



# Tropical Update



8:30 AM EDT

Sunday, October 12, 2024

**Milton Recovery Weather & Riverine Flooding**

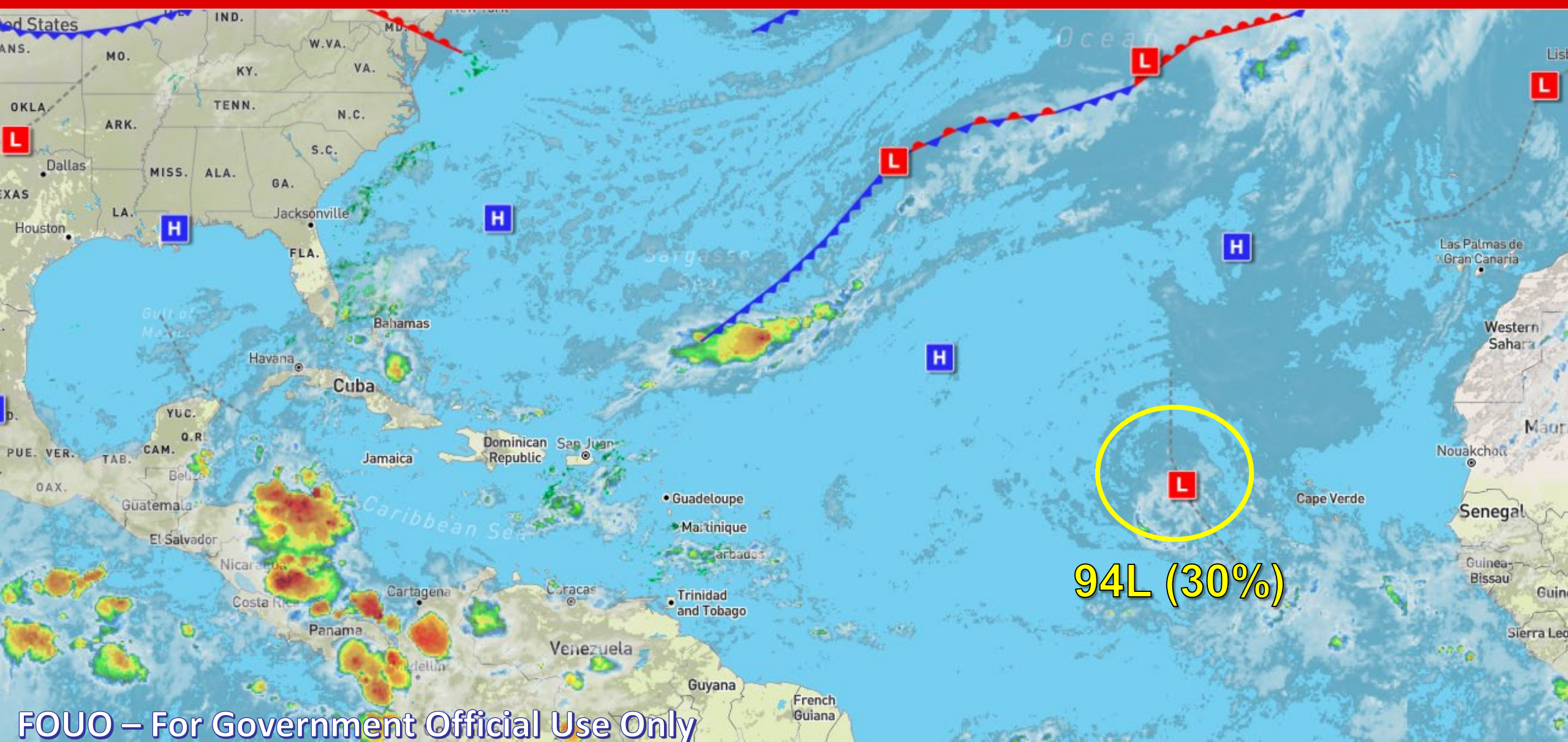
**Eastern Tropical Atlantic Disturbance - Invest 94L (30%)**

This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office, or visit the National Hurricane Center website at [www.hurricanes.gov](http://www.hurricanes.gov).



