



Tropical Storm Debby

Considerable Flooding Still Possible in Some Areas
for northeast South Carolina and southeast North Carolina

Briefing #9 - 7:45 AM EDT
Wednesday, August 7, 2024

What has changed:

- Any additional rainfall amounts have been lowered some, considerable flooding is still possible
- Some adjustments to the peak wind gusts





Key Points

Tropical Storm Debby

- Tropical Storm Debby will slowly move just off the South Carolina coast today, then make landfall along the South Carolina tonight. Debby will begin to pick up forward speed late Thursday and Friday.
- The very slow progression of the storm will result in heavy rainfall and the potential for **considerable flooding**. In some areas 2 to 5 inches of rain had fallen yesterday, and an additional 4 to 9 inches is possible today into Thursday.
- Tropical storm force winds are also possible, especially along coastal areas and the adjacent Atlantic waters.
- Storm surge inundation of 2 to 4 feet south of Cape Fear, and 1 to 3 ft north of Cape Fear is possible, especially during high tide tonight and Thursday morning.
- The threat for isolated tornadoes will exist today and tonight, then the threat will gradually shift into eastern North Carolina and southeastern Virginia during Thursday.

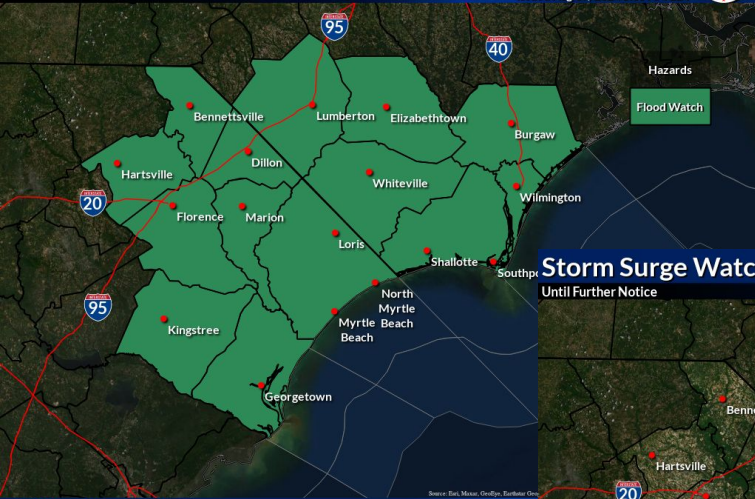


Watches and Warnings

Tropical Storm Debby

Flood Watch Through Friday Morning

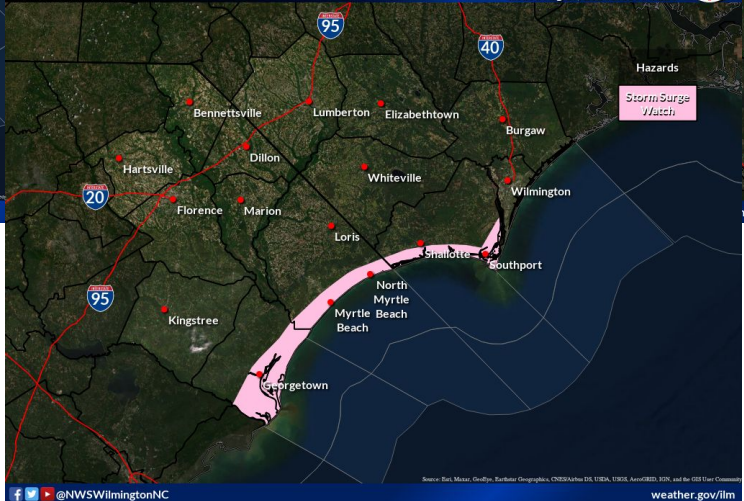
Weather Forecast Office
Wilmington, NC
Issued Aug 07, 2024 5:35 AM EDT



