



Tropical Storm Debby Briefing

6:00 AM EDT

Wednesday, Aug 7, 2024



Situation Overview

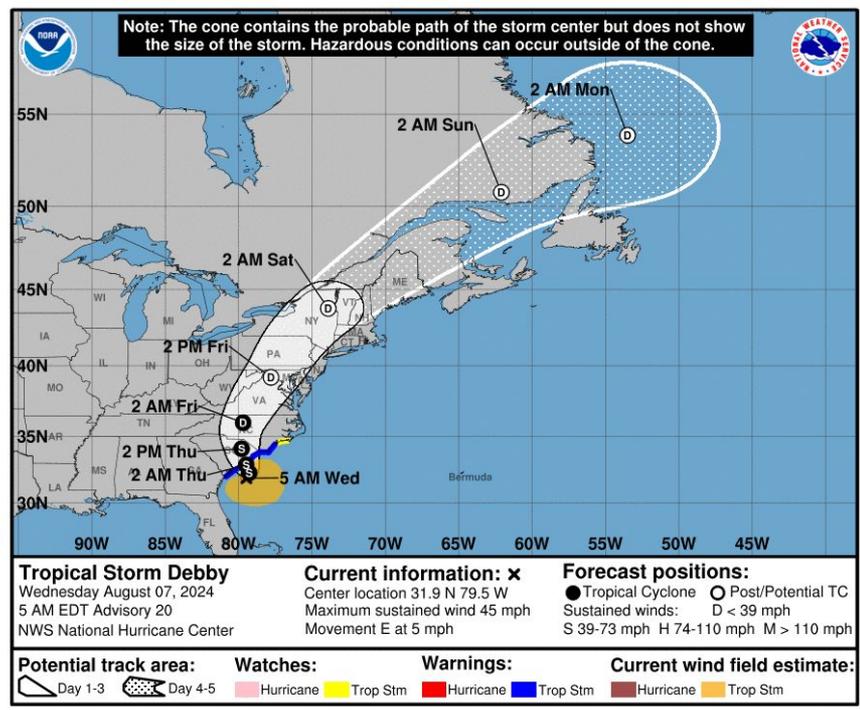
Tropical Storm Debby

- **Flash Flooding** threat mainly focused across SE SC today. Rainfall amounts much lower across SE GA.
- **Potential for Tropical Storm Wind/Wind Gusts** confined to mainly SC coastal areas.
- **River Flooding:** Long term river flooding will likely inhibit recovery efforts at least into next week, possibly beyond
- Little to no impact expected from storm surge or tornadoes through the rest of the event.



Situation Overview

Tropical Storm Debby



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

- Center of Debby remains just offshore today, moving very slowly.
- Debby still expected to make **second landfall along the SC coast early Thursday.**
- Debby not expected to reach hurricane strength before second landfall**



Threat Levels - Max Values for Debby

Tropical Storm Debby

Today

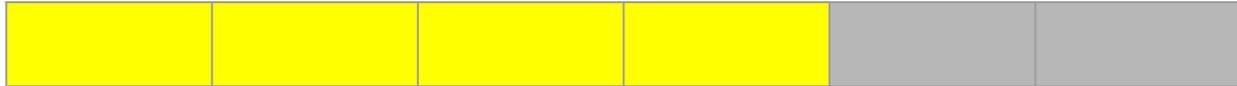
Thursday

Friday

Rain



Surge



Wind



Tornado



Marine



Effects and Impacts Legend

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



Situation Overview

Tropical Storm Debby

Hazard	Impacts	Location	Timing
 Flooding Rain	Periods of heavy rainfall could exacerbate ongoing flooding	Southeast South Carolina, with the greatest threat along and north of I-26	Into Thursday
 Storm Surge & Inundation	Up to 1-2 ft of inundation will bring little to no direct impacts	Southeast South Carolina coastline	Through the Thursday evening high tide cycle
 Wind	Significant wind impacts, including scattered power/comms outages, remain possible	Within the Tropical Storm Warning for coastal SC	Into Thursday
 Tornado	Tornado threat has diminished	Across the area	
 Marine	Winds and Seas dangerous to all mariners	All Atlantic waters	Through tonight (GA) and through Thursday (SC)



