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

TROPICAL STORM DEBBY BRIEFING

5:00 PM EDT Wednesday, August 7, 2024 Prepared by: Keren Rosado-Vázquez **Tropical Analysis and Forecast Branch NWS National Hurricane Center**

NATIONAL Center MIAMI FLORIDA

NHC_TAFB









Changes Since This Morning

Tropical Storm Debby

- was adjusted accordingly.
 - Therefore, peak winds and seas forecast increased slightly.



Earlier today, Air Force Hurricane Hunters found Tropical Storm Debby slightly more intense than what was forecast. Thus, intensity forecast

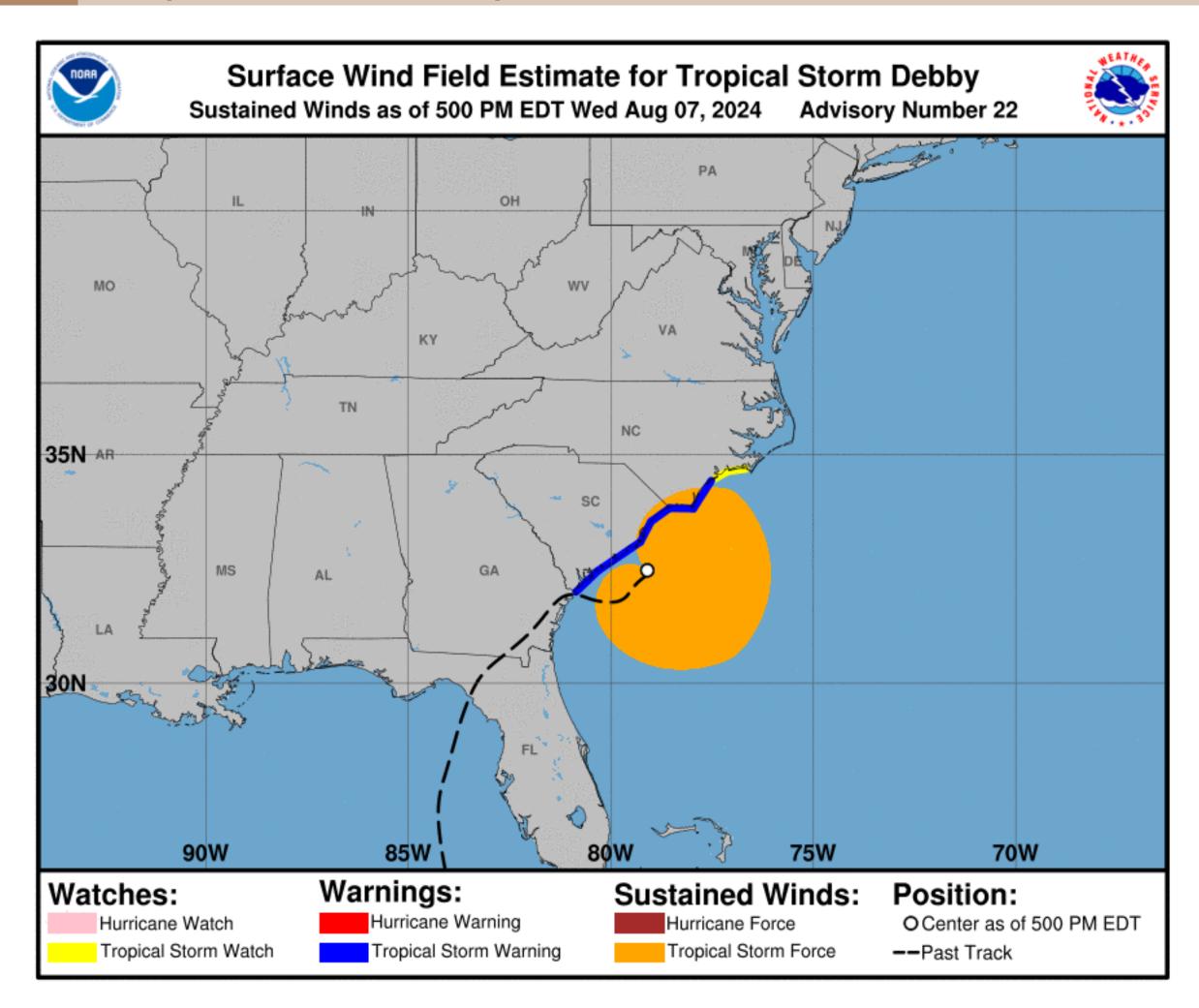






Situation Overview

Tropical Storm Debby





... DEBBY SLOWLY APPROACHING THE COAST OF SOUTH CAROLINA... ... MAJOR FLOOD THREAT CONTINUES FOR PORTIONS OF THE CAROLINAS...

SUMMARY OF 500 PM EDT...INFORMATION

LOCATION...32.5N 79.1W ABOUT 45 NM...ESE OF CHARLESTON SOUTH CAROLINA ABOUT 75 NM... S OF MYRTLE BEACH SOUTH CAROLINA MAXIMUM SUSTAINED WINDS...50 KT PRESENT MOVEMENT...NNE OR 30 DEGREES AT 3 KΤ MINIMUM CENTRAL PRESSURE...995 MB