# Atlantic Basin Satellite Image

Chance of development:     None     Low     Medium     High







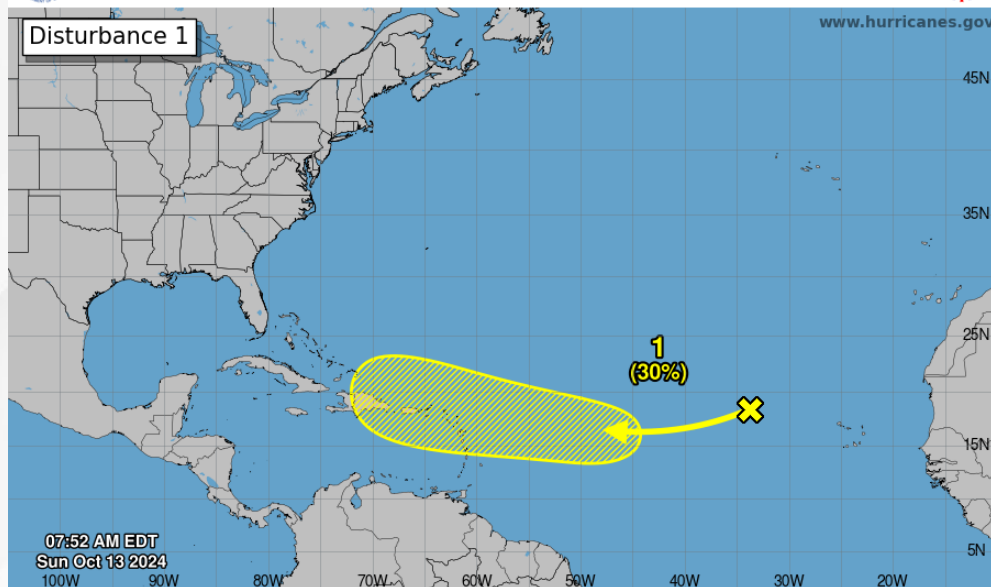
# Tropical Weather Outlook

## Invest 94L - Eastern Tropical Atlantic



### Seven-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Seven-Day Cyclone Formation Chance: ✕ < 40% ✕ 40-60% ✕ > 60%  
Tropical or Sub-Tropical Cyclone: ○ Depression ○ Storm ○ Hurricane  
○ Post-Tropical Cyclone or Remnants

10%

48 Hour Formation

30%

7 Day Formation

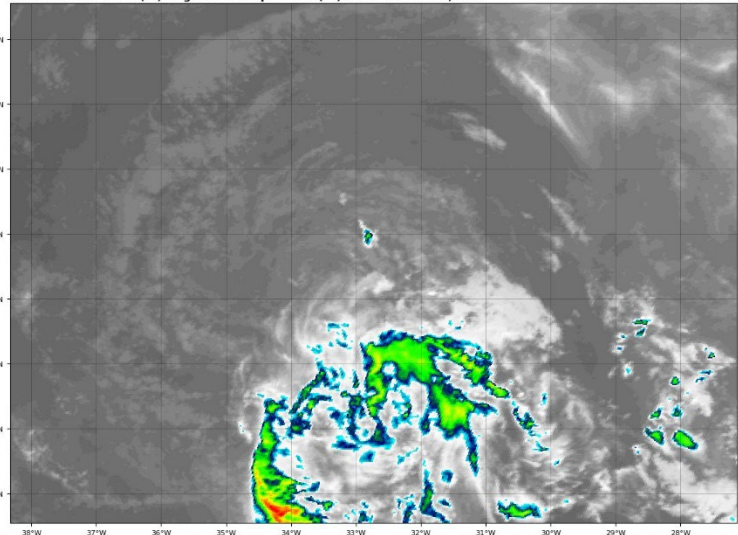
Showers and thunderstorms have diminished again in association with an area of low pressure located a few hundred miles west of the Cabo Verde Islands. While the system is currently embedded in an environment that is not favorable for development over the next couple of days, the system is forecast to move gradually westward to west-southwestward across the tropical Atlantic, where environmental conditions could become more favorable for gradual development in the central Tropical Atlantic by the mid to latter part of this week.

