

...NWS Damage Survey Summary for Debby Tornado Events...

.Isle of Palms...

Rating: EF1
Estimated Peak Wind: 87 mph
Path Length /statute/: 0.72 miles
Path Width /maximum/: 75 yards
Fatalities: 0
Injuries: 0

Start Date: 08/05/2024
Start Time: 09:33 PM EDT
Start Location: 3 WSW Wild Dunes / Charleston County / SC
Start Lat/Lon: 32.7892 / -79.7773

End Date: 08/05/2024
End Time: 09:37 PM EDT
End Location: 3 WSW Wild Dunes / Charleston County / SC
End Lat/Lon: 32.7972 / -79.785

Survey Summary:

A brief tornado, associated with an outer rain band from Tropical Storm Debby, moved onshore near 25th Ave where it did minor roof damage to one house and also pulled the front door out the frame. It continued north-northwest along 25th Ave, between Palm Blvd and Hartnett Blvd it pulled out a few windows and snapped and uprooted some trees. As it moved just north of Hartnett Blvd, it removed the shingles from a portion of the roofs from a few homes. Beyond this point, the tornado curved a bit more northwest and snapped a few more trees and it began lifting near Waterway Blvd and 24th Ave. The tornado continued northwest and dissipated within the Intracoastal Waterway. Overall, an estimated 29 homes sustained some level of damage, either directly by the tornado or from trees or large limbs falling on them.

.Edisto Beach...

Rating: EF1
Estimated Peak Wind: 97 mph
Path Length /statute/: 2.89 miles
Path Width /maximum/: 300 yards
Fatalities: 0
Injuries: 0

Start Date: 08/05/2024
Start Time: 09:35 PM EDT
Start Location: 4 S Edisto Island / / SC
Start Lat/Lon: 32.5023 / -80.2962

End Date: 08/05/2024
End Time: 09:45 PM EDT
End Location: 4 SW Edisto Island / Charleston County / SC
End Lat/Lon: 32.525 / -80.3376

Survey Summary:

The tornado, which originated in an outer rain band associated with Tropical Storm Debby over the nearshore Atlantic waters, moved onshore of Edisto Beach, near the intersection of Highway 174 and Palmetto Blvd. At the location it moved onshore, it removed roof decking, roof shingles and siding to several homes. The Enmarket gas station also had some roof damage and some air conditioning units thrown from the roof. The tornado then moved north-northwestward over a marsh region then snapped many hardwood trees and also uprooted some trees along Palmetto Road. From Palmetto Road, the tornado continued on a northwest path crossing over Fishing Creek Drive. At this location the tornado did considerable damage to several homes. It removed the entire roof of at least three homes and part of the roof decking to at least one more. The tornado was given its highest EF1 rating in this area, with maximum winds estimated to be around 97 mph. Note: there were likely additional structures damaged along the path, but survey time was limited due to loss of daylight and ongoing rain. Beyond this location, the tornado continued northwest, dissipating over the marshy region north of Palmetto Road.

.Edisto South...

Rating: EF1
Estimated Peak Wind: 90 mph
Path Length /statute/: 0.56 miles
Path Width /maximum/: 100 yards
Fatalities: 0
Injuries: 0

Start Date: 08/05/2024
Start Time: 10:08 PM EDT
Start Location: 6 SSW Edisto Island / / SC
Start Lat/Lon: 32.479 / -80.3307

End Date: 08/05/2024
End Time: 10:11 PM EDT
End Location: 6 SSW Edisto Island / Colleton County / SC
End Lat/Lon: 32.4844 / -80.3378

Survey Summary:

A brief tornado, associated with an outer rain band from Tropical Storm Debby, moved onshore of the south end of Edisto Island near the 2700 block of Point Street, where it snapped and twisted some small trees and removed asphalt shingles to at least one home. The worst damage was on Palmetto Blvd, where one home had a complete collapse of the porch and a significant portion of the roof removed. The tornado continued to move rapidly northwestward crossing around the 2700 block of Myrtle Street, where it did some minor damage to the facia of at least one home. Just northwest, near the 2900 block of Lee Street, at least one home had a corner of the roof removed. The tornado then moved into the southern portion of the Plantation Golf Course where it dissipated.

