

POST TROPICAL CYCLONE REPORT

Storm Name	Tropical Storm Debby
NWS Office	Charleston, SC
Begin/End Date	08/04/2024 - 08/09/2024
Fatalities	0 - Direct 0 - Indirect
Tornadoes	8

Event Summary

Debby made landfall near the Big Bend of Florida as a hurricane on the morning of August 5th before weakening to a tropical storm and moving very slowly along the Southeast coast through August 9th. Prolonged heavy rainfall across southeast Georgia and southeast South Carolina brought widespread flash flooding on August 5th and 6th, with considerable and prolonged flooding of creeks, streams, and main stem rivers exacerbated by additional rainfall for several days thereafter. Additionally, several nighttime tornadoes occurred across the South Carolina Low Country on the night of August 5th. Scattered tree damage from near-tropical-storm-force winds resulted in some power and communications outages.

NOTE: It is unlikely that the point-based observations provided in this report sampled the peak values for the event.

Highest 10 Land Winds (kts)*

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Tybee South	GA	WxFlow	39	48
Folly Beach South End	SC	WxFlow	39	55
Charleston	SC	WxFlow	36	52
Isle of Palms Pier	SC	WxFlow	35	48
Savannah Airport	GA	ASOS	31	48
Tybee North	GA	WxFlow	31	44
Beaufort	SC	WxFlow	31	48
Sullivan's Island	SC	WxFlow	30	40
Beaufort County Airport	SC	AWOS	26	37
Hunter Army Airfield	GA	ASOS	26	37

* Anemometer heights < 20 m

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Edisto Buoy	NDBC	44	51
Grays Reef Buoy	NDBC	38	45
Shutes Folly	WxFlow	34	45
Fort Sumter	WxFlow	34	41
Charleston Wave Buoy (CHR60)	CORMP	33	45
Capers Nearshore SC (CAP2)	CORMP	29	39
Fripp Nearshore SC (FRP2)	CORMP	29	43
Savannah Entrance Light	WxFlow	25	31
Calibogue Sound	WxFlow	20	27

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Moncks Corner 6.6 SW	SC	CoCoRaHS	22.02
Saint George - Dorchester County Mes	SC	Mesonet	19.51
North Charleston - Dorchester County	SC	Mesonet	19.06
Moncks Corner 1.2 NW	SC	CoCoRaHS	18.94
Ridgeville 3.2 WSW	SC	CoCoRaHS	18.86
Summerville 9.3 NNE	SC	CoCoRaHS	18.66
Moncks Corner 0.8 ESE	SC	CoCoRaHS	18.64
Mount Pleasant 8.1 NE	SC	CoCoRaHS	18.47
Summerville 1.7 SSE	SC	CoCoRaHS	18.38
Moncks Corner 3.6 E	SC	CoCoRaHS	18.29

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Fort Pulaski	GA	MHHW	1.68
Charleston	SC	MHHW	1.06

Lowest 10 Pressures

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Shutes Folly		WxFlow	994.0
Sullivan's Island	SC	WxFlow	994.0
Isle of Palms Pier	SC	WxFlow	994.4
Charleston	SC	WxFlow	994.6
Fort Sumter		WxFlow	994.7
Edisto Buoy		NDBC	994.8
Capers Nearshore SC (CAP2)		CORMP	995.1
Charleston Wave Buoy (CHR60)		CORMP	995.3
Folly Beach South End	SC	WxFlow	996.0
Charleston Airport	SC	ASOS	996.3

Report Last Updated on: 08/30/2024

The following files have been updated: Summary, Wind and Pressure