



# Tropical Storm Debby Briefing

6:00 PM EDT

Tuesday, Aug 6, 2024

**Threat for Life Threatening Flooding has Decreased**



# Situation Overview

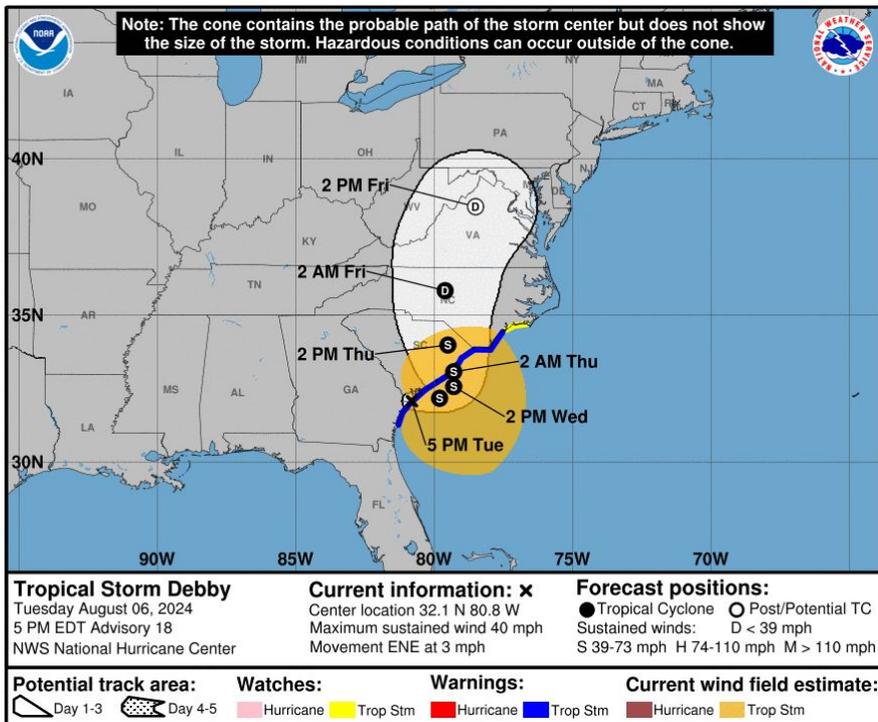
## Tropical Storm Debby

- **Potential for dangerous flooding/flash flooding decreasing.** However, many locations still flooded. Additional rainfall could cause additional flooding, or exacerbate current flooding
- **Storm Surge Warning has been discontinued,** but minor coastal flooding impacts still possible for the SC coast, during evening high tides
- **Potential for Tropical Storm Wind/Wind Gusts** mainly confined to SC counties (especially coastal) and GA coastal counties
- **River Flooding:** Long term River Flooding will likely inhibit recovery efforts at least into next week, possibly beyond



# Situation Overview

## Tropical Storm Debby



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

- **Debby currently emerging off Chatham County, GA coast, expected to slowly move east into the Atlantic waters through early Wednesday**
- **Debby still expected to turn north late Wednesday, with **second landfall along the SC coast early Thursday****
- **Debby not expected to reach hurricane strength before second landfall**