*This system poses no direct threat to Florida over the next 7-10 days, at least.*

Chance of development through 48 hours...**low...10%**

Chance of development through 7 days...**low...30%**

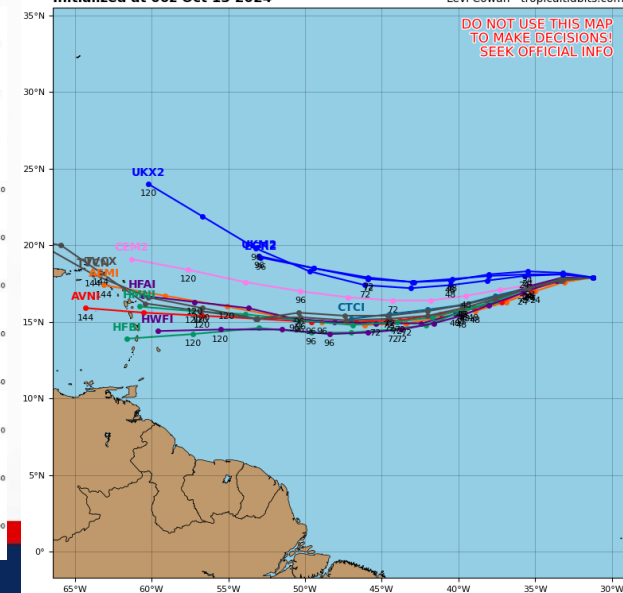
GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 11:45Z Oct 13, 2024



