

POST TROPICAL CYCLONE REPORT

Storm Name	Helene
NWS Office	Key West
Begin/End Date	09/25/2024- 09/27/2024
Fatalities	0 - Direct 0 - Indirect
Tornadoes	0

Event Summary

Hurricane Helene moved north northeast across the eastern Gulf of Mexico, strengthening to category 2 strength before passing at closest approach 235 statute miles to the west-northwest of Key West on the morning of September 27, 2024. Widespread lower-end tropical storm force winds overspread the Florida Keys and its adjacent coastal waters producing isolated large tree limb and utility line damage. Coastal flooding in lowest elevation parts of the Florida Keys occurred initially with storm surge around 1.5 feet MHHW along the oceanside of the Florida Keys accompanied by heavy wave action on September 26th, with a secondary Florida Bay side coastal flooding episode across eastern Florida Bay coastal areas during the early to mid morning hours September 27th well after Hurricane Helen had moved inland across the southeastern United States.

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	41	56
Stock Island Keys Energy Power Plant	FL	MesoNet	32	55
Cudjoe Key	FL	CWOP	36	53
Key West International Airport	FL	ASOS	39	52
Marathon Florida Keys International Ai	FL	ASOS	29	49
USCG Sector Key West	FL	WeatherFlow	29	49
Keys Energy Big Coppitt Substation	FL	MesoNet	26	49
Vaca Key	FL	NOS	31	47
Keys Energy Big Pine Substation	FL	MesoNet	26	47
Duck Key	FL	WeatherSTEM		45

* 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	46	52
Carysfort Reef Light	WeatherFlow	37	48
Long Key Light	C-MAN	44	48
Alligator Reef Light	WeatherFlow	37	44

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Big Pine Key 0.9 WNW	FL	CoCoRAHS	2.49
Key Largo 6.2 NE	FL	CoCoRAHS	2.19
Big Pine Key 0.7 NW	FL	CoCoRAHS	2.13
Dry Tortugas National Park	FL	COOP	2.03
WFO Key West	FL	COOP	1.94
Key West 0.6 ESE	FL	CoCoRAHS	1.73
Marathon 6.8 NE	FL	CoCoRAHS	1.71
Key Largo 4.5 NE	FL	CoCoRAHS	1.56
Key West 0.4 E	FL	CoCoRAHS	1.48
Key West International Airport	FL	ASOS	1.44

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Key West Harbor	FL	MHHW	1.58
Vaca Key Florida Bay	FL	MHHW	1.40

Lowest 10 Pressures (MSLP)

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Sand Key	FL	C-MAN	1002.9
Long Key Light	FL	C-MAN	1003.1
NAS Key West Boca Chica Field	FL	ASOS	1003.3
Key West Harbor	FL	NOS	1004.0
Key West International Airport	FL	ASOS	1004.2
Marathon Florida Keys International Ai FL		ASOS	1004.8

Report Last Updated on [10/02/2024]:

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

Remarks:

Rainfall data from Key West International Airport and WFO Key West calendar day accumulations from Sep 24 through Sep 26. All other sites feature rainfall accumulation from 1200 UTC Sep 24 through 1200 UTC Sep 27 2024