# Threat Levels - Max Values for Debby

Hurricane Debby

Tonight

Wednesday

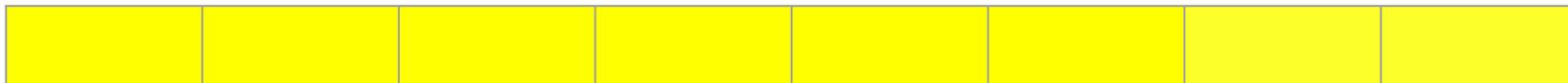
Thursday

Friday

Rain



Surge



Wind



Tornado



Marine



### Effects and Impacts Legend

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



# Situation Overview

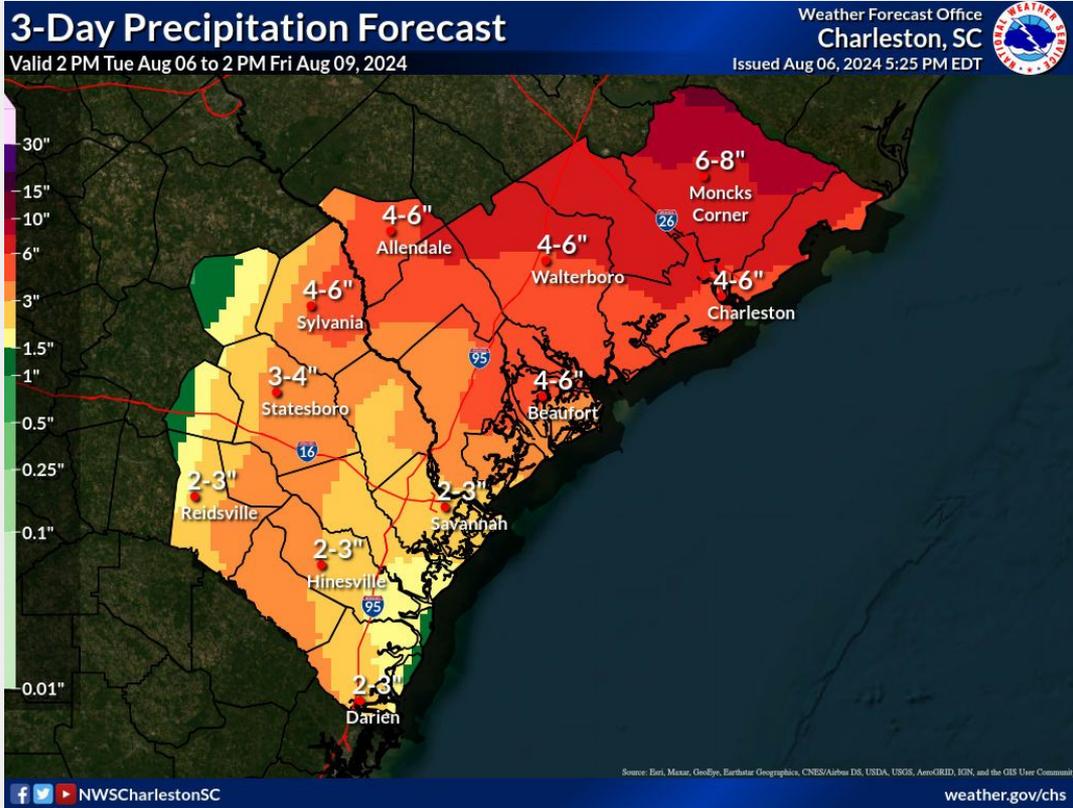
## Tropical Storm Debby

Hazard	Impacts	Location	Timing
 <b>Flooding Rain</b>	Potential for dangerous/life threatening flooding has decreased	All areas, with greatest flooding threat over SC counties	Tonight through Thursday
 <b>Storm Surge &amp; Inundation</b>	Minimal Surge impacts now expected, with 1-2 feet inundation AGL possible	Highest threat SC coast	Greatest threat tonight through early Thursday
 <b>Wind</b>	Significant wind impacts, including scattered power/comms outages, possible	Within the Tropical Storm Warning area, especially southeast SC	Especially later Wednesday through early Thursday
 <b>Tornado</b>	Isolated tornadoes could produce locally enhanced damage	Highest chances over the Charleston Tri-County	Tonight through Wednesday
 <b>Marine</b>	Winds and Seas dangerous to all mariners	All Atlantic waters	Through Wednesday (GA) and through Thursday (SC)



# Additional Rainfall through 2 PM Friday

Tropical Storm Debby



## Additional Rainfall (through 2PM Fri)

SC: 3" to 6", local up to 8"

GA: 2" to 4", local up to 6"