Additional Rainfall through 2 AM Saturday

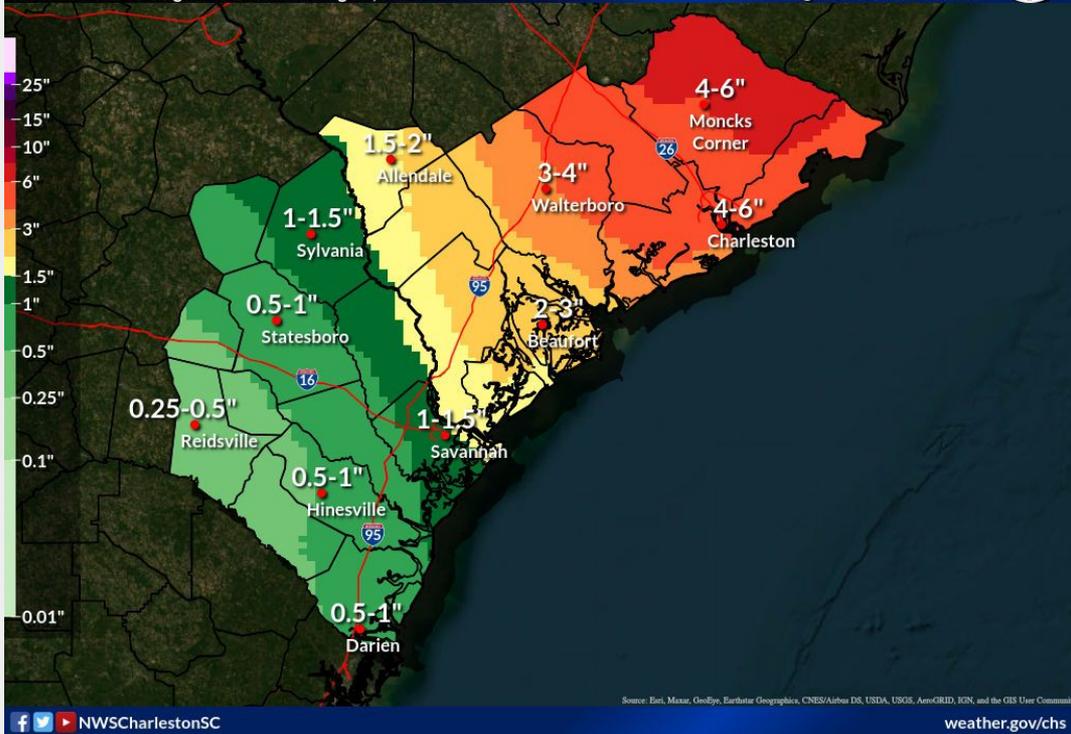
Tropical Storm Debby

3-Day Precipitation Forecast

Valid 2 AM Wed Aug 07 to 2 AM Sat Aug 10, 2024

Weather Forecast Office
Charleston, SC

Issued Aug 07, 2024 5:41 AM EDT



Additional Rainfall (through 2AM Sat)

SC: 2" to 6", local up to 8"

GA: Up to 2"

NOTE: Successive rainfall forecasts now appear lower due to rainfall already having fallen. Really "additional" event rainfall



Inland Flooding Impacts

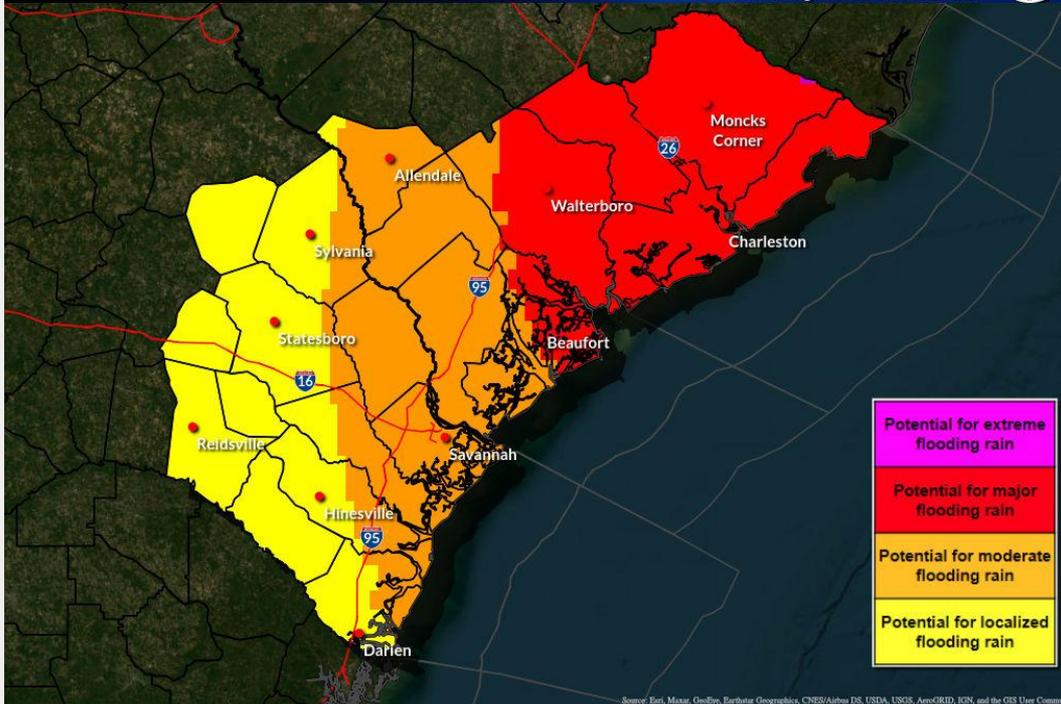
Tropical Storm Debby

Flooding Rain Threat

Weather Forecast Office

Charleston, SC

Issued Aug 07, 2024 5:10 AM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NWSCharlestonSC