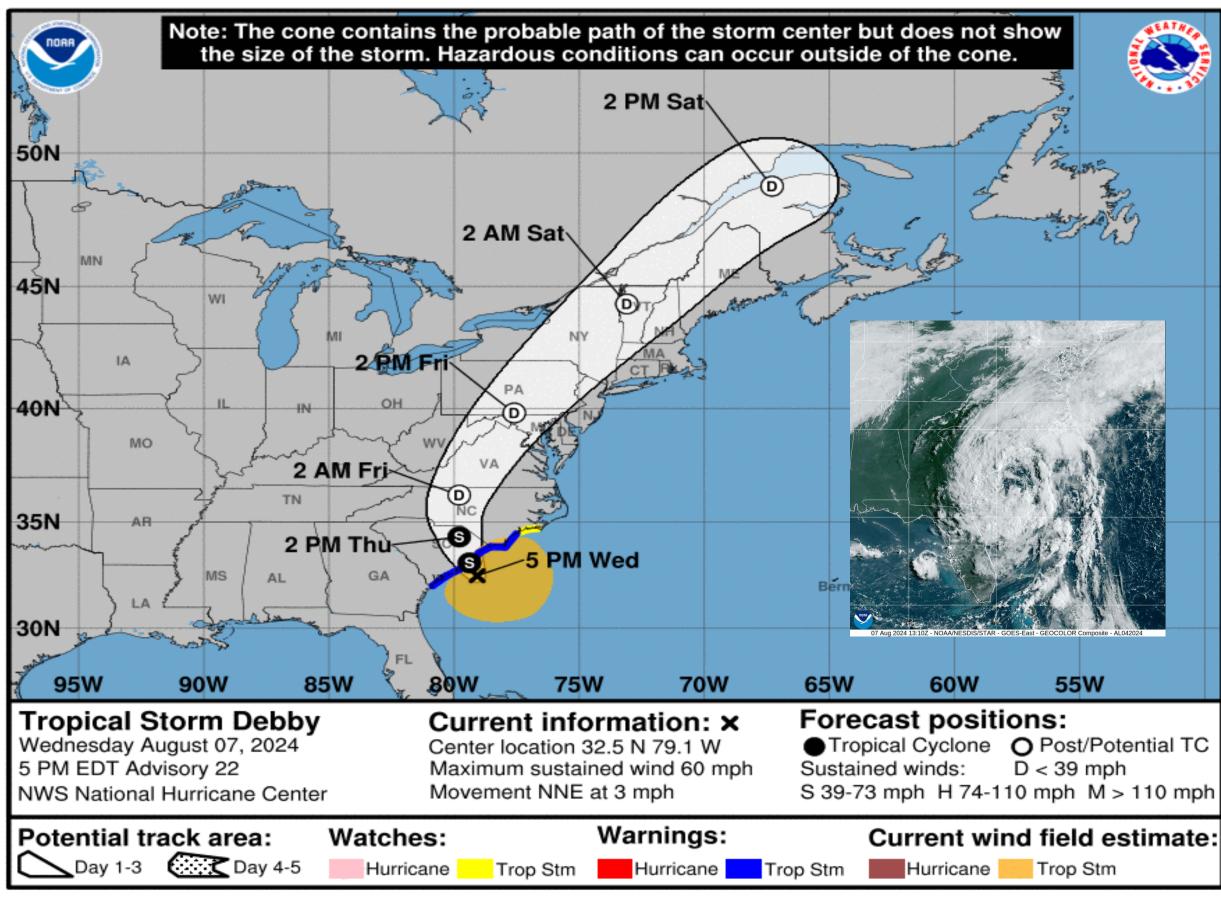






Forecast Information

Tropical Storm Debby



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

8/7/2024 5:55 PM



- A turn toward the north is expected tonight, bringing the center across the South Carolina coast on Thursday morning.
- Slight strengthening is possible tonight before the center of Debby reaches the coast of South Carolina.
- Weakening is forecast to begin on Thursday after the center moves inland.
- 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.

