

POST TROPICAL CYCLONE REPORT

Storm Name	Debby
NWS Office	Key West
Begin/End Date	08/03/2024 - 08/04/2024
Fatalities	0 - Direct 0 - Indirect
Tornadoes	0

Event Summary

The center of Tropical Storm Debby passed about 85 nautical miles to the west-southwest of Key West on a north-northwest path through the southeastern Gulf of Mexico. Tropical storm-force wind gusts occurred in rain bands extending throughout the Straits of Florida and Florida Keys. Sustained tropical storm force winds occurred over the coastal waters mainly from along the Lower Florida Keys west of the Seven Mile Bridge through Dry Tortugas. The tropical-storm force wind gusts resulted in fallen large tree limbs and isolated power outages primarily affecting a street block or a multi-unit residential complex at a time. The combination high tide and strong southerly winds sustained just below tropical storm force resulted in storm tides up to an estimated 1.8 feet above MHHW along the oceanside of the Lower Florida Keys, but lower water levels were measured at gauges in the lee along the Gulf of Mexico and Florida Bay side of the Florida Keys. Moderate to heavy ocean wave overwash resulted in temporary flooding on oceanfront low elevation streets in Key West. In combination with brief heavy rainfall from the rain bands, a section of State Road A1A in Key West was closed due to having little or no drainage in a construction zone.

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>
Big Coppitt Key Substation - Keys Energy Services	FL	MesoNet	40	55
NWS WFO Key West	FL	RSOIS		50
Naval Air Station Key West - Boca Chica Field	FL	ASOS	34	48
Key West International Airport	FL	ASOS	32	48
Stock Island Energy Station - Keys Energy Services	FL	MesoNet	34	45
Crawl Key Oceanside - WeatherFlow	FL	MesoNet	31	44
Key West Harbor - National Ocean Service	FL	NOS	30	43
Florida Keys Marathon International Airport	FL	ASOS	25	42
Coral Shores High School - Plantation Key - WeatherSTEM	FL	MesoNet	32	41
Crawl Key Substation - Florida Keys Electric Coop/WeatherFlow	FL	MesoNet	19	41

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Alligator Reef Light - WeatherFlow	MesoNet	42	52
Sand Key	C-MAN	39	50
Long Key Light*	C-MAN	37	48
Carysfort Reef Light - WeatherFlow	MesoNet	34	45

* Anemometer heights < 10 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Dry Tortugas National Park	FL	COOP	5.45
WFO Key West	FL	COOP	3.08
Key West 0.6 ESE	FL	CoCoRaHS	2.61
Cudjoe Key	FL	CWOP	2.42
Key West 0.4 E	FL	CoCoRaHS	2.29
Key West High School	FL	WeatherSTEM	2.28
Key West 2.8 ENE	FL	CoCoRaHS	2.06
Curry Hammock State Park - Marathon	FL	COOP	2.00
Cudjoe Key 1.7 ESE	FL	CoCoRaHS	1.95
Key Largo 17.9 NE	FL	CoCoRaHS	1.86

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Key West	FL	MHHW	1.08
Vaca Key	FL	MHHW	0.80

Lowest 10 Pressures

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
U.S. Coast Guard Sector Key West - WeatherFlow	FL	MesoNet	1006.4
Naval Air Station Key West - Boca Chica Field	FL	ASOS	1007.6
Key West Harbor	FL	NOS	1008.0
Long Key Light	FL	C-MAN	1008.2
Key West International Airport	FL	ASOS	1008.4
Marathon Substation - Florida Keys Electric Coop - Weatherflow	FL	MesoNet	1008.5
Sand Key	FL	C-MAN	1008.6
Crawl Key Substation - Florida Keys Electric Coop - Weatherflow	FL	MesoNet	1008.9
Florida Keys Marathon International Airport	FL	ASOS	1009.4
Alligator Reef Light	FL	MesoNet	1009.5

Report Last Updated on [08/13/2024]:

Last Updated: Initial Report