Storm Surge Watch

Until Further Notice

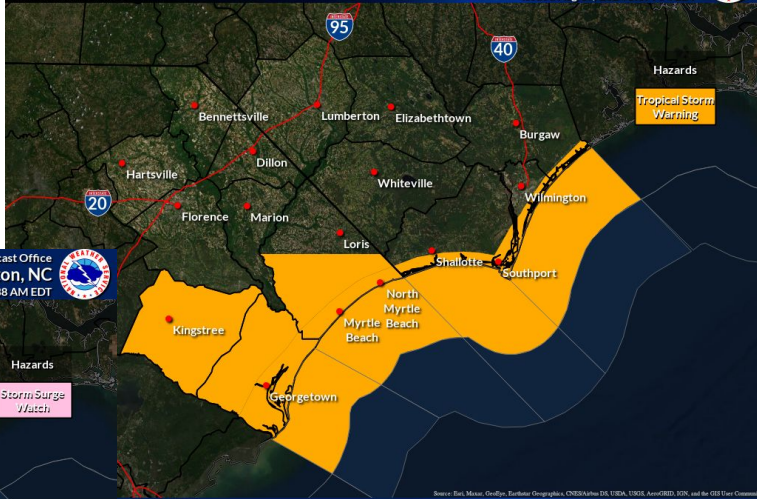
Weather Forecast Office
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Tropical Storm Warnings