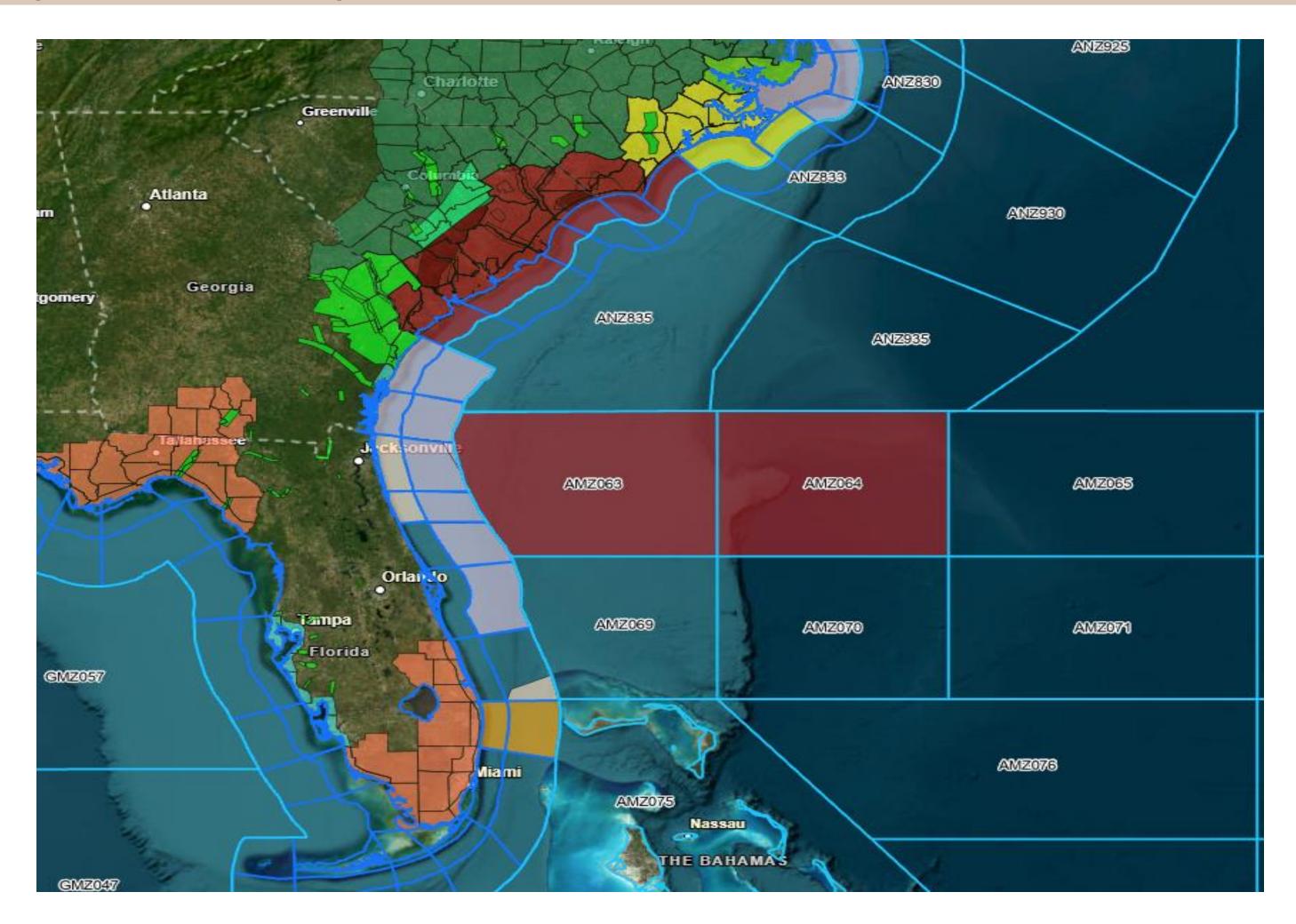






Hazards Map

Tropical Storm Debby



8/7/2024 5:55 PM



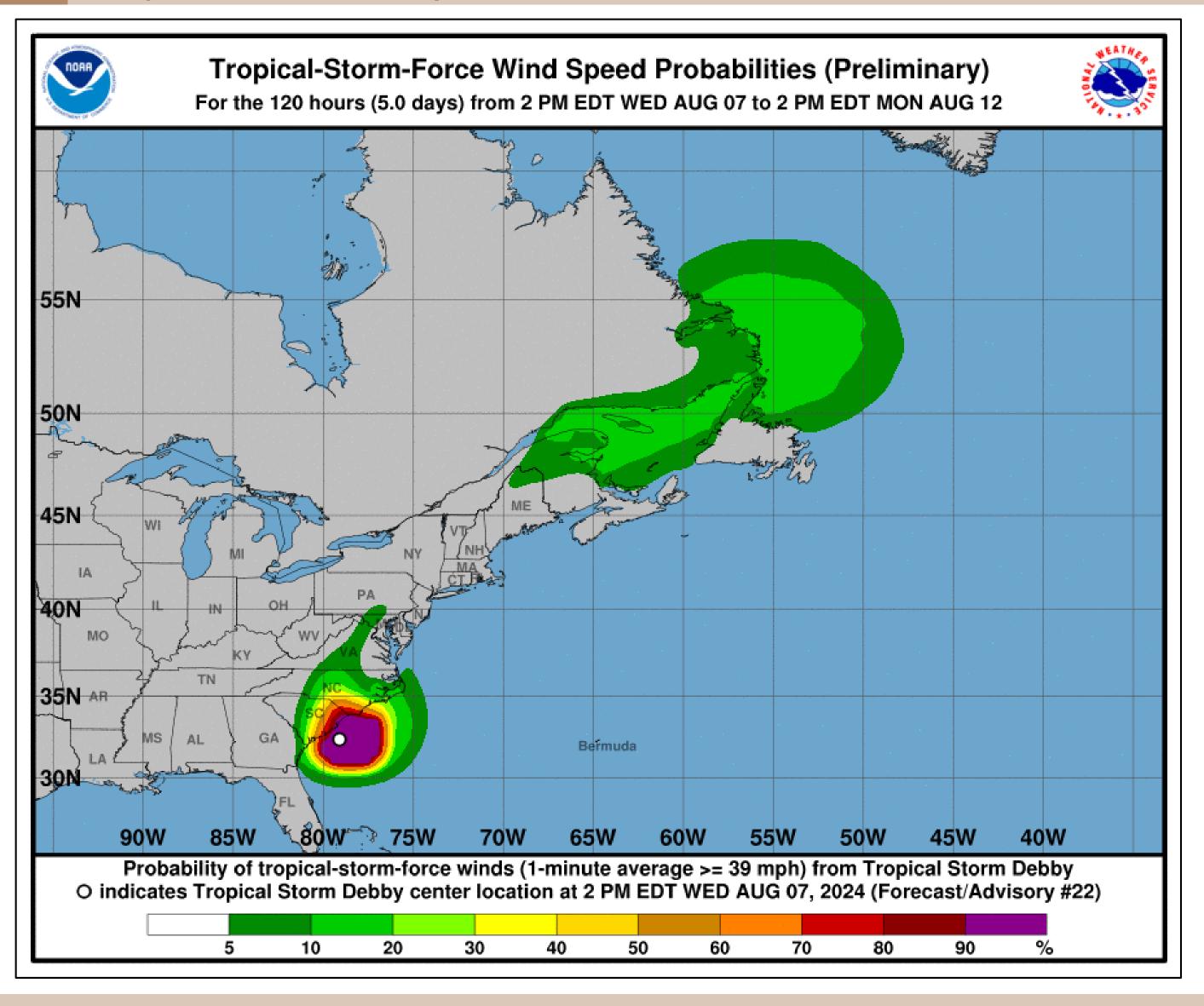
Tropical Analysis and Forecast Branch NWS National Hurricane Center





T.S. Wind Speed Probabilities

Tropical Storm Debby



8/7/2024 5:55 PM



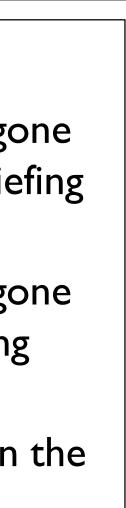
same

- SAVANNAH 8%
- BEAUFORT 45%
- CHARLESTON 79%
- MYRTLE BEACH 94%

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

- 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.