weather.gov/chs

- Additional heavy rainfall threat focused over SE SC through Thursday.
- Heavy rainfall threat is greatly diminished across SE GA.
- Impacts:
 - Any heavy rainfall will exacerbate ongoing flooding.
 - Considerable flash flooding remains possible, especially for urban areas.

Last updated: 8/7/2024 6 AM EDT

National Weather Service - Charleston, SC



River Flood Timeline

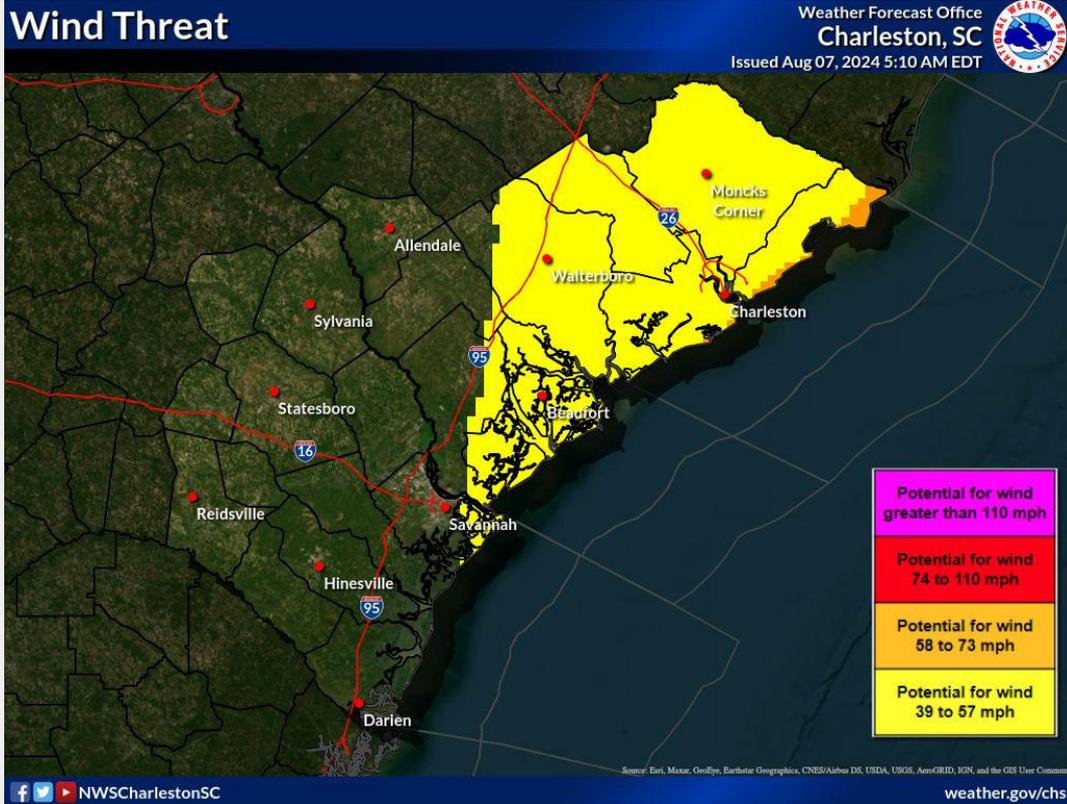
Tropical Storm Debby

River Forecast Point	Est Time River Hits Flood Stage	Forecast Crest Height	Forecast Crest Category	Time of Forecast Crest
Santee River at Jamestown	In flood	16.5 ft	MINOR (high end)	Thursday evening
Edisto River at Givhans Ferry	This evening	15.2 ft	MAJOR	Sunday
Savannah River at Burtons Ferry	Late tonight	16.5 ft	MINOR	Thursday evening
Savannah River at Clyo	In flood	15.2 ft	MODERATE	Friday afternoon
Ogeechee River at Midville	Thursday afternoon	6.0 ft	MINOR	Thursday afternoon
Ogeechee River at Rocky Ford	This morning	13.5 ft	MINOR	This evening
Ogeechee River at Eden	In flood	14.9 ft	MODERATE	Early saturday morning
Canoochee River at Claxton	In flood	17.1 ft	MAJOR	This afternoon
Ohooppee River at Reidsville	In flood	18.1 ft	MODERATE	Thursday afternoon