Until Further Notice

Weather Forecast Office
Wilmington, NC
Issued Aug 07, 2024 5:37 AM EDT








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Situation Overview

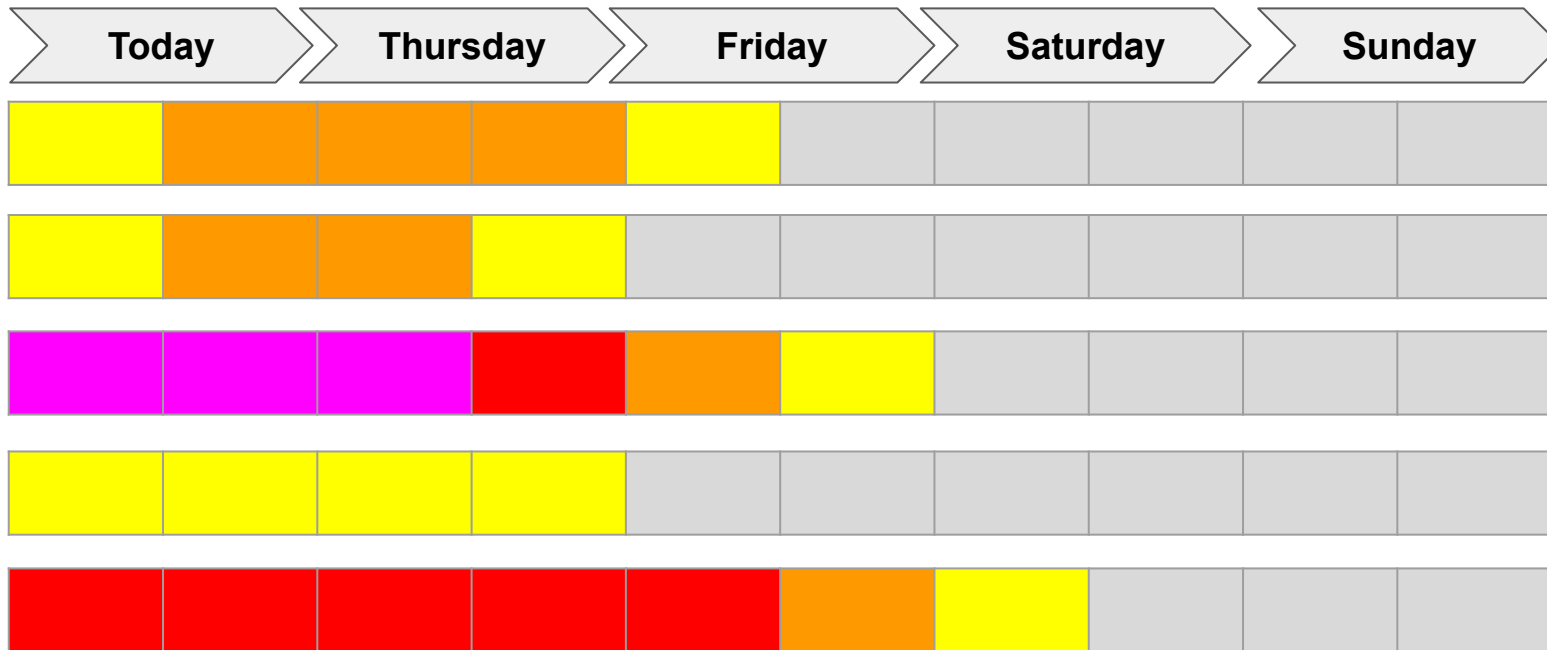
Tropical Storm Debby

Hazard	Impacts	Location	Timing
 Wind	Potential exists for tropical storm force winds, with some minor impacts possible.	Especially along the coast of Brunswick, Horry, & Georgetown Counties - and across the adjacent coastal waters	Today into Thursday
 Storm Surge & Inundation	Some storm surge with 2-4 feet above ground level inundation possible	Highest surge along coastal Brunswick, Horry, and Georgetown counties (2-4 ft). Pender and New Hanover (1-3 ft).	Especially with each high tide Wednesday through Thursday night
 Flooding Rain	Considerable flooding is still possible , which would cause some road damage. Driving will remain hazardous as a result.	All of northeast South Carolina and southeast North Carolina	Today through Thursday
 Tornado	Isolated tornadoes possible	Portions of northeast SC and southeast NC. Risk area shifting away from the area during Thursday.	Today into Thursday
 Marine	Hazardous winds and seas. Beaches will experience rough surf and strong rip currents	All coastal waters and beaches	Today through Friday morning



Threat Levels - Max Values for the Storm

Tropical Storm Debby



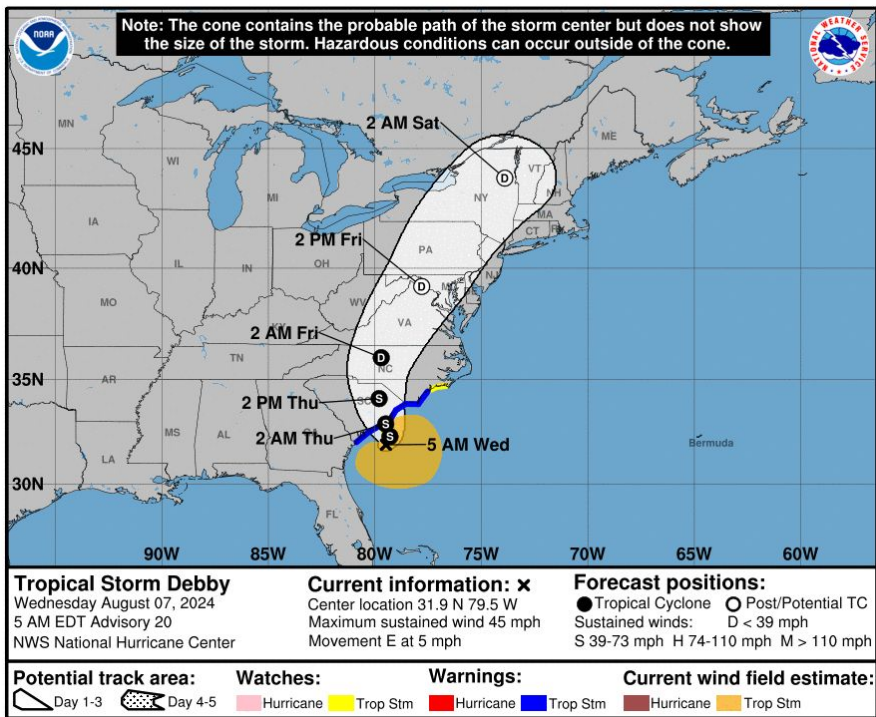
Effects and Impacts Legend

- Little to No Impact
- Minor Impact
- Moderate Impact
- High Impact
- Extreme Impact



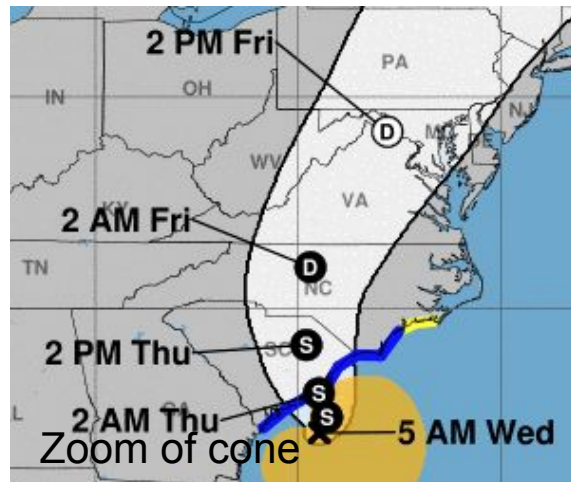
Situation Overview

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 will move slowly just off the South Carolina coast today, then make landfall along the South Carolina coast late tonight.
- Debby will then begin to pick up speed late Thursday and Friday.