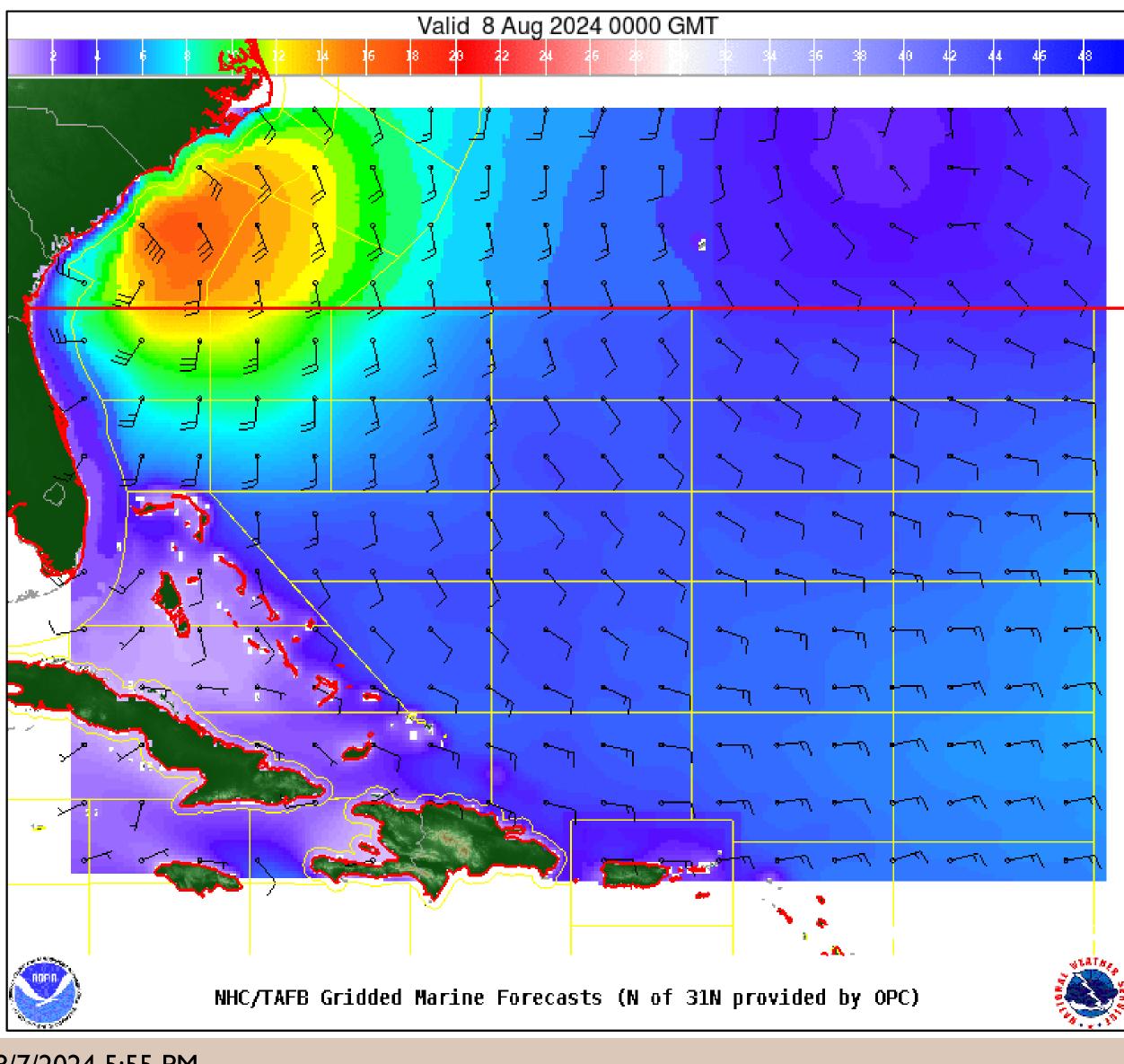








Tropical Storm Debby



8/7/2024 5:55 PM



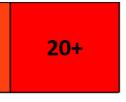
3 Hour Forecast

Wednesday, August 7, 2024 at 8:00 PM EDT Peak Winds: 50 kt Peak Seas: 19 ft

Wave heights are in feet

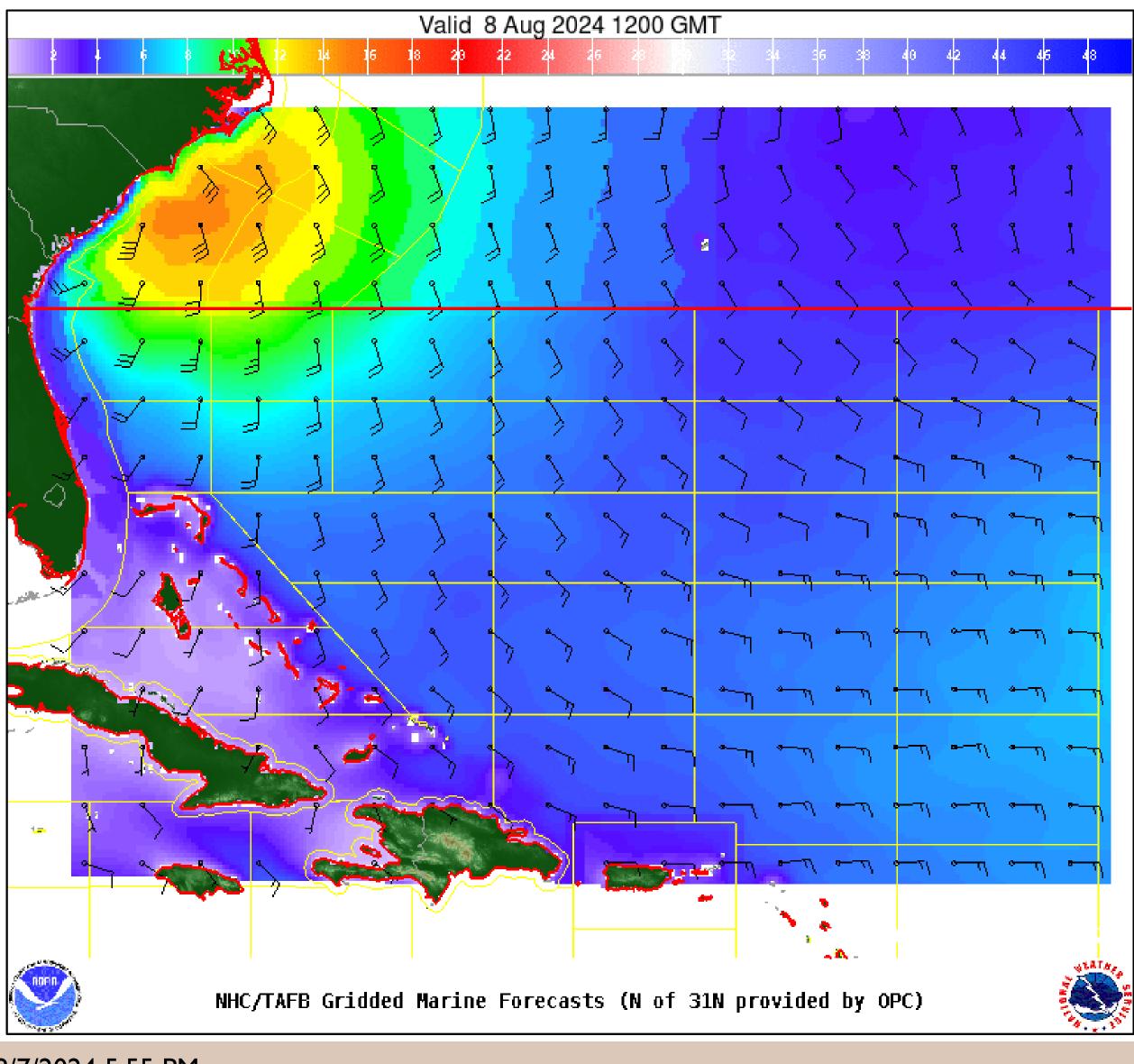
2	4	6	8	10	12	14	16	18
---	---	---	---	----	----	----	----	----







Tropical Storm Debby



8/7/2024 5:55 PM



12 Hour Forecast

Thursday, August 8, 2024 at 8:00 AM EDT Peak Winds: 45 kt Peak Seas: 17 ft

Wave heights are in feet

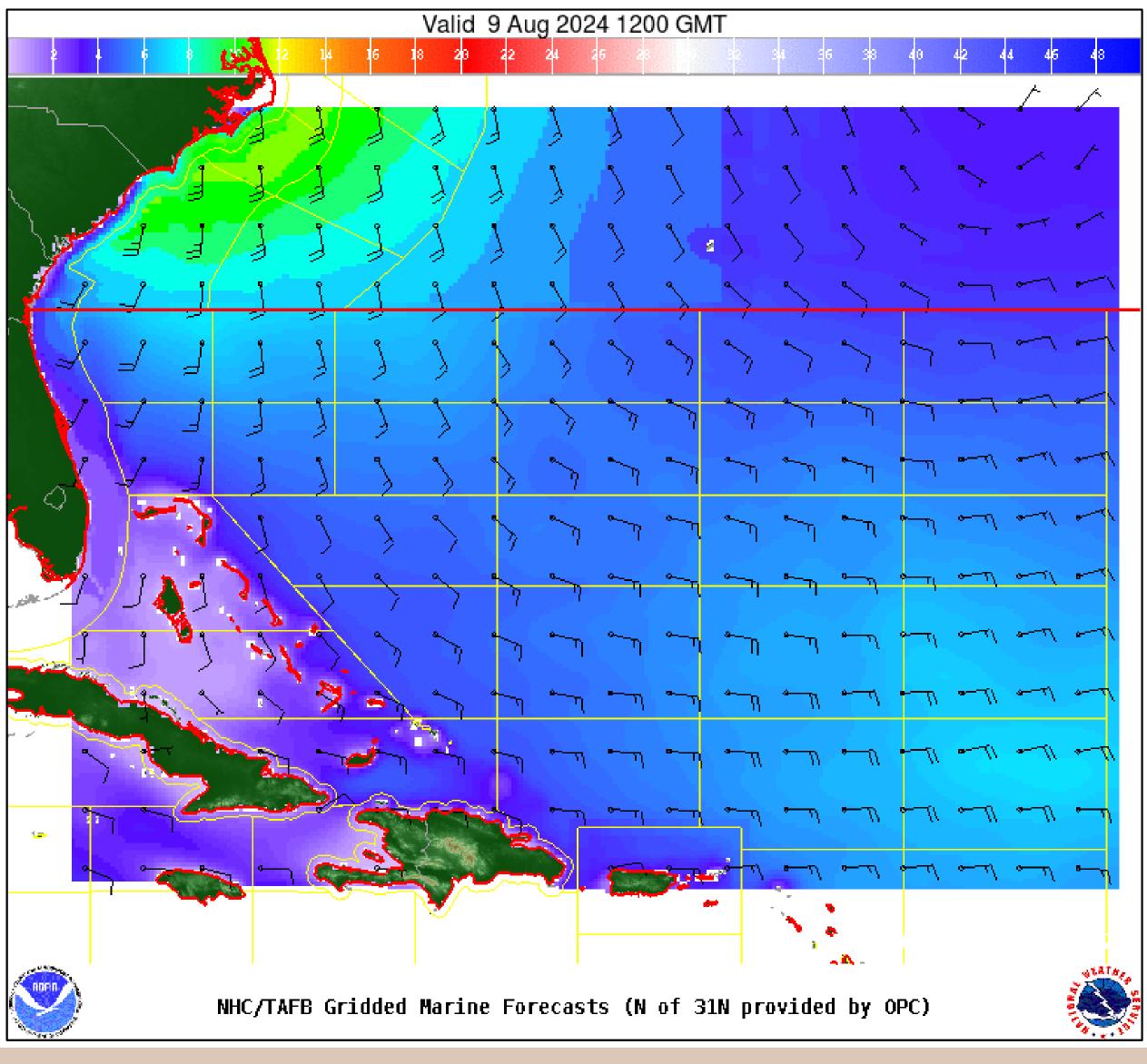
2 4 6 8 10 12 14 16	18
---------------------	----







