

POST TROPICAL CYCLONE REPORT

Storm Name	Rafael
NWS Office	Key West
Begin/End Date	11/05/2024- 11/07/2024
Fatalities	0 - Direct 0 - Indirect
Tornadoes	0

Event Summary

Hurricane Rafael moved northwest from the northwestern Caribbean Sea, crossing western Cuba, and continuing northwest across the southeastern Gulf of Mexico. The center of Rafael passed 125 miles southwest of Key West during the evening of November 6, 2024 as a category 2 hurricane on the Saffir Simpson Hurricane Wind Scale. Lower-end tropical storm force winds impacted mainly portions of the Lower Florida Keys and its adjacent coastal waters producing isolated small tree limb damage. Minor coastal flooding and Atlantic-side wave overwash occurred late on November 6 through early November 7, 2024, primarily in Key West. Brief street flooding occurred in Key West during the late evening of November 6, 2024 due to brief, heavy squalls from outer rainbands mainly impacted the Lower Florida Keys.

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)*

Station	State	Type	Sustained	Gust
NAS Key West Boca Chica Field	FL	ASOS	34	46
Key West International Airport	FL	ASOS	31	41
Key West Harbor - Tide Gauge	FL	NOS	24	38
Florida Keys Marathon International Ai	FL	ASOS	23	36
Key West High School	FL	WeatherSTEM		36
Duck Key	FL	WeatherSTEM		36
USCG Sector Key West	FL	WeatherFlow	23	35
Keys Energy Big Coppitt Substation	FL	MesoNet	39	48
Stock Island Keys Energy Power Plant	FL	MesoNet	34	46
Keys Energy Big Pine Substation	FL	MesoNet	29	40

Keys Energy Cudjoe Substation

FL

MesoNet

27

40

* Anemometer heights < 20 m

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Sand Key	C-MAN	34	56
Alligator Reef Light	WeatherFlow	28	36
Long Key Light	C-MAN	25	36

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Cudjoe Key 0.7 SE	FL	CoCoRAHS	3.43
Key West 0.4 E	FL	CoCoRAHS	2.72
Naval Air Station Key West Boca Chica	FL	ASOS	2.58
Key West 0.6 SE	FL	CoCoRAHS	2.54
Key West 2.2 ENE	FL	CoCoRAHS	2.50
Key West International Airport	FL	ASOS	2.42
WFO Key West	FL	COOP	2.40
Big Pine Key 0.7 NW	FL	CoCoRAHS	2.26
Big Pine Key 0.9 NW	FL	CoCoRAHS	2.25
Cudjoe Key	FL	CWOP	1.79

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Key West Harbor	FL	MHHW	1.19
Vaca Key Florida Bay	FL	MHHW	1.16

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Lowest 10 Pressures (MSLP)

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Sand Key	FL	C-MAN	1007.8
NAS Key West Boca Chica Field	FL	ASOS	1009.1
Long Key Light	FL	C-MAN	1009.2
Alligator Reef Light	FL	WeatherFlow	1009.5
Key West Harbor	FL	NOS	1009.6
Key West International Airport	FL	ASOS	1009.8
Marathon Florida Keys International Ai		1.19 ASOS	1010.1

Report Last Updated on [11/08/2024]:

The following files have been updated: Summary, Wind and Pressure, Rainfall, Water Level, Tornadoes

Remarks:

ASOS and CoCoRAHS rainfall data from 1200 UTC Nov 5 through 1200 UTC Nov 7 2024.