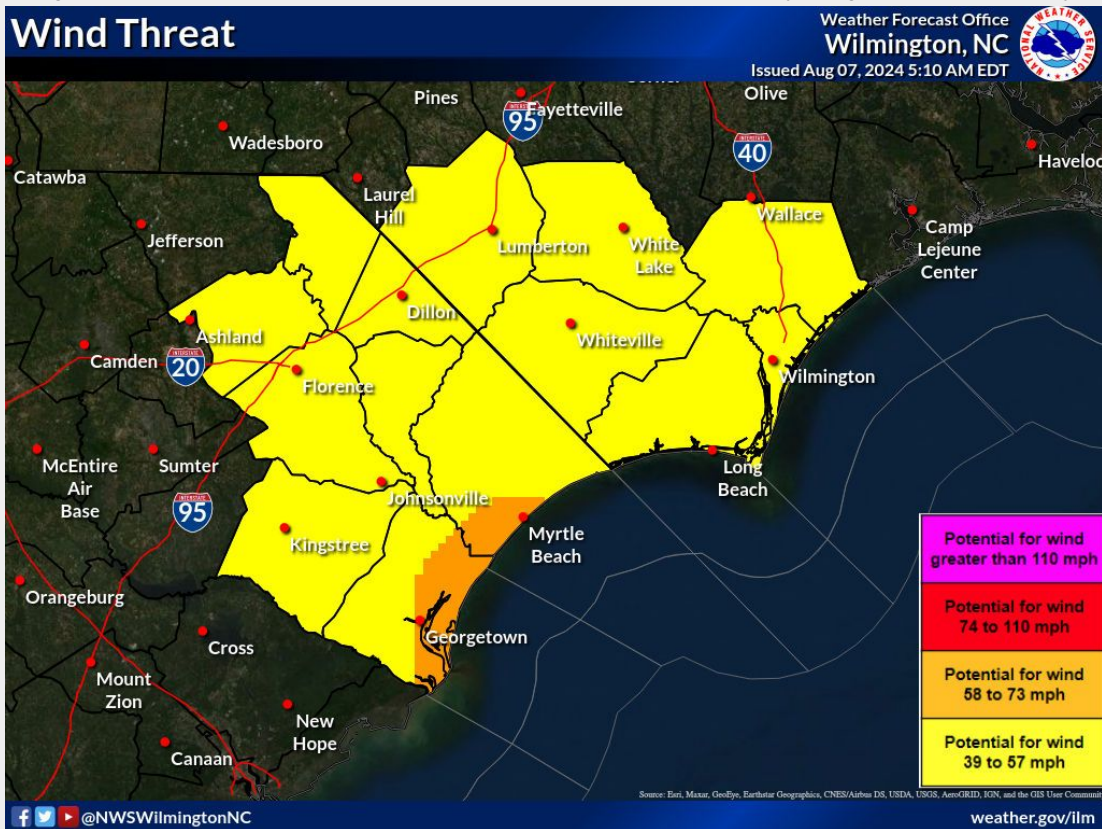


Wind Threat / Potential Impact

Tropical Storm Debby

*This graphic accounts for the latest forecast & includes a reasonable safety margin to account for any forecast deviation. It represents the potential impacts to prepare for.

Wind Threat



There is a potential for:

- There is a greater wind threat along the coastal areas of northeast SC generally from near Myrtle Beach toward Georgetown, otherwise mostly limited wind impacts are expected.
- Given a saturated ground in some areas, some trees may become uprooted, potentially causing some power outages.
- Gusty winds are possible today into Thursday.