.Kiawah...

Rating: EF0
Estimated Peak Wind: 85 mph
Path Length /statute/: 1.18 miles
Path Width /maximum/: 150 yards
Fatalities: 0
Injuries: 0

Start Date: 08/05/2024
Start Time: 10:55 PM EDT
Start Location: 1 ESE Kiawah Island / / SC
Start Lat/Lon: 32.6035 / -80.074

End Date: 08/05/2024
End Time: 10:59 PM EDT
End Location: 1 NNW Kiawah Island / Charleston County / SC
End Lat/Lon: 32.6168 / -80.0866

Survey Summary:

A tornado, associated with an outer rain band of Tropical Storm Debby, moved onshore around the 30 to 40 block area of Surfsong Road on Kiawah Island. No significant damage was detected at the point it came onshore. The tornado moved rapidly northwestward through the center of Turtle Point Golf course and snapped some trees and limbs around the 270 to 280 block region on Doral Open Road. The tornado continued northward toward the 25 to 30 block of Governors Drive, where it snapped and uprooted some trees. The tornado then moved northwest, and dissipated over the marsh region between Governors Drive and Rhetts Bluff Road.

.West Ashley...

Rating: EF0
Estimated Peak Wind: 77 mph
Path Length /statute/: 3.88 miles
Path Width /maximum/: 200 yards
Fatalities: 0
Injuries: 0

Start Date: 08/06/2024
Start Time: 12:14 AM EDT
Start Location: Citadel Mall / Charleston County / SC
Start Lat/Lon: 32.8 / -80.035

End Date: 08/06/2024
End Time: 12:22 AM EDT
End Location: Shadowmoss / Charleston County / SC
End Lat/Lon: 32.8432 / -80.0765

Survey Summary:

A tornado, associated with an outer band from Tropical Storm Debby, began near the Citadel Mall and I-526, where small limb debris found across I-526. The tornado is suspected to have sporadically touched down as it continued northwest across a mostly uninhabited area along Henry Tecklenburg Dr, just south of Bon Secours St. Francis Hospital. It then continued northwest across Glenn McConnell Pkwy where it snapped and uprooted some trees as it moved near Bairds Cv and Mary Ader Ave. The tornado then crossed a marshy area of Long Branch Creek, and snapped and uprooted a few more trees around Wicklowe Drive. It continued northwest, south of Canterbury Woods over a heavily wooded area, and crossed Bees Ferry Road. The tornado then tracked down the southern end of Shadowmoss Plantation Golf Club, where it snapped and uprooted a few more trees between Brogun Ln, McDougall Dr and Dunvegan Dr. The tornado dissipated just south of Muirfield Pkwy, just northwest of the Shadowmoss clubhouse.

.Ladys Island...

Rating: EF0
Estimated Peak Wind: 85 mph
Path Length /statute/: 2.14 miles
Path Width /maximum/: 60 yards
Fatalities: 0
Injuries: 0

Start Date: 08/06/2024
Start Time: 12:53 AM EDT
Start Location: 1 ESE Ashdale / Beaufort County / SC
Start Lat/Lon: 32.4393 / -80.6085

End Date: 08/06/2024
End Time: 12:56 AM EDT
End Location: 1 WNW Ashdale / Beaufort County / SC
End Lat/Lon: 32.4578 / -80.638

Survey Summary:

A short lived, high end EF0 tornado developed in an outer rain band of Tropical Storm Debby over Point Creek, just southeast of Lady`s Island. The tornado moved rapidly northwest across a Marshy region of the island, and when it reached Holly Hall Road, it snapped several small trees in an uninhabited area. The tornado continued northwest across the marsh region of Rock Springs Creek, ending around the 500 block of Sams Point Road, where it snapped several more trees. Continuing on a northwest path, the tornado then quickly dissipated just south of Wade Hampton Drive.