Wind Threat / Potential Impact

Tropical Storm Debby



- Tropical Storm winds/wind gusts remain possible along the South Carolina coast through Wed/Wed night
- Impacts:
 - Isolated to scattered power and communications outages
 - Downed trees and/or large tree limbs, could block roads
 - Stronger winds over bridges

Last updated: 8/7/2024 6 AM EDT

National Weather Service - Charleston, SC

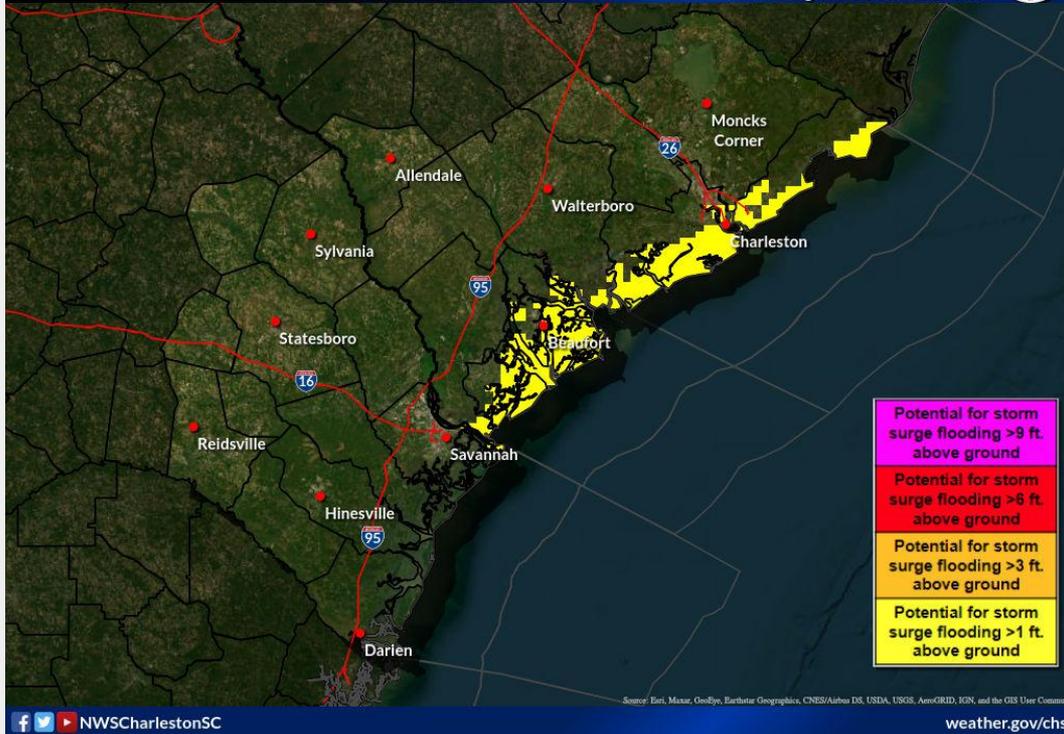


Potential Storm Surge Impacts

Tropical Storm Debby

Storm Surge Threat

Weather Forecast Office
Charleston, SC
Issued Aug 07, 2024 5:10 AM EDT



- The combination of elevated tides and freshwater influence could bring inundation values around 1-2 ft along the SC coast.
- Minimal surge impacts expected.

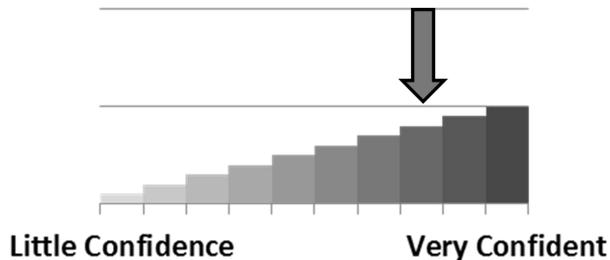


Key Take-Aways

Tropical Storm Debby

- **Considerable flash flooding remains possible mainly across South Carolina.** Any additional rainfall will exacerbate any ongoing flooding.
- **Potential for Tropical Storm Wind/Wind Gusts** now confined to SC counties (especially coastal).
- **River Flooding:** Long term River Flooding will likely inhibit recovery efforts at least into next week, possibly beyond.

Forecast Confidence



Overall Confidence in Event - HIGH

Confidence for Individual Impacts - MODERATE



Local Resources

Tropical Storm Debby

Next Briefing:
Wednesday 11:30 AM
Method: webinar



WWW

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