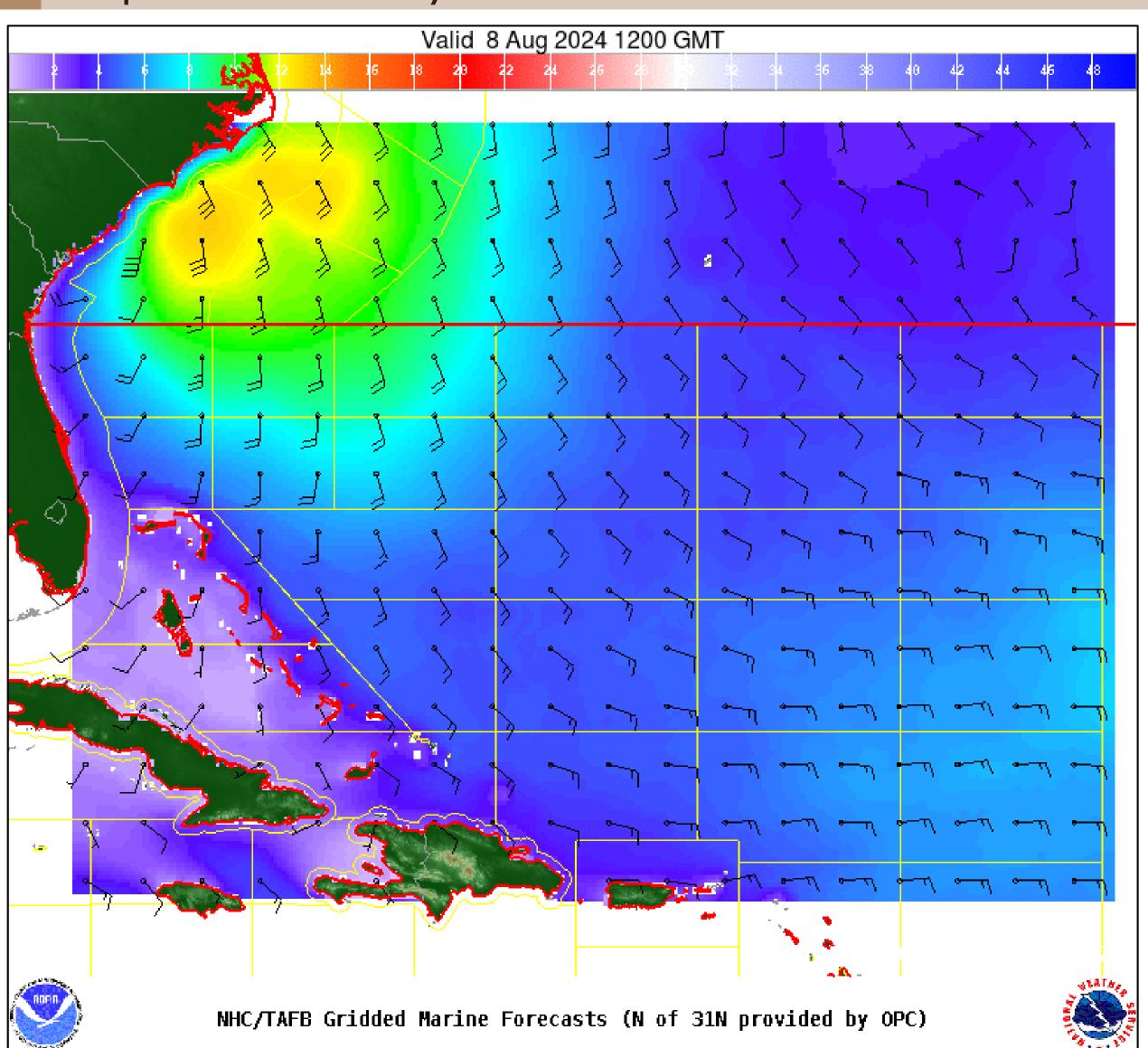
-Green indicates
probabilities have gone
down since last briefing
-Red indicates
probabilities have gone up
since last briefing
-Black indicates
probabilities remain the
same

- 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.