### Invest 94L Model Track Guidance

Initialized at 00z Oct 13 2024

Levi Cowan - tropicaltidbits.com



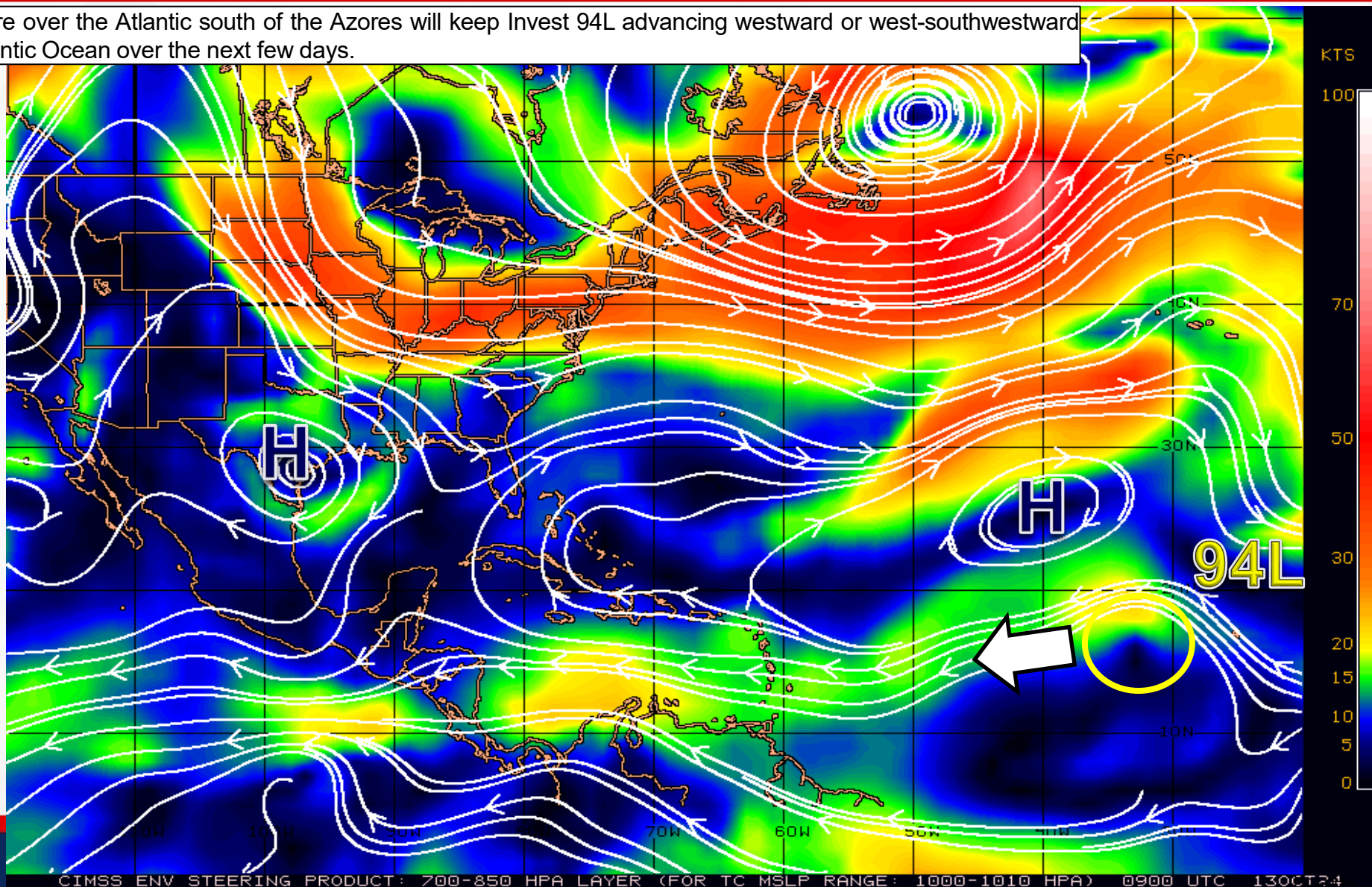


# Steering Currents

## What is Moving the System?

Color denotes the movement speed through the atmosphere and thin white lines denote direction. Tightly clustered white lines represent faster movement as well.

An area of high pressure over the Atlantic south of the Azores will keep Invest 94L advancing westward or west-southwestward through the tropical Atlantic Ocean over the next few days.