Peak Wind Gust Swath

Tropical Storm Debby

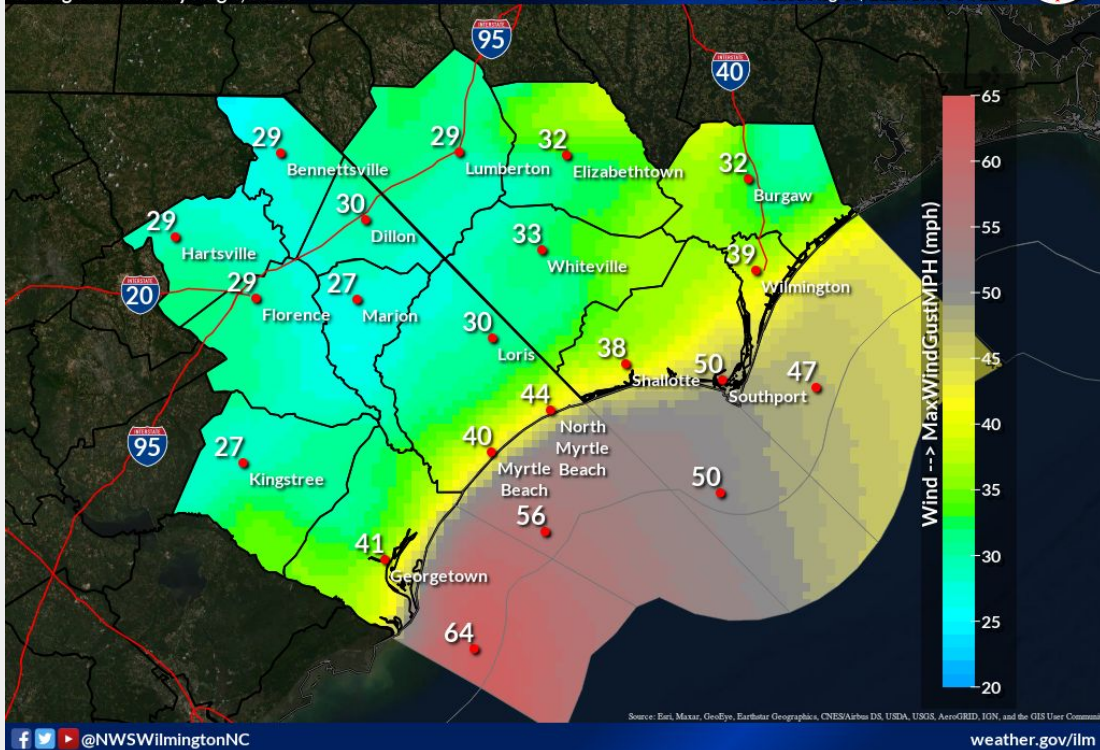
Note: These winds are highly dependent on the storm's track and intensity. A small change could result in significant differences in wind speed and impacts.

Peak Wind Gusts (mph)