Tropical Storm Debby



8/7/2024 5:55 PM



36 Hour Forecast

Friday, August 9, 2024 at 8:00 AM EDT Peak Winds: 25 kt Peak Seas: 11 ft

Wave heights are in feet

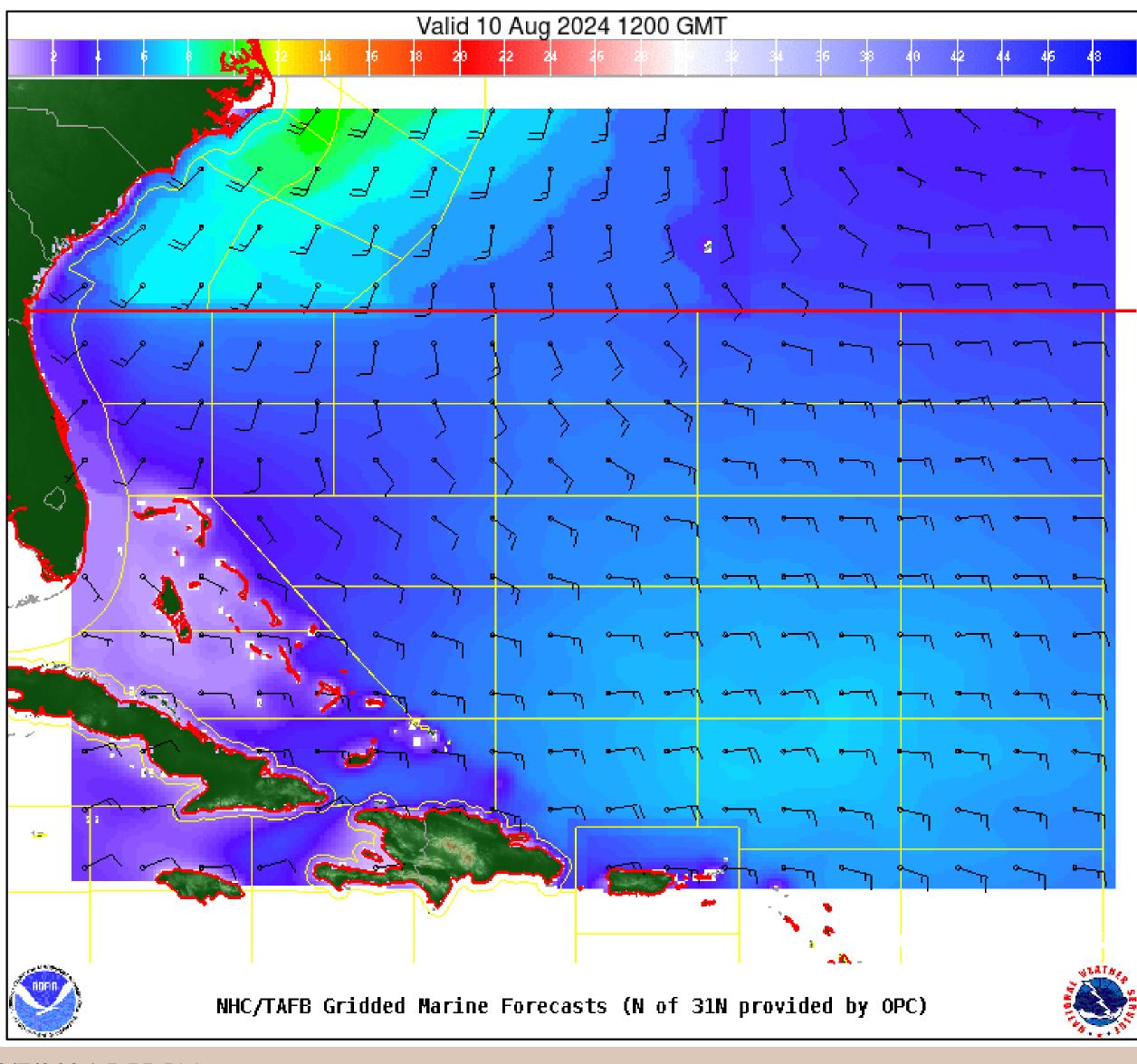
2	4	6	8	10	12	14	16	18
---	---	---	---	----	----	----	----	----







Tropical Storm Debby



8/7/2024 5:55 PM



60 Hour Forecast

Saturday, August 10, 2024 at 8:00 AM EDT Peak Winds: 15 kt

Peak Seas: 8 ft

Wave heights are in feet

2 4 6 8 10 12 14 16 18







Time of Departure

Tropical Storm Debby

City	Most Likely	Latest Reasonable Time of Departure
Charleston, SC	Thursday morning	Thursday early afternoon
Myrtle Beach, SC	Thursday late morning	Thursday afternoon