Wind And Waves

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Tropical Storm Debby



Current Conditions

Thursday, August 8 at 8am EDT

Peak Winds: 40 kt

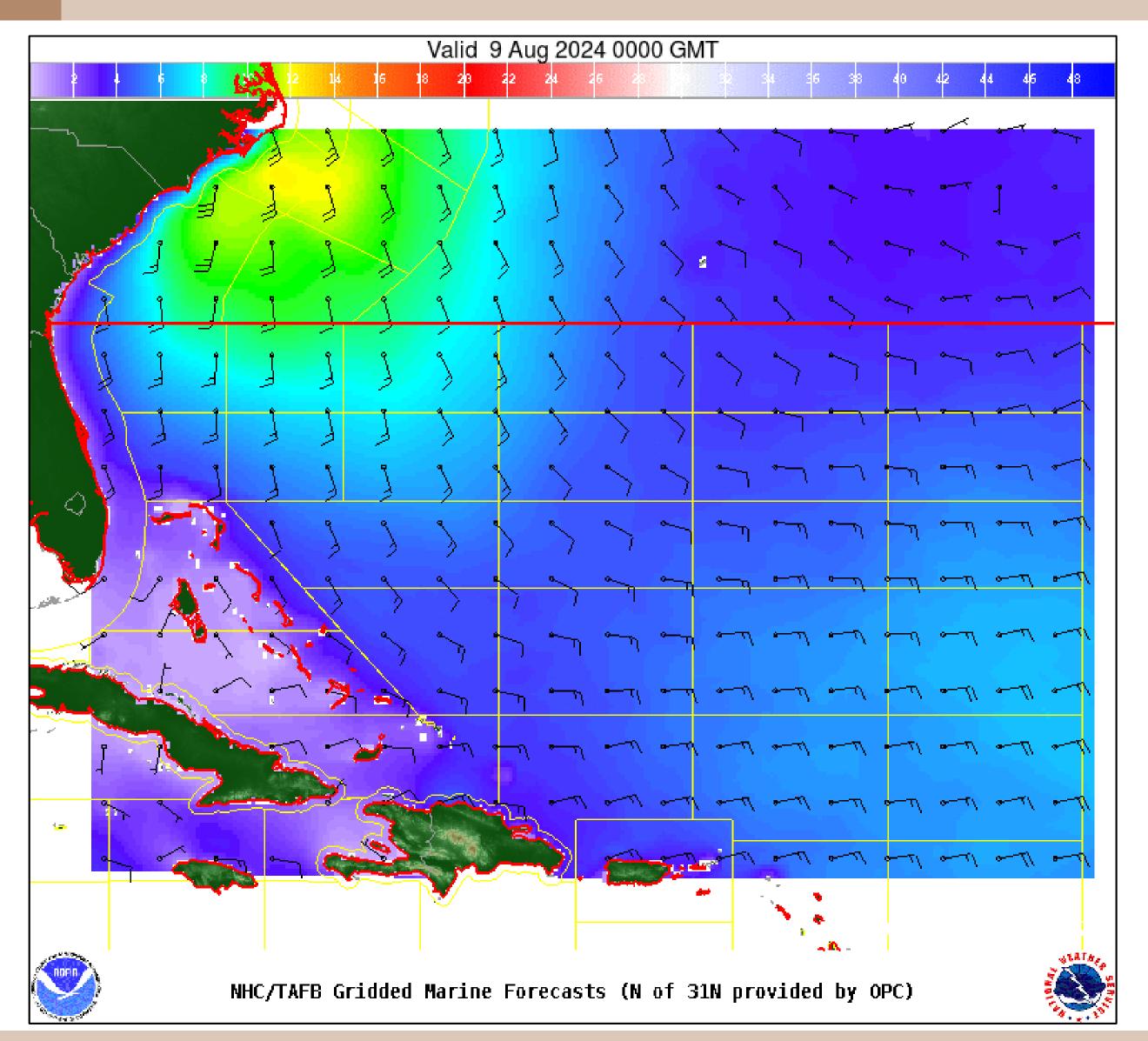
Peak Seas: 16 ft

Wave heights are in feet



Significant Wave Height (ft)