Through 8 AM Friday Aug 9, 2024

Weather Forecast Office
Wilmington, NC

Issued Aug 07, 2024 5:48 AM EDT

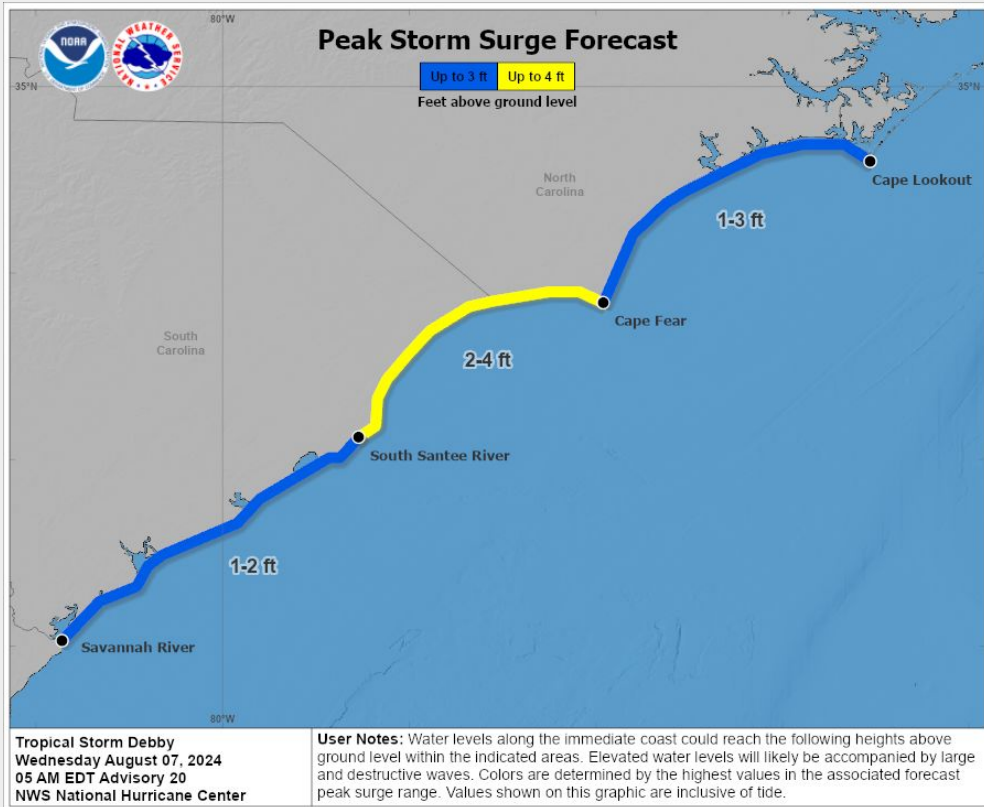


- The potential wind gusts will be highly dependent on the track and intensity of the storm, thus changes are likely as the forecast is updated.
- Currently, the highest gusts are expected along coastal areas of Brunswick, Horry, and Georgetown Counties with gusts of 40 to 50 mph there and gusts of 50 to 65 mph across the adjacent Long Bay waters.
- Elsewhere, gusty winds generally in the 30-35 mph range are possible.



Peak Storm Surge

Tropical Storm Debby



- A peak storm surge of 2 to 4 feet of inundation above ground level is possible from Cape Fear southward, and 1 to 3 ft north of Cape Fear to Surf City, NC.
- The threat of surge will increase, especially with high tide tonight, and possibly again during high tide Thursday morning.
- The storm surge could impact some roads prone to coastal flooding, as well areas where the shoreline has been weakened from previous storms along the oceanfront.