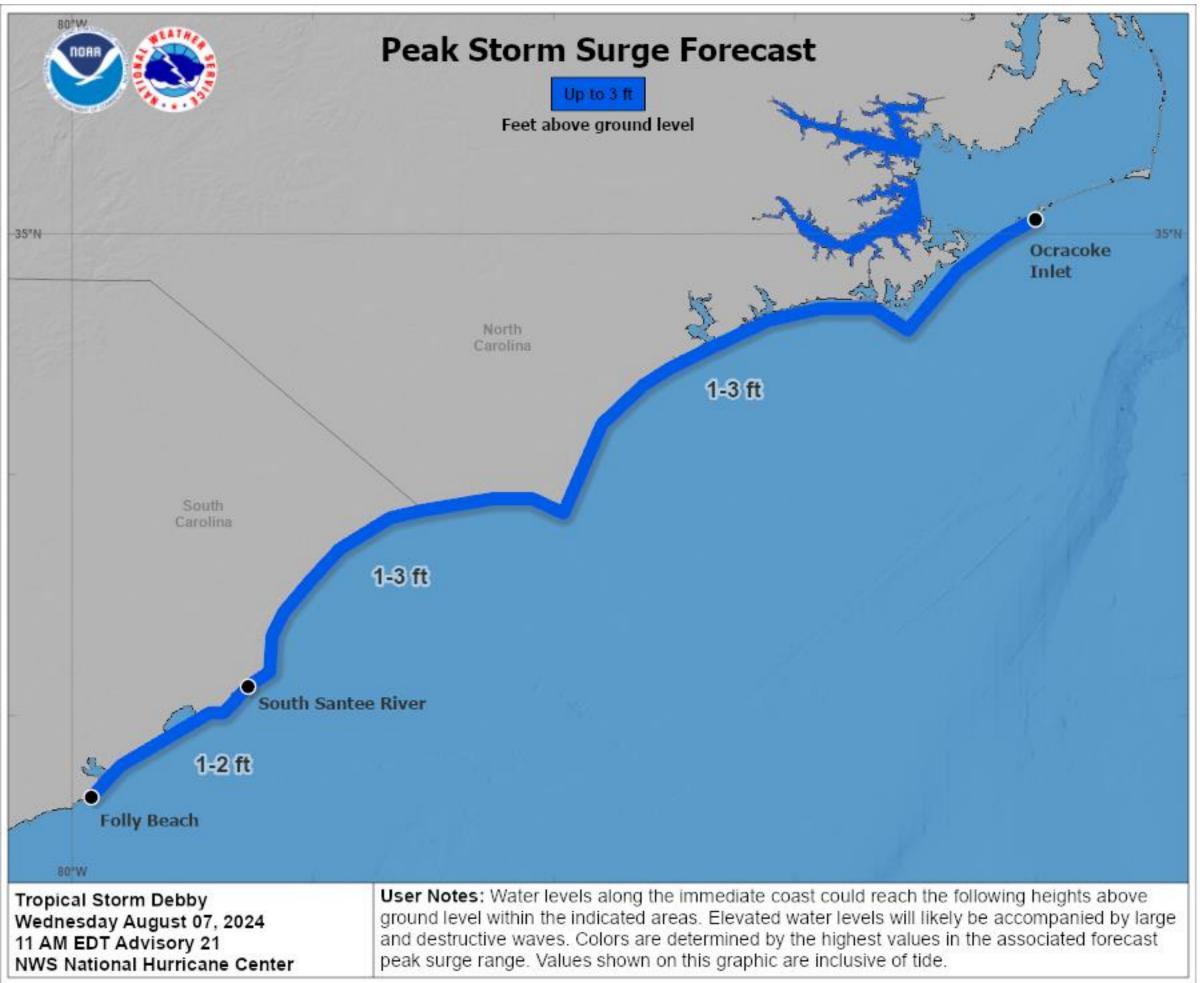
Latest Reasona		Time	Johar	
Laiesi neasuna	NIC		/Eµai	





Potential Peak Storm Surge / Watches and Warnings

Tropical Storm Debby



8/7/2024 5:55 PM



Peak Surge:

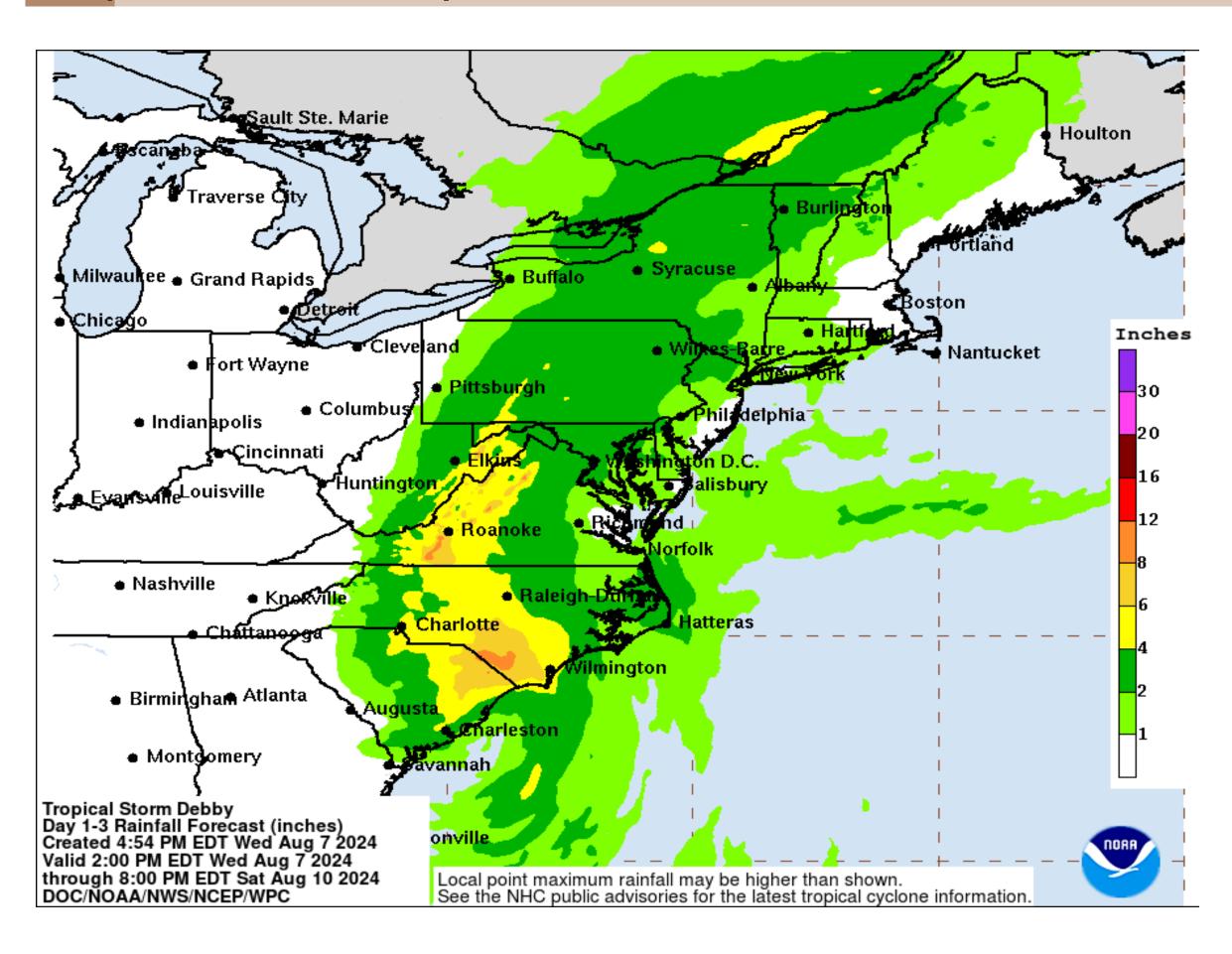
- 1-3 feet of surge north of South Santee River, SC lacksquareto Ocracoke Inlet, NC.
- 1-2 feet of surge south of South Santee River, SC lacksquareto Folly Beach, SC.
- No storm surge watches or warnings.