Wind And Waves



12 Hour Forecast

Thursday, August 8 at 8pm EDT

Peak Winds: 30 kt

Peak Seas: 14 ft

Wave heights are in feet

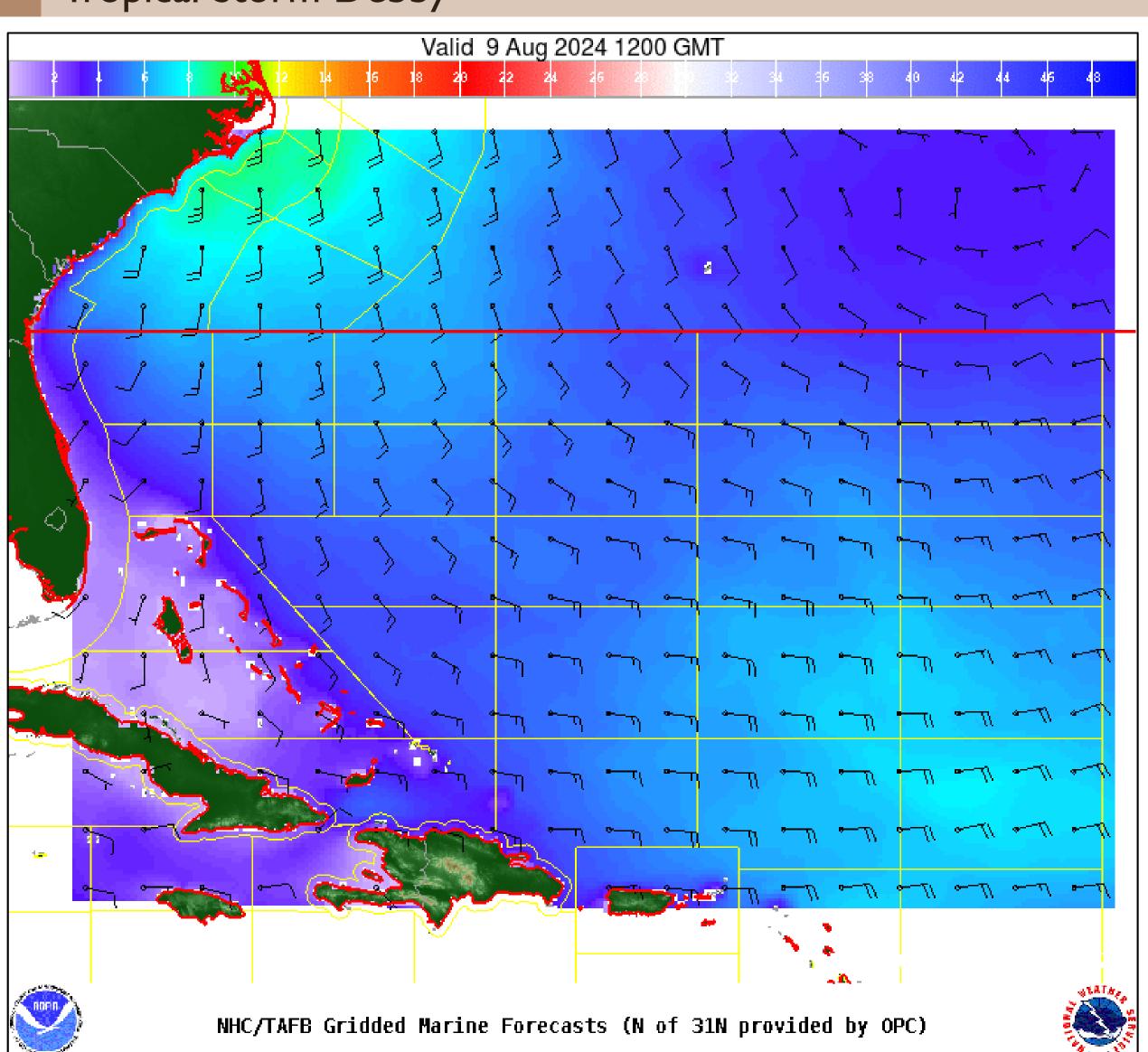


Significant Wave Height (ft)

Wind And Waves

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Tropical Storm Debby



48 Hour Forecast

Friday, August 9 at 8am EDT

Peak Winds: 25 kt

Peak Seas: 6-9 ft

Wave heights are in feet



Significant Wave Height (ft)