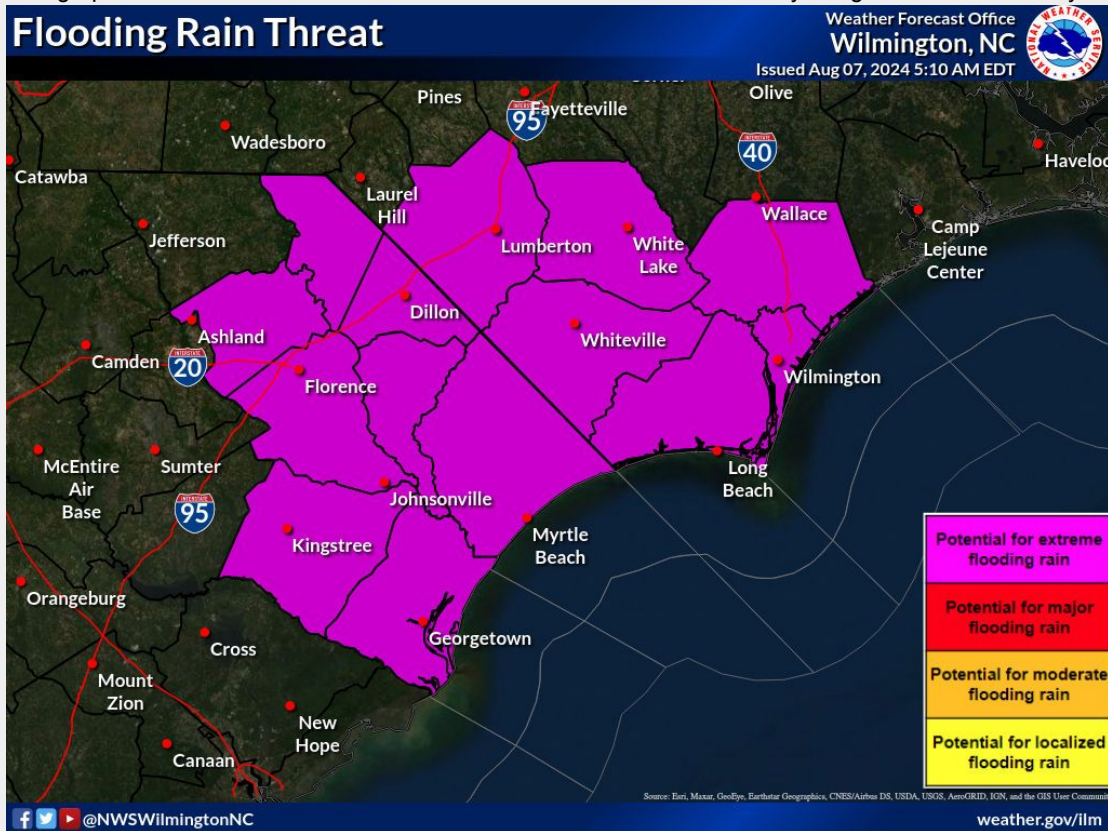


Inland Flooding Impacts

Tropical Storm Debby

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Flooding Rain Threat

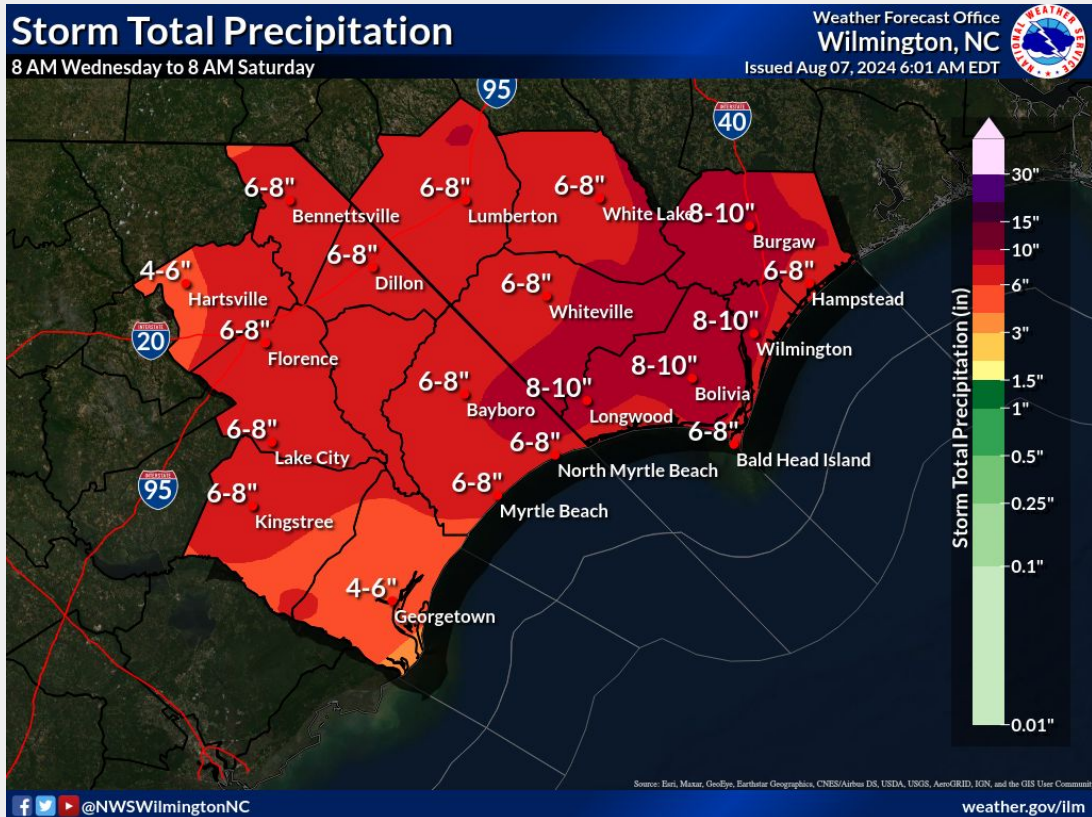


- There is still a **potential for considerable flooding rainfall** across all areas of northeast SC and southeast NC, especially today into Thursday.
- Some areas could see some road damage. Some structures in low-lying areas could also become flooded.
- **Do not drive across flooded areas** - the current may sweep your vehicle off the road, or the weight of your vehicle may collapse the road.



