

POST TROPICAL CYCLONE REPORT

Storm Name	Hurricane Milton
NWS Office	[Jacksonville, FL]
Begin/End Date	10/08/2024 - 10/11/2024
Fatalities	[0 - Direct [2] - Indirect
Tornadoes	[0]

Event Summary

A tropical disturbance over the southwest Gulf of Mexico quickly developed into Tropical Storm Milton on Saturday, October 5th. Milton then moved slowly east-southeastward, strengthening into a hurricane the following day. On Monday, October 7th, the storm underwent rapid intensification, reaching Category 5 strength as it neared the northwestern coast of Mexico's Yucatán Peninsula. Late on Monday and into Tuesday, Milton shifted eastward and then northeastward across the southeastern Gulf of Mexico.

As Milton approached Florida's Gulf coast on Wednesday, October 9th, it began to gradually weaken, but still maintained major hurricane status. The storm made landfall that evening near Siesta Key on Florida's west coast as a strong Category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. While it weakened further as it crossed central Florida overnight, Milton remained a hurricane. By early Thursday morning, October 10th, it emerged off Florida's Atlantic coast as a Category 1 storm.

Milton caused widespread impacts across north-central and northeast Florida, as well as coastal southeast Georgia. Flagler County, along with large portions of St. Johns, Putnam, and Marion counties, experienced sustained tropical storm-force winds and hurricane-force gusts. Rainfall amounts ranged from 7 to 11 inches as outer rainbands and the storm's powerful northern side swept through these areas late Wednesday night into early Thursday morning.

This heavy rainfall caused Deep Creek, a tributary of the St. Johns River in St. Johns County, to reach record levels on Thursday, October 10th, surpassing the previous record set during Hurricane Irma in 2017. This led to extensive flooding throughout the southern half of St. Johns County, particularly in the Flagler Estates community and the towns of Hastings and Spuds. Additionally, record flooding was observed along Haw Creek in western Flagler County, exceeding the previous record set in the aftermath of Hurricane Ian in 2022.

Storm surge flooding of around 3 feet above Mean Higher High Water (MHHW) was recorded along the St. Johns River and the northeast Florida coast. Significant inundation was reported along the lower St. Johns River, with widespread flooding in areas such as Welaka, FL.

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>
St Augustine Ap	FL	AWOS	45	52
Mayport Pilot Stn	FL	ASOS	38	56
Fernandina Beach Muni Ap	FL	AWOS	33	40
Flagler Co Executive Ap	FL	AWOS	33	48
Palatka Muni Lt Kay Larkin Fl	FL	AWOS	26	43
Gainesville Rgnl Ap	FL	ASOS	26	43
Jacksonville Intl Ap	FL	ASOS	25	30
Jacksonville NAS	FL	ASOS	25	47
Keystone Airpark	FL	AWOS	22	35
Ocala Jim Taylor Fld	FL	AWOS	22	35

* Anemometer heights < 20 m

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
St. Augustine Beach, FL	C-MAN	53	65
SummerHouse	WxFlow	42	55
Mayport (Bar Pilots Dock) FL	NOS	40	50
Jacksonville	WxFlow	39	51
Lewis	WxFlow	38	56
Huguenot Park	WxFlow	35	44
I-295 Buckman Bridge St Johns River FL	NOS	31	43
Jekyll Island	WxFlow	26	36
Fernandina Beach FL	NOS	21	34

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
ST. AUGUSTINE SOUTH 2.1 SSW	FL	CoCoRaHS	10.92
BUNNELL 1.0 ENE	FL	CoCoRaHS	10.25
PALM COAST 8.3 S	FL	CoCoRaHS	10.17
PALM COAST 4.5 SSW	FL	CoCoRaHS	10.12
HASTINGS 4NE	FL	NWSLI	9.81
OCALA 14.3 S	FL	CoCoRaHS	9.68
ST. AUGUSTINE 3.4 SW	FL	CoCoRaHS	9.63
PALM COAST 3.9 SSW	FL	CoCoRaHS	9.36
ST. AUGUSTINE 3.1 SSE	FL	CoCoRaHS	8.74
PALM COAST 1.9 NNE	FL	CoCoRaHS	8.72

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
I-295 Buckman Bridge	FL	MHHW	3.01
Southbank Riverwalk, St Johns River	FL	MHHW	2.57
Dames Point	FL	MHHW	2.25
Mayport (Bar Pilots Dock)	FL	MHHW	1.91
Fernandina Beach	FL	MHHW	1.81
Kings Bay MSF Pier	GA	MHHW	1.64

Lowest 10 Pressures (MSLP)

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Lewis	FL	WxFlow	995.0
Jacksonville	FL	WxFlow	995.1
SummerHouse	FL	WxFlow	996.2
St. Augustine Beach, FL	FL	C-MAN	996.5
Ocala Jim Taylor Fld	FL	AWOS	998.4
St Augustine Ap	FL	AWOS	998.4
Jacksonville NAS	FL	ASOS	999.9
I-295 Buckman Bridge St Johns River Fl	FL	NOS	1000.2
Mayport Pilot Stn	FL	ASOS	1000.4
Gainesville Rgnl Ap	FL	ASOS	1000.7

Report Last Updated on [10/16/2024]:

This is the initial issuance and the following files have been updated: wind & pressure, rainfall, water levels, impact narratives; no tornadoes were reported.

Remarks:

Total rainfall data measured was between 12z October 8th and 12z October 11th.