Time of Departure

Tropical Storm Debby

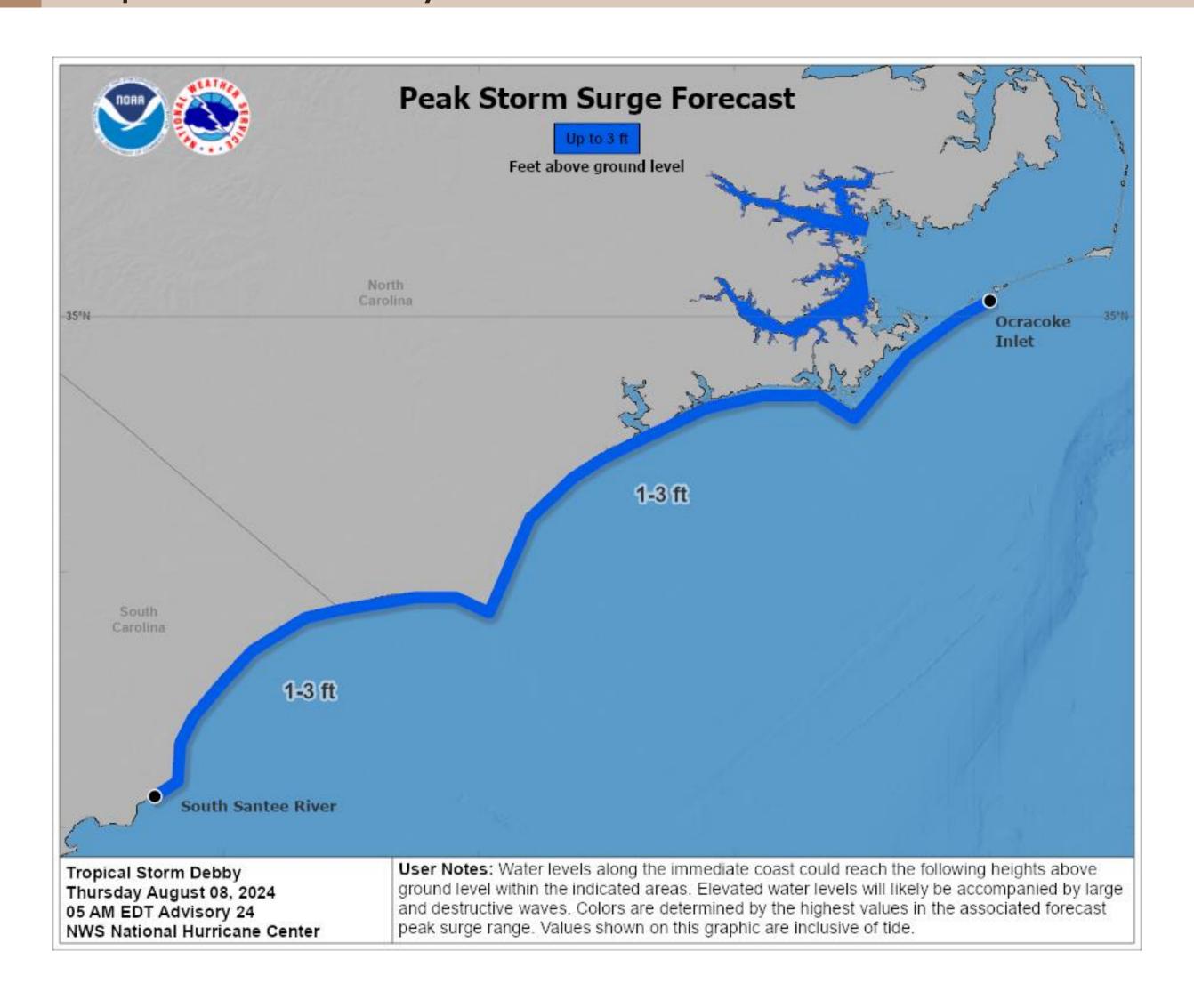


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City	Most Likely	Latest Reasonable
Charleston, SC	Thursday morning	Thursday afternoon
Myrtle Beach, SC	Early Thursday afternoon	Thursday evening