Expected Storm Total Rainfall and Chance of Rainfall Flooding

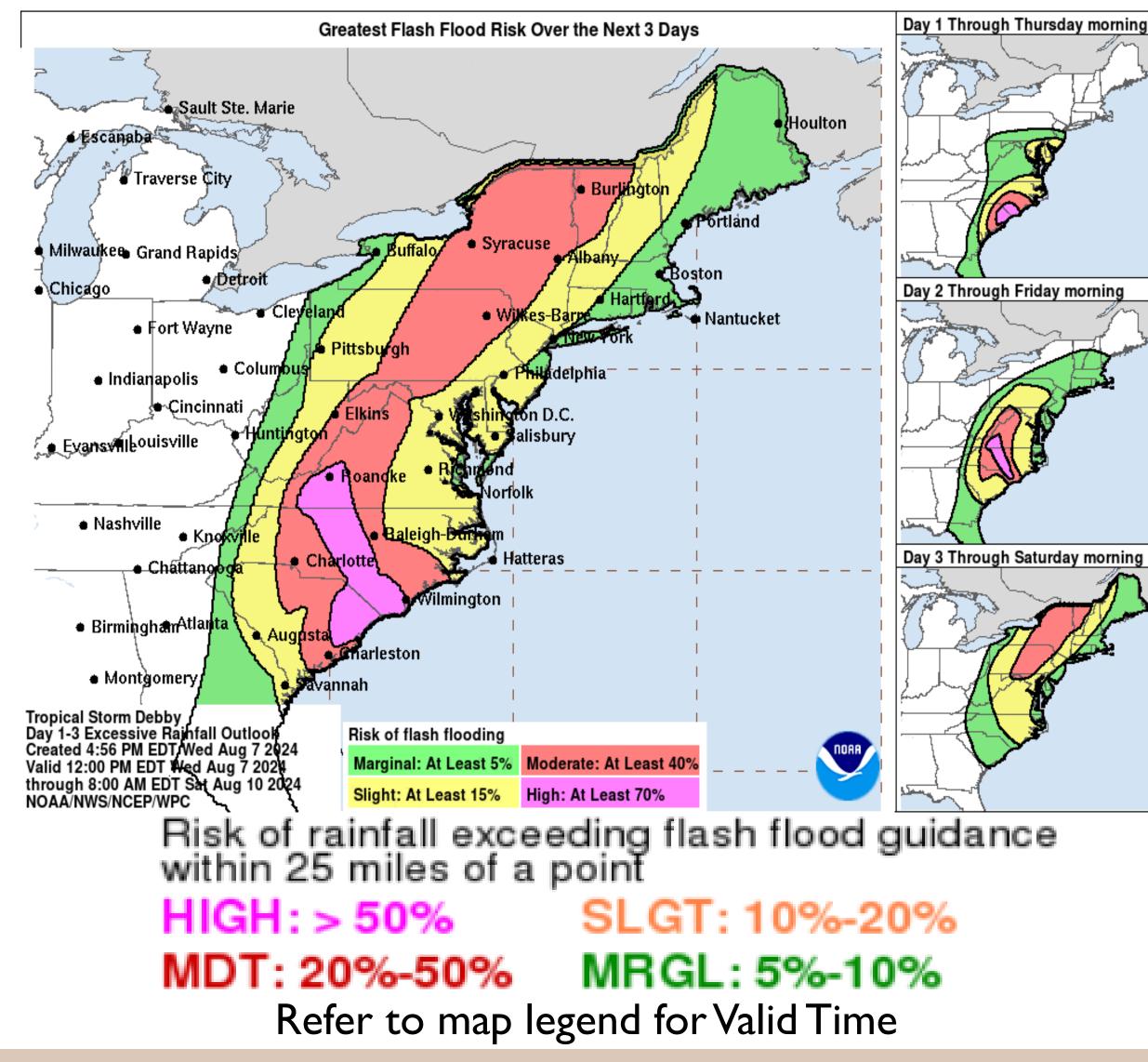
Tropical Storm Debby

Images from NWS Weather Prediction Center





Tropical Analysis and Forecast Branch **NWS** National Hurricane Center

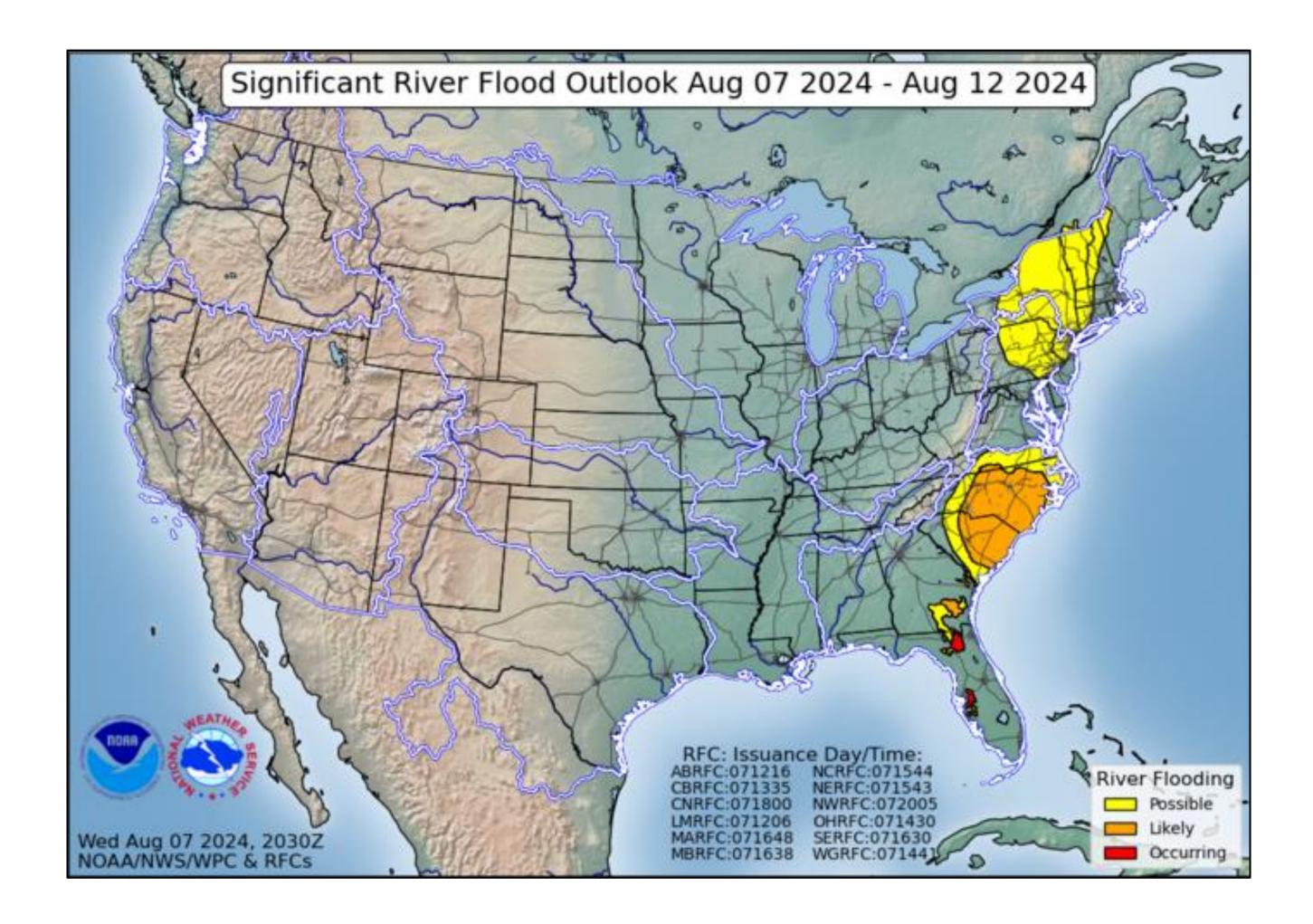






Flood Outlook

Tropical Storm Debby





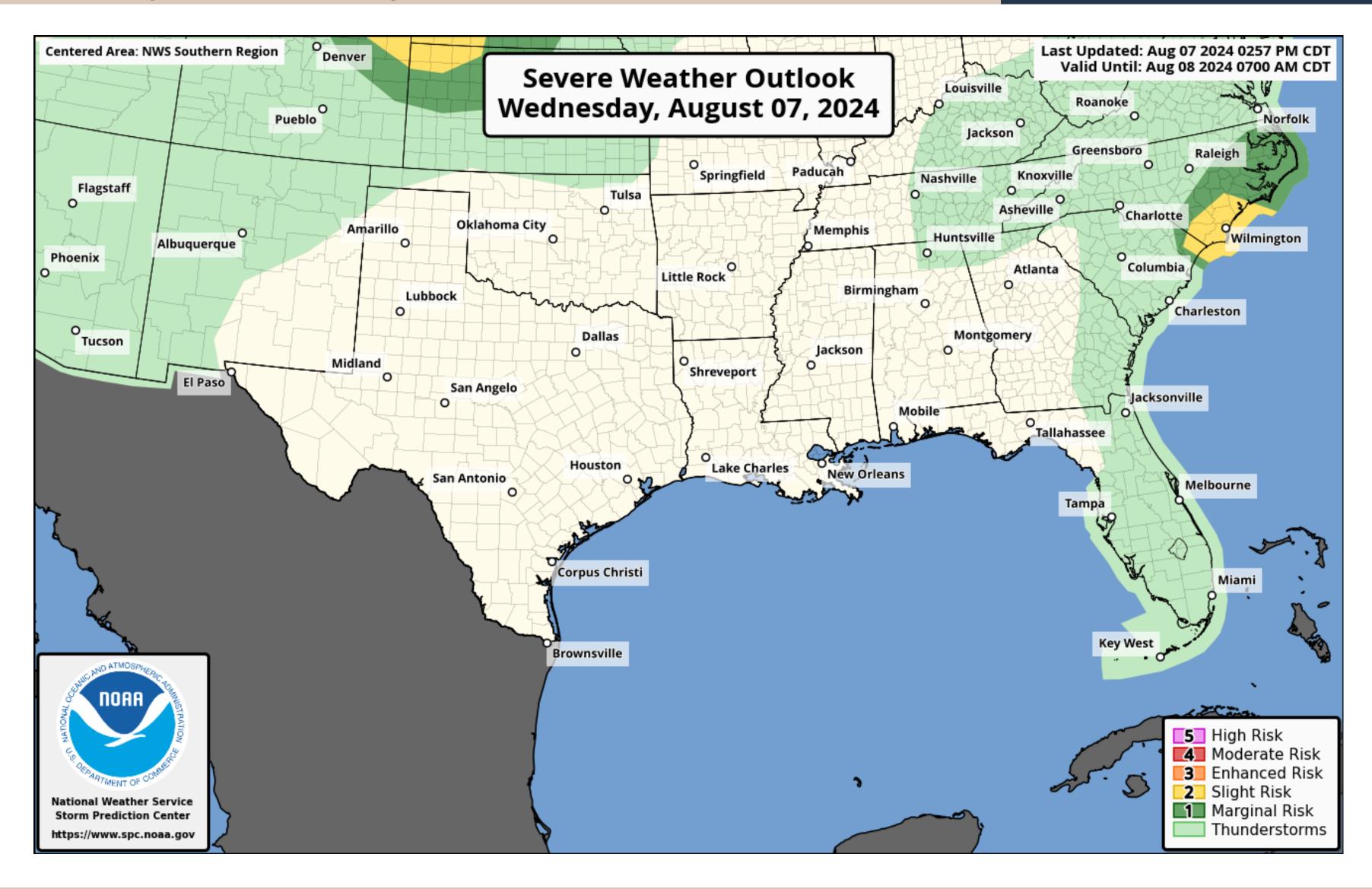
Tropical Analysis and Forecast Branch NWS National Hurricane Center



Tornado Outlook – Day I

Tropical Storm Debby

Image from NWS Storm Prediction Center



8/7/2024 5:55 PM



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Key Messages

Tropical Storm Debby

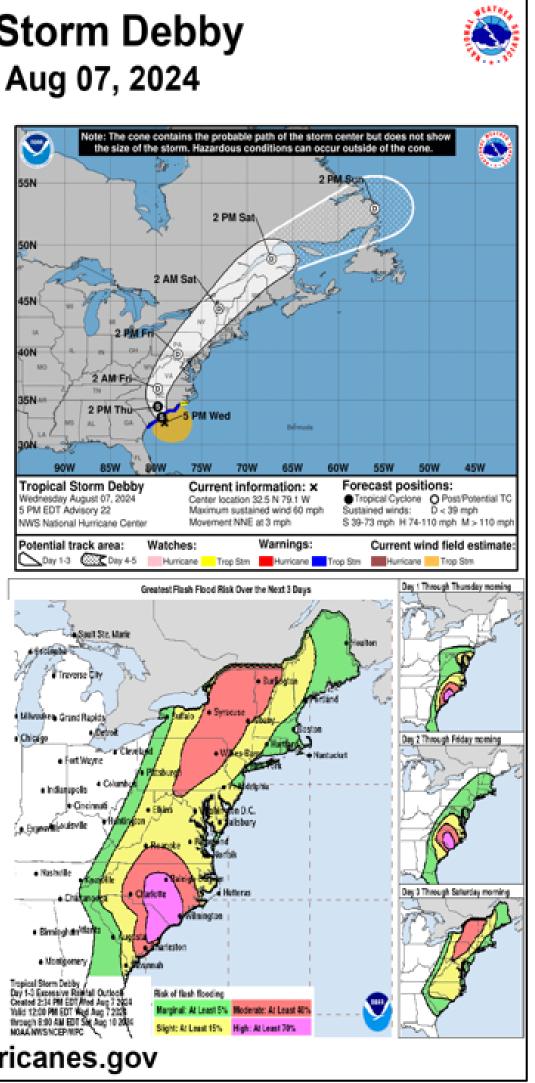


Key Messages for Tropical Storm Debby Advisory 22: 5:00 PM EDT Wed Aug 07, 2024

1. Heavy rainfall across portions of the Carolinas is expected to persist through Thursday along with areas of considerable flooding. Expected 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 affect portions of the South Carolina and North Carolina coast through Thursday. Tropical storm warnings and watches are in effect for portions of that area.

3. Coastal flooding due to storm surge is likely along portions of the South Carolina and North Carolina coastline through Thursday.



For more information go to hurricanes.gov



Marine Key Messages:

- Tropical Storm Debby peak winds and seas are likely ongoing.
- Landfall will like occur Thursday morning over South Carolina
- Marine conditions will like begin to improve Thursday night into Friday morning.





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



TIME of NEXT NHC Advisory: 3 UTC: II PM EDT

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

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

NHC_TAFB



TROPICAL STORM DEBBY BRIEFING