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

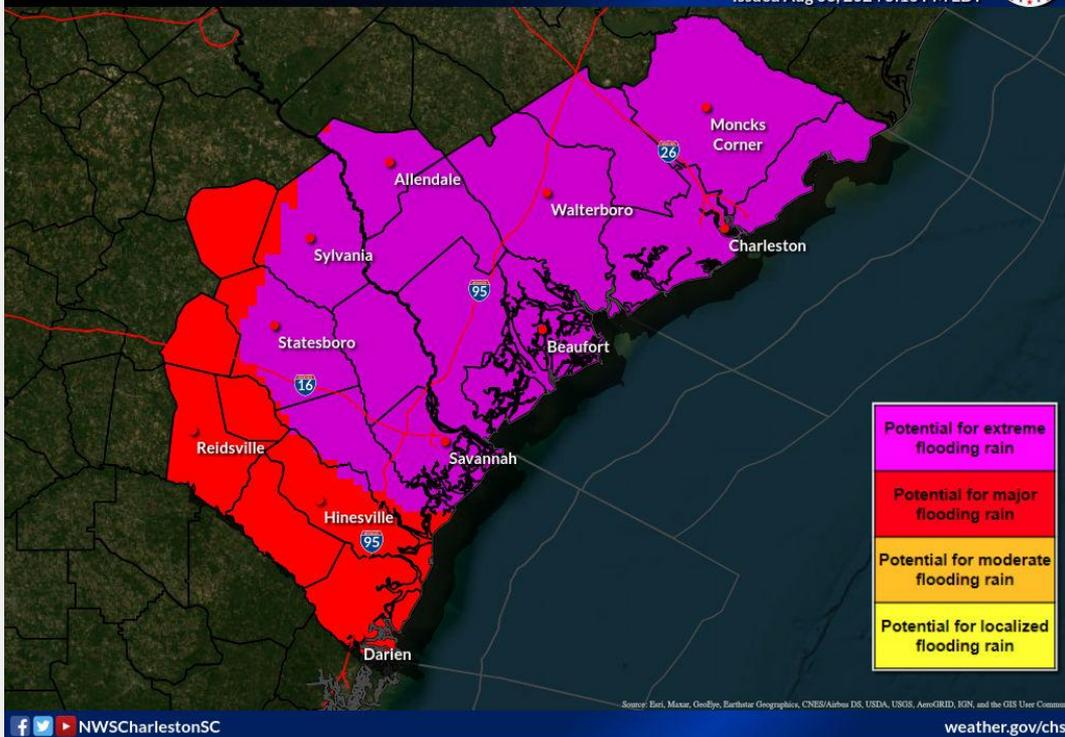


# Inland Flooding Impacts

Tropical Storm Debby

## Flooding Rain Threat

Weather Forecast Office  
Charleston, SC  
Issued Aug 06, 2024 5:10 PM EDT



There is a potential for:

- Potential for additional significant flooding due to already flooded/saturated ground
- Timing:  
SC: through Thursday  
GA: through Wednesday
- Impacts:
  - Numerous homes & structures flooded, damage to roadways (*washouts*)
  - Small stream/creek flooding
  - Longer term major River Flooding



# 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	16.80 ft	<b>MINOR (high end)</b>	Thursday afternoon
Edisto River at Givhans Ferry	Wednesday evening	15.50 ft	<b>MAJOR</b>	Saturday morning
Savannah River at Burtons Ferry	Not in Flood	13.80 ft	<b>Action (near Minor)</b>	Thursday evening
Savannah River at Clyo	In Flood	15.90 ft	<b>MODERATE</b>	Thursday evening
Ogeechee River at Midville	Wednesday evening	6.2 ft	<b>MINOR</b>	Early Friday morning
Ogeechee River at Rocky Ford	Not in Flood	11.50 ft	<b>Action</b>	Thursday morning
Ogeechee River at Eden	Early Wednesday morning	16.00 ft	<b>MAJOR</b>	Early Saturday morning
Canoochee River at Claxton	In Flood	16.00 ft	<b>MAJOR</b>	Wednesday afternoon
Ohooppee River at Reidsville	In Flood	18.70 ft	<b>MODERATE</b>	Thursday evening