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Tropical Storm Debby



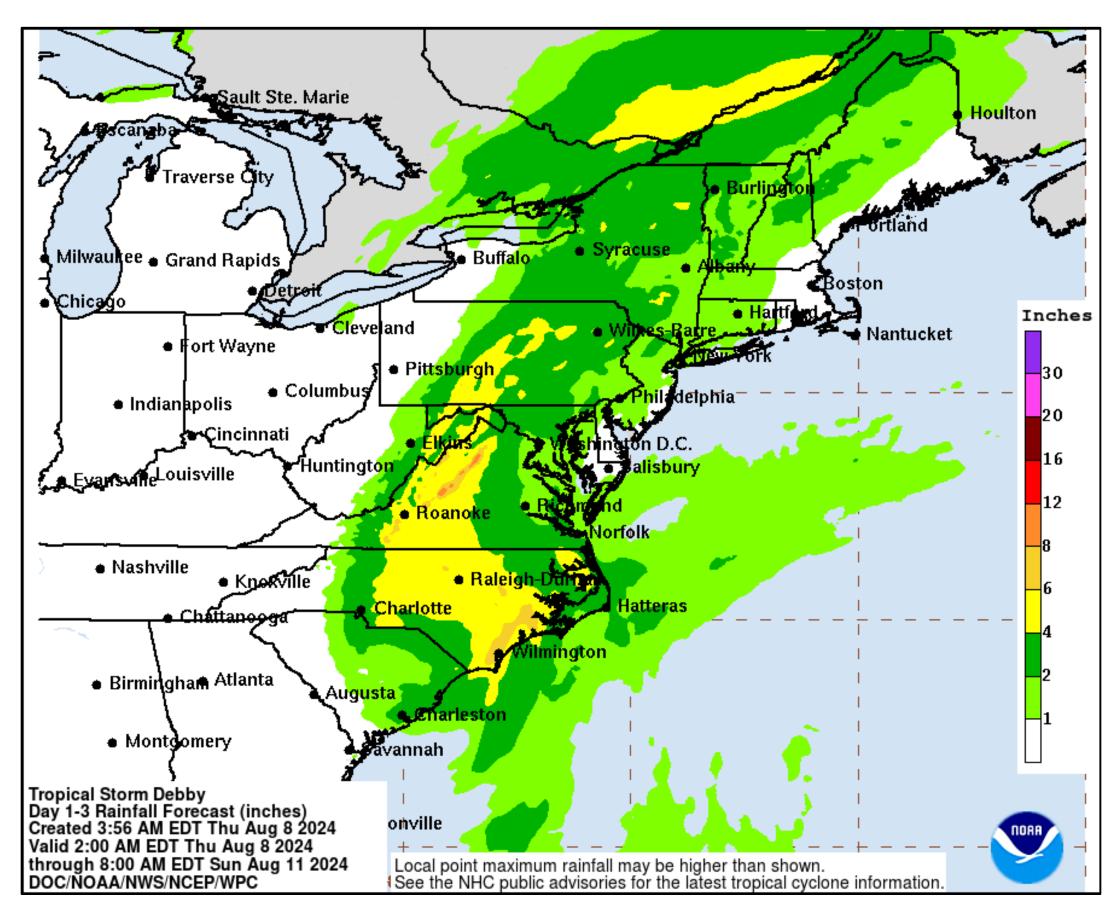
Expected Storm Total Rainfall and Chance of Rainfall Flooding