Additional Rainfall

Tropical Storm Debby



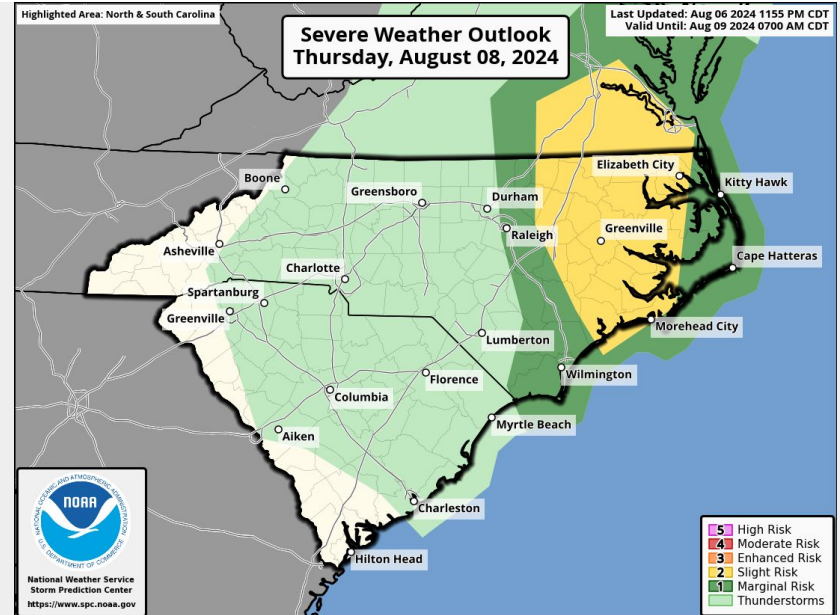
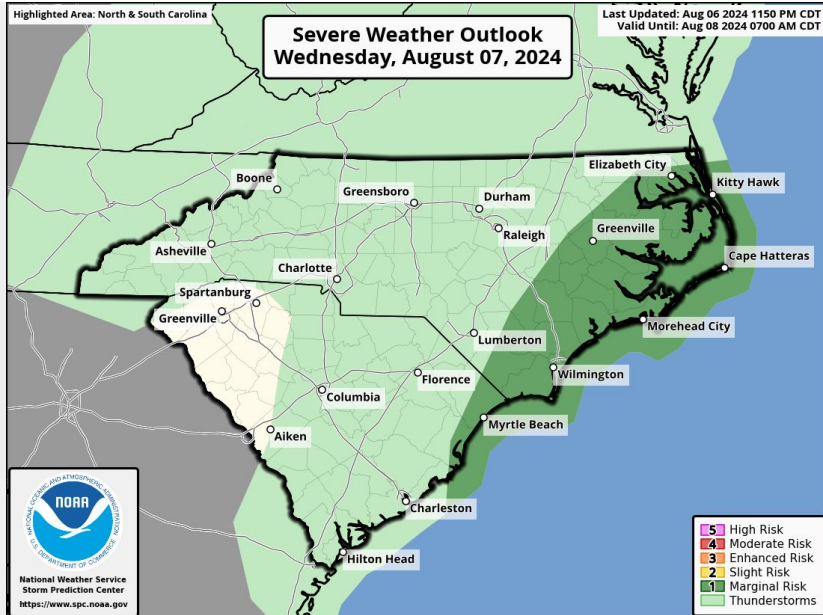
- Rainfall amounts of 4 to 9 inches are still possible today into Thursday in addition to the 2 to 5 inches that occurred yesterday.
- The threat for flash flooding will be greatest today into Thursday, with conditions improving thereafter.
- Expect flood waters to continue pooling in some areas, especially low-lying areas, well after the rain comes to an end.



Tornado Potential

Tropical Storm Debby

- There is a threat of tornadoes today and tonight, generally east of a Lumberton, NC to Georgetown, SC line.
- The risk of tornadoes will shift into eastern NC and southeast VA during Thursday.





Summary

Tropical Storm Debby

Confidence is high regarding the progression of Debby, the potential for considerable flooding, and isolated tornadoes

Confidence is moderate regarding the exact extent of wind and surge impacts

- **Considerable flooding** is still possible today into Thursday. Do not attempt to drive across flooded areas as your vehicle may become swept off the roadway.
- Tropical Storm force winds are possible, especially along coastal areas and the adjacent Atlantic waters.
- Isolated tornadoes are possible today and tonight, with the threat shifting away from the area during Thursday.
- Storm surge inundation of 2 to 4 ft is possible from Cape Fear southward, and 1 to 3 ft is possible north of Cape Fear, especially with high tide tonight and Thursday morning.



Local Resources

Tropical Storm Debby

Next briefing Wednesday by around:
6:00 PM EDT
Method: Email



Web: weather.gov/ilm



Phone: 910-762-4289



E-mail: nws.ilm.operations@noaa.gov



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