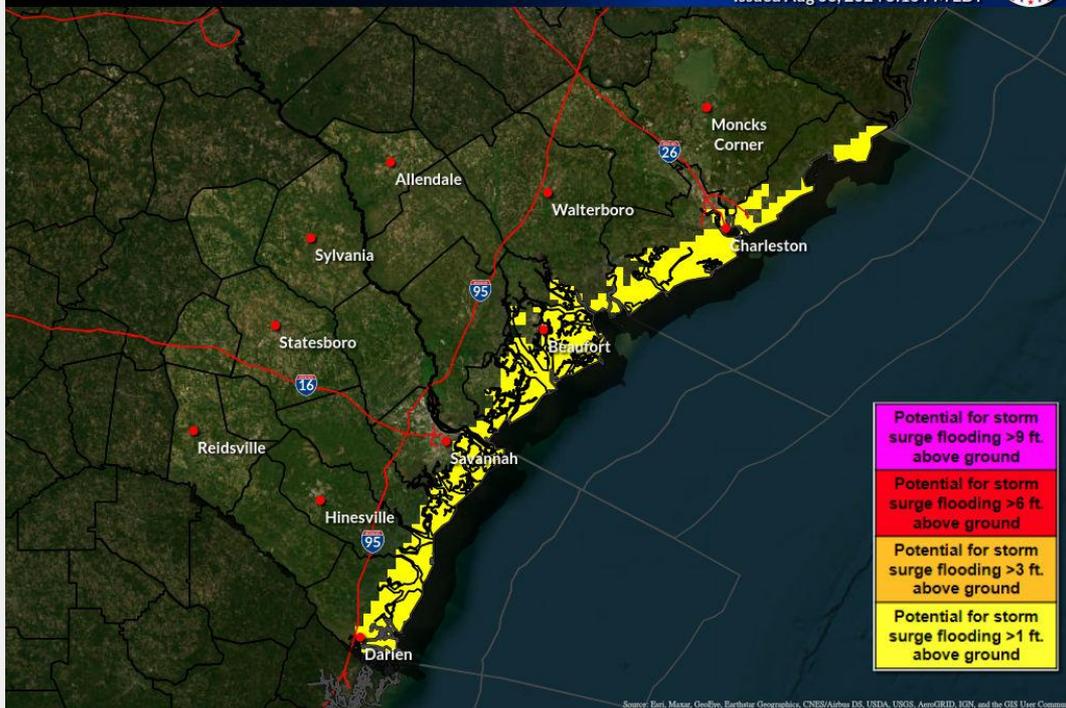


# Potential Storm Surge Impacts

Tropical Storm Debby

## Storm Surge Threat

Weather Forecast Office  
Charleston, SC  
Issued Aug 06, 2024 5:10 PM EDT



NWSCharlestonSC

weather.gov/chs

There is a potential for:

- Potential for 1-2 Feet of Storm Surge Inundation over normally dry tidal/near tidal region
- Timing: Mainly SC coast tonight through early Thursday, during evening high tides
- Impacts:
  - Some flooding of coastal/near coastal streets and roadways, especially low lying ones
  - Minor beach erosion



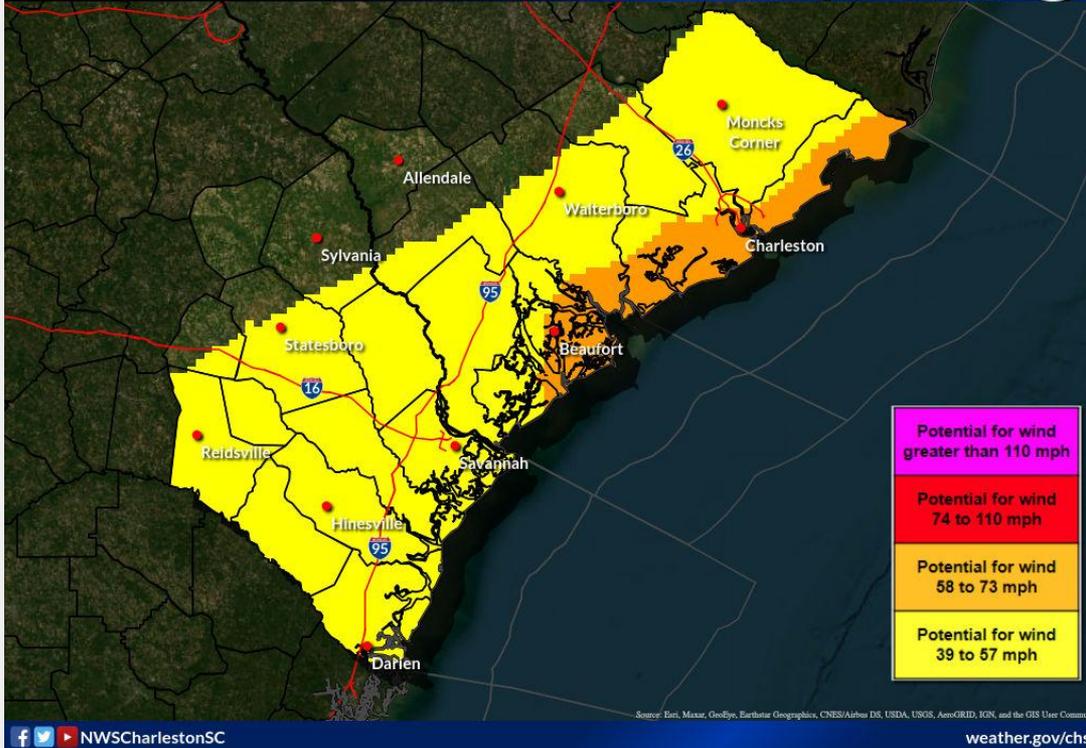
# Wind Threat / Potential Impact

Tropical Storm Debby

## Wind Threat

Weather Forecast Office  
Charleston, SC

Issued Aug 06, 2024 8:11 AM EDT



NWSCharlestonSC

There is a potential for:

- Tropical Storm winds/wind gusts possible, especially coastal areas and/or within rainbands
- Timing: GA: mainly immediate coast, especially tonight  
SC: 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: 8/6/2024 6 PM EDT

National Weather Service - Charleston, SC

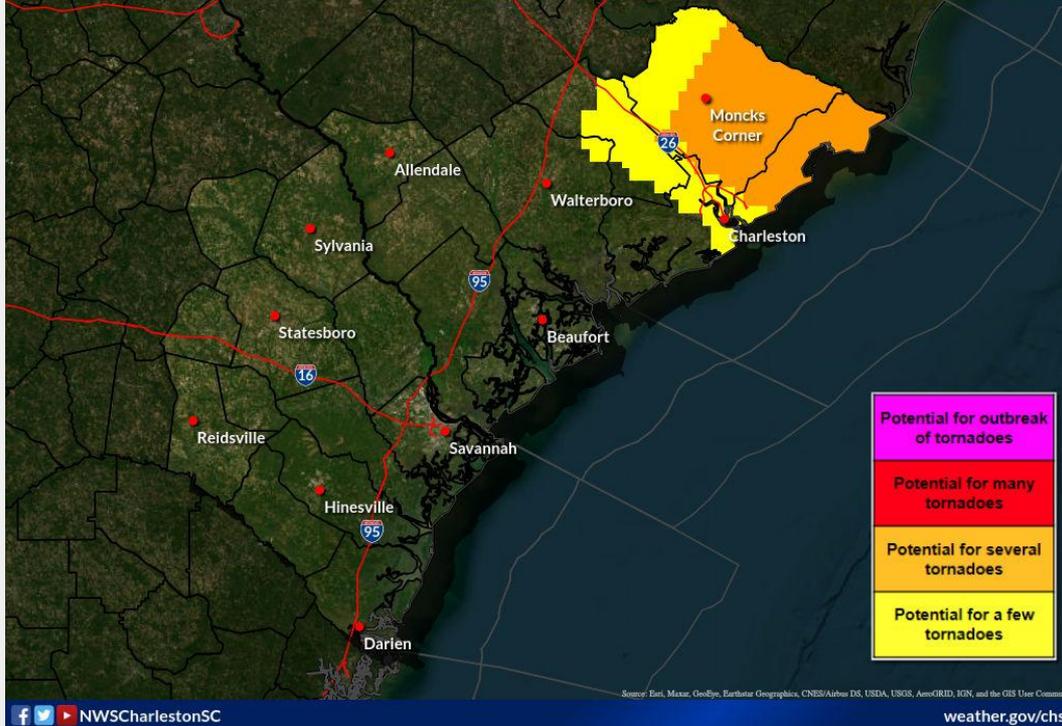


# Potential Tornado Impacts

Tropical Storm Debby

## Tornado Threat

Weather Forecast Office  
Charleston, SC  
Issued Aug 06, 2024 5:10 PM EDT



There is a potential for:

- Isolated tornadoes possible mainly Charleston Tri-County, and within rainbands
  - Generally short-lived, with potential for short warning lead time(s)
- Timing: Tonight through Wednesday night
- Impacts: Locally enhanced damage possible to trees and some structures

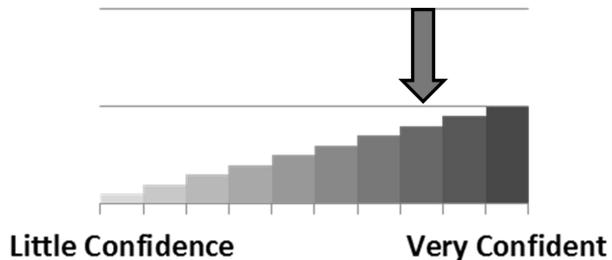


# Key Take-Aways

## Tropical Storm Debby

- **Potential for dangerous flooding/flash flooding is decreasing.** However, many locations still flooded. Additional rainfall could cause additional flooding, or exacerbate current flooding
- **Storm Surge Warning has been discontinued**, but minor coastal flooding still possible for the SC coast during evening high tides
- **Potential for Tropical Storm Wind/Wind Gusts** mainly confined to SC counties (especially coastal) and GA coastal counties
- **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 12:00 AM  
Method: email



WWW

**Web:** [weather.gov/chs](https://weather.gov/chs)



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