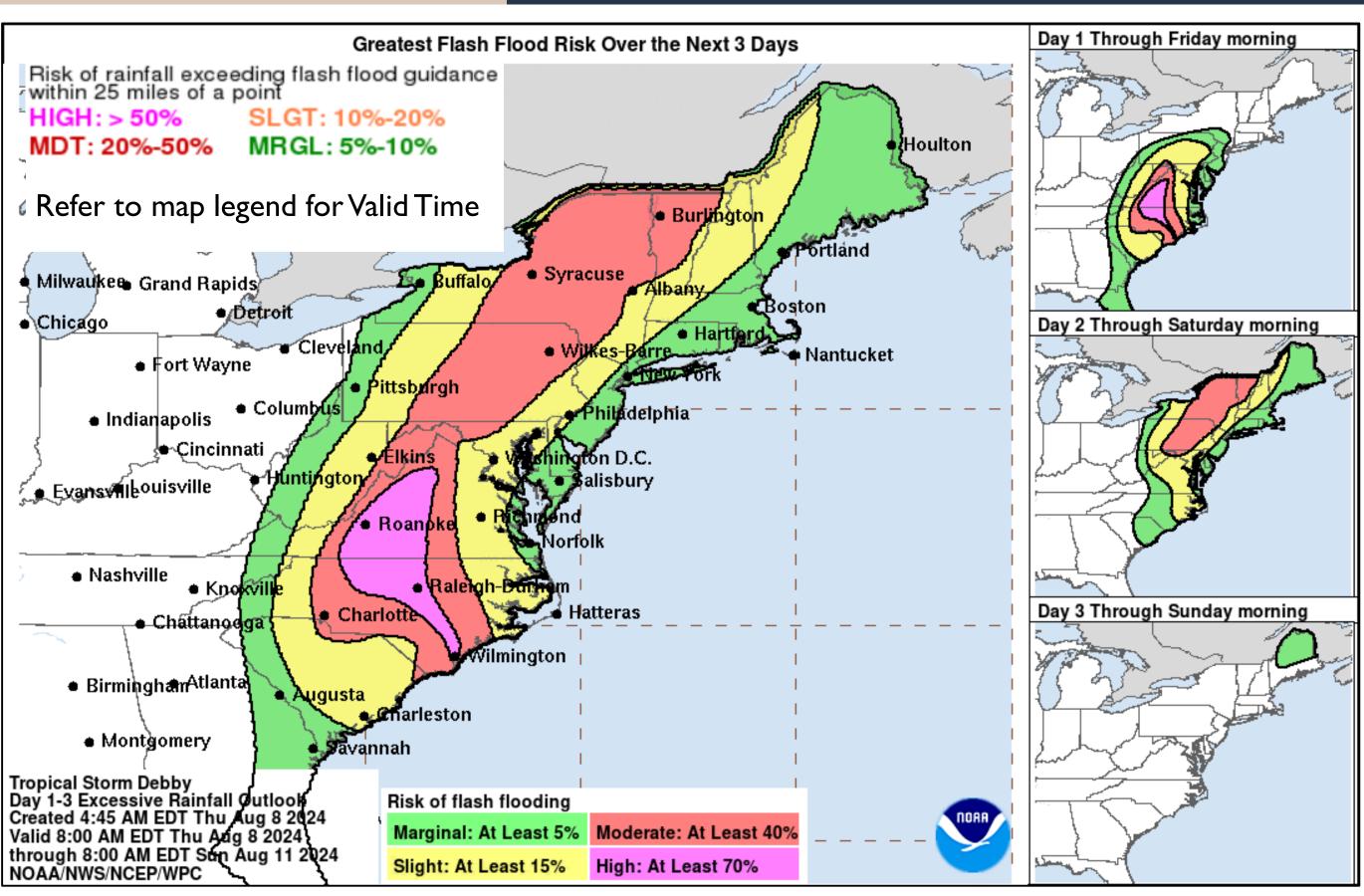
EATHER SERVICE

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Debby

Images from NWS Weather Prediction Center

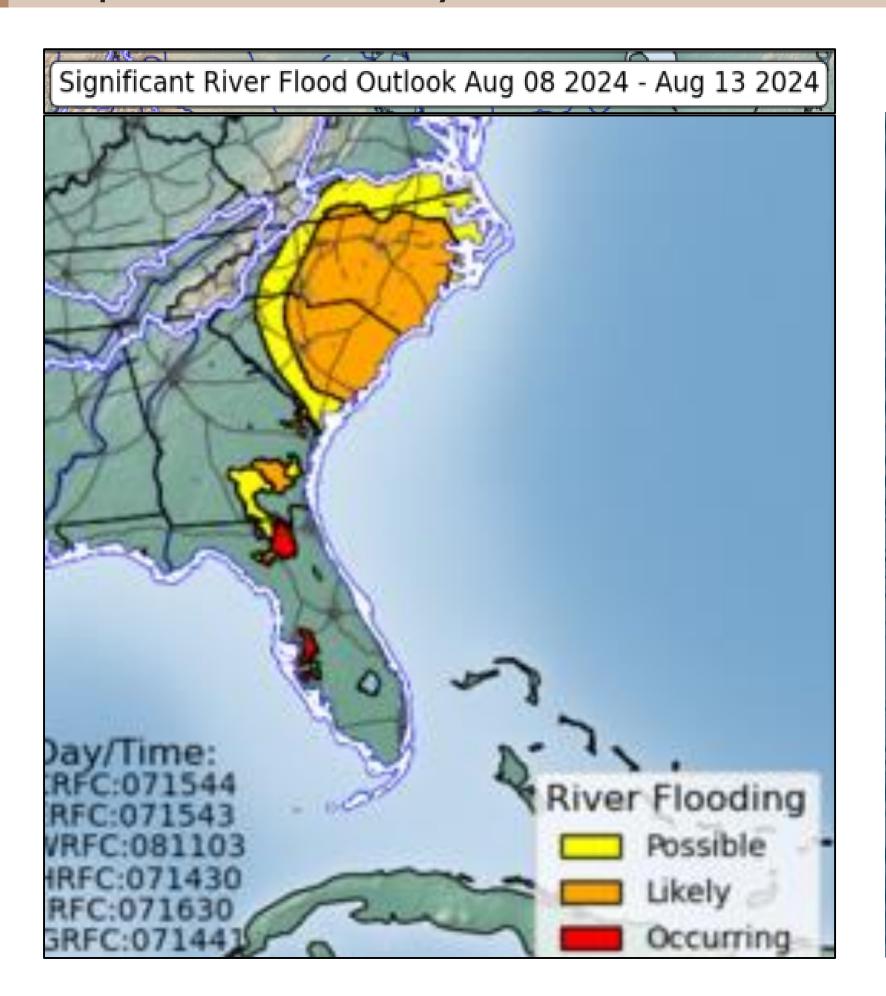


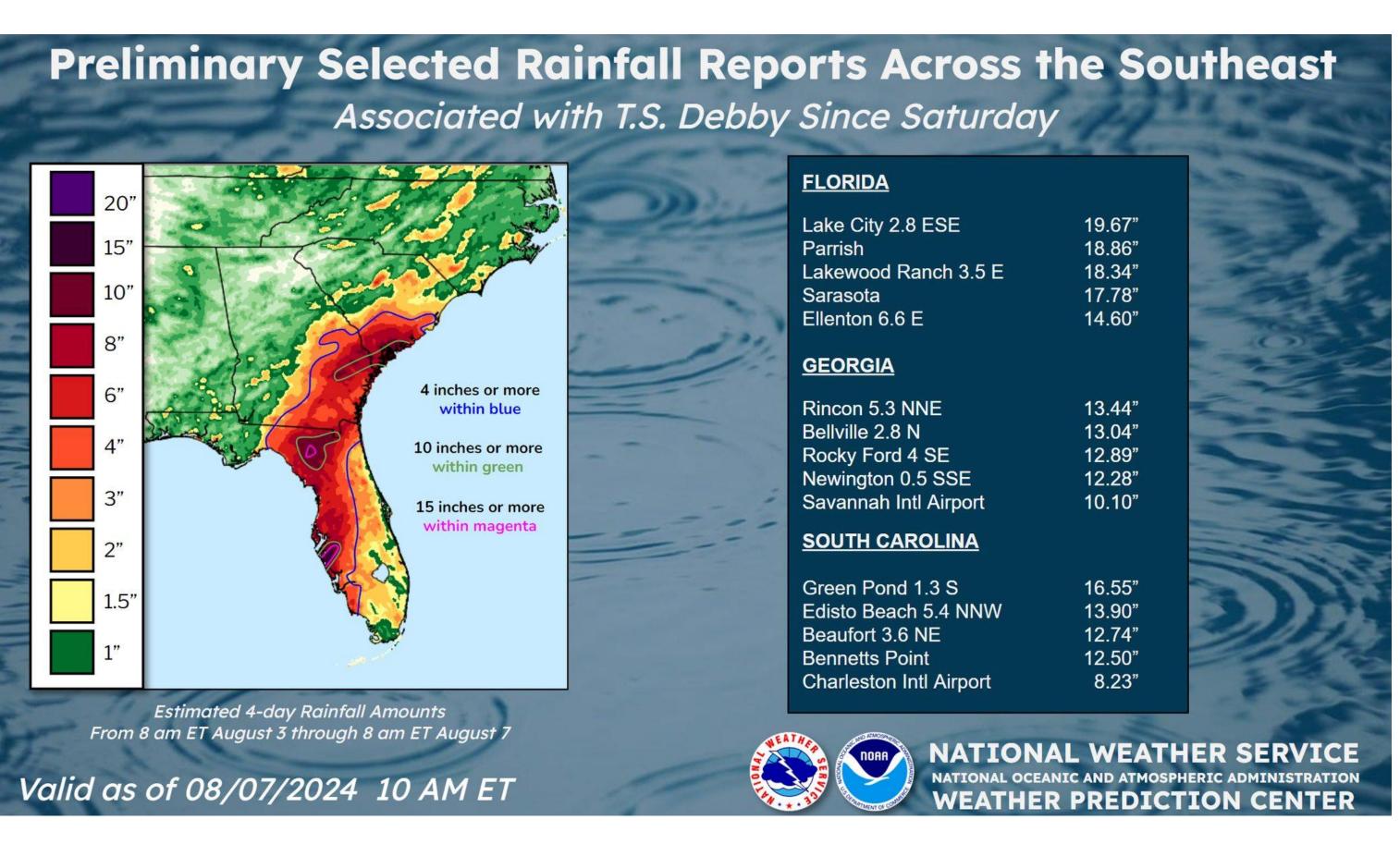


- -Debby is expected to produce an additional 3 to 6 inches of rainfall with locally higher amounts, across portions of southeastern North Carolina leading to maximum storm total amounts as high as 15 inches.
- -Additional rainfall of 1 to 3 inches over portions of eastern South Carolina will bring maximum storm total amounts as high as 20 to 25 inches.
- -Considerable flooding is expected across portions of eastern South Carolina and southeast North Carolina through Friday.