Fast Moving Storm

Fast Moving Storm

Typical Moving Storm

Slow Moving Storm



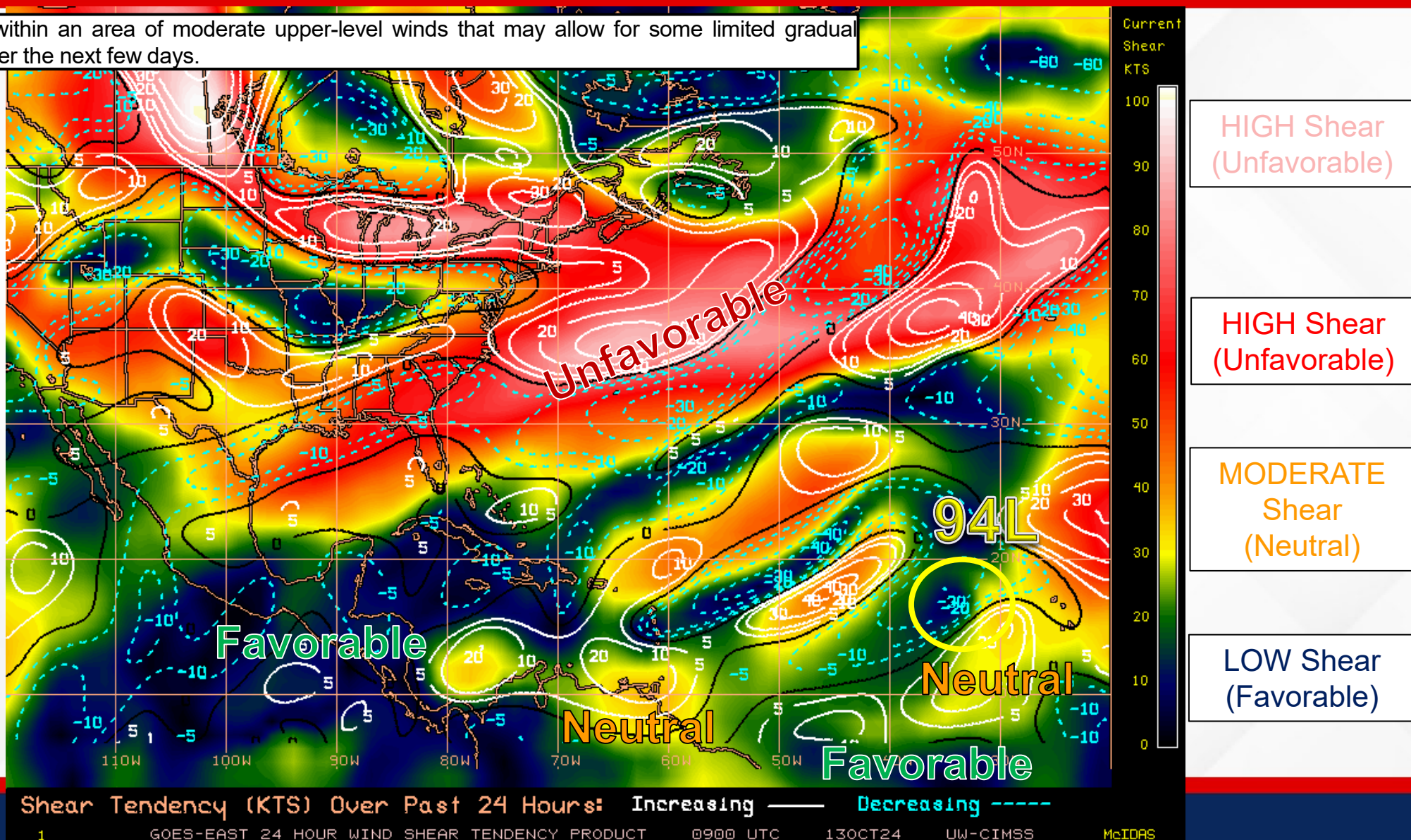


# Wind Shear

Is the environment favorable for the system?

Color denotes the amount of wind shear and the lines denote how it have changed over the last 24 hours (dotted lines show decreasing shear and solid lines show increasing).

Invest 94L currently resides within an area of moderate upper-level winds that may allow for some limited gradual development of the system over the next few days.





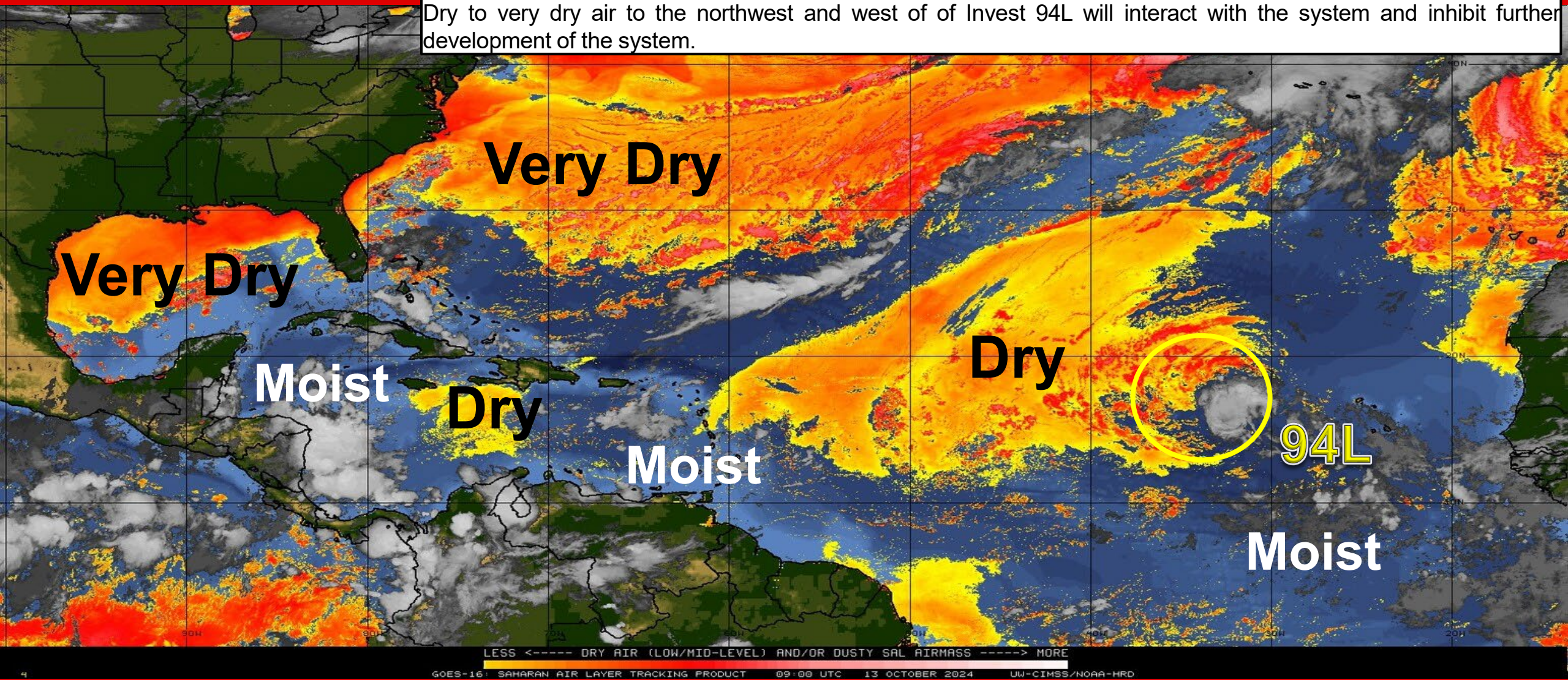


# Dry Air & Saharan Dust

Is the environment favorable for the system?

Color denotes concentration of Saharan Dust or dry, stable air.

Dry to very dry air to the northwest and west of of Invest 94L will interact with the system and inhibit further development of the system.

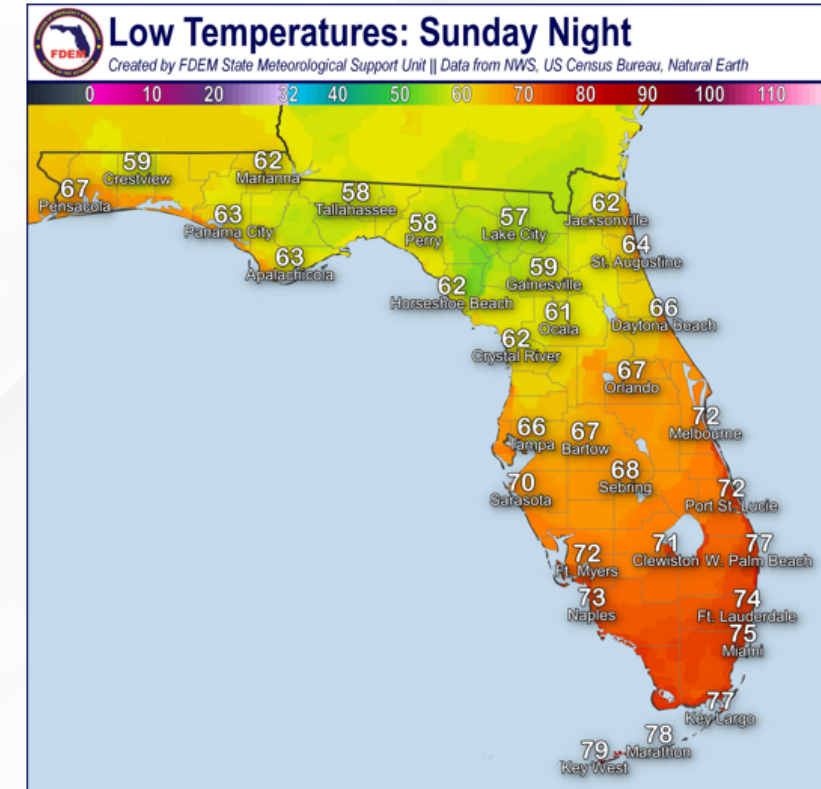