.Moncks Corner...

Rating: EF1
Estimated Peak Wind: 95 mph
Path Length /statute/: 3.88 miles
Path Width /maximum/: 150 yards
Fatalities: 0
Injuries: 0

Start Date: 08/06/2024
Start Time: 02:53 AM EDT
Start Location: 1 NW Stony Landing / Berkeley County / SC
Start Lat/Lon: 33.2079 / -79.9807

End Date: 08/06/2024
End Time: 03:00 AM EDT
End Location: 1 SSW Wampee / Berkeley County / SC
End Lat/Lon: 33.2369 / -80.0381

Survey Summary:

The tornado, which originated in an outer rain band associated with Tropical Storm Debby, touched down just east of McCormick Circle and snapped two trees in the woods just behind an Applebee s. The tornado then moved northwest, causing damage to the Applebee's sign, and then turned west and impacted the Arby s. This was the location of the strongest damage as numerous windows were blown out at the Arby's on both the west and east-facing sides of the building. The rooftop A/C was also blown into the Arby's parking lot. However, no other structural damage was noted, and therefore the degree of damage was kept near the middle of the expected wind speed, or at 95 mph. The Walmart Supercenter to the northwest of Arby s also sustained some very minor roof fascia damage, which was starting to peel off from the main structure. After this, the tornado continued to move northwest and passed Mitton Road, where several trees were uprooted with a few branches greater than 3 in diameter broken. There was also a residence on Mitton Road that had roof damage to less than 20% of the structure. The tornado then moved northwest and weakened as it crossed Kitfield Rd, where some branches (mostly 1-3 in diameter) were observed broken. To the northwest on Lois Circle and Broughton Rd, branches that were snapped (1-3 in diameter) were noted. Finally, the tornado moved to the northwest, and dissipated on the northern end of the Pinopolis peninsula on the south end of Lake Moultrie. The National Weather Service at Charleston, SC would like to thank

Berkeley County Emergency Management for their invaluable help with various damage photos and track maps.

.St. Helena Island...

Rating: EF0
Estimated Peak Wind: 74 mph
Path Length /statute/: 0.85 miles
Path Width /maximum/: 60 yards
Fatalities: 0
Injuries: 0

Start Date: 08/06/2024
Start Time: 12:41 AM EDT
Start Location: 3 ESE Frogmore / Beaufort County / SC
Start Lat/Lon: 32.3736 / -80.5253

End Date: 08/06/2024
End Time: 12:43 AM EDT
End Location: 2 ESE Frogmore / Beaufort County / SC
End Lat/Lon: 32.3819 / -80.5361

Survey Summary:

A weak, very short-lived tornado associated with an outer rain band of Tropical Storm Debby touched down over the marsh region of the Harbor River, just south of 1st Coleman Road. Note: Radar data was used to estimate the beginning of the tornado path over the remote marsh region south of 1st Coleman Road. The first detectable damage was a small uprooted tree and a few snapped tree limbs near the southern end of 1st Coleman Road, where it borders the marsh region of the Harbor River. The tornado moved rapidly northwest, generally along the southern and western side of 1st Coleman Road where it snapped several tree limbs and small trees, broke a flag pole at the base, and did minor damage to the metal skirt at the base of one mobile home. The tornado continued briefly to the northwest where it ended in a heavily wooded area just southwest of the intersection of Seaside Road and 1st Coleman Road. Thanks to the Emergency Management Division of the Beaufort County Sheriff's office for their assistance with the ground survey of this event.

EF Scale: The Enhanced Fujita Scale classifies tornadoes into the following categories:

EF0.....65 to 85 mph
EF1.....86 to 110 mph
EF2.....111 to 135 mph
EF3.....136 to 165 mph
EF4.....166 to 200 mph
EF5.....>200 mph

NOTE:

The information in this statement is preliminary and subject to change pending final review of the events and publication in NWS Storm Data.