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Debby





Tropical Storm Debby

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Thursday

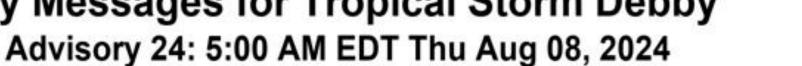


Tropical Storm Debby

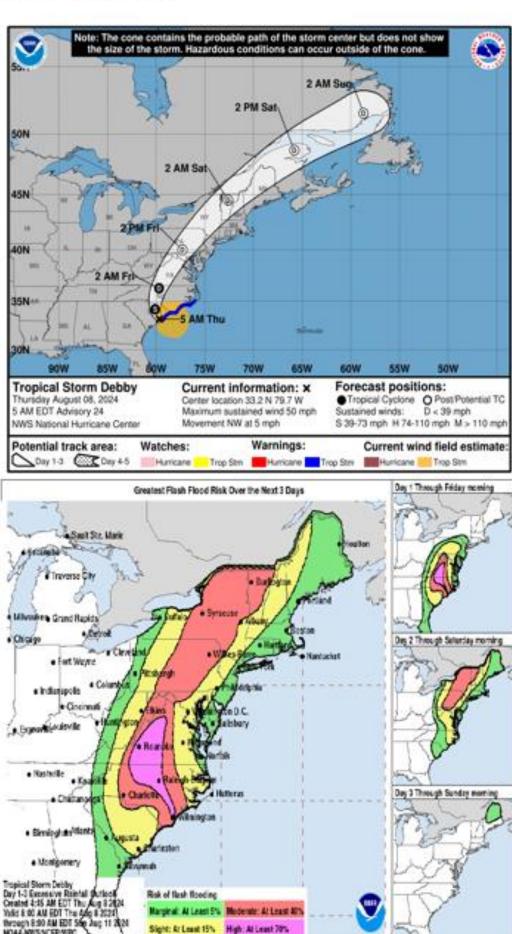




Key Messages for Tropical Storm Debby



- 1. Heavy rainfall across portions of the Carolinas is expected to persist through today along with areas of considerable flooding. Heavy rainfall will also result in considerable flooding impacts across portions of the Mid-Atlantic States and Northeast through Saturday morning.
- 2. Tropical storm conditions will continue to affect portions of the South Carolina and North Carolina coasts today.
- Coastal flooding due to storm surge is likely along portions of the South Carolina and North Carolina coastline through today.



For more information go to hurricanes.gov

Marine Key Messages:

Conditions off the South Carolina coast will improve tonight into Friday

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



This briefing was prepared by:
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305-229-4450

TROPICAL STORM DEBBY BRIEFING

TIME of NEXT NHC Advisory:

15 UTC: II AM EDT

The Next Briefing Will Be: Thursday, 5:00 PM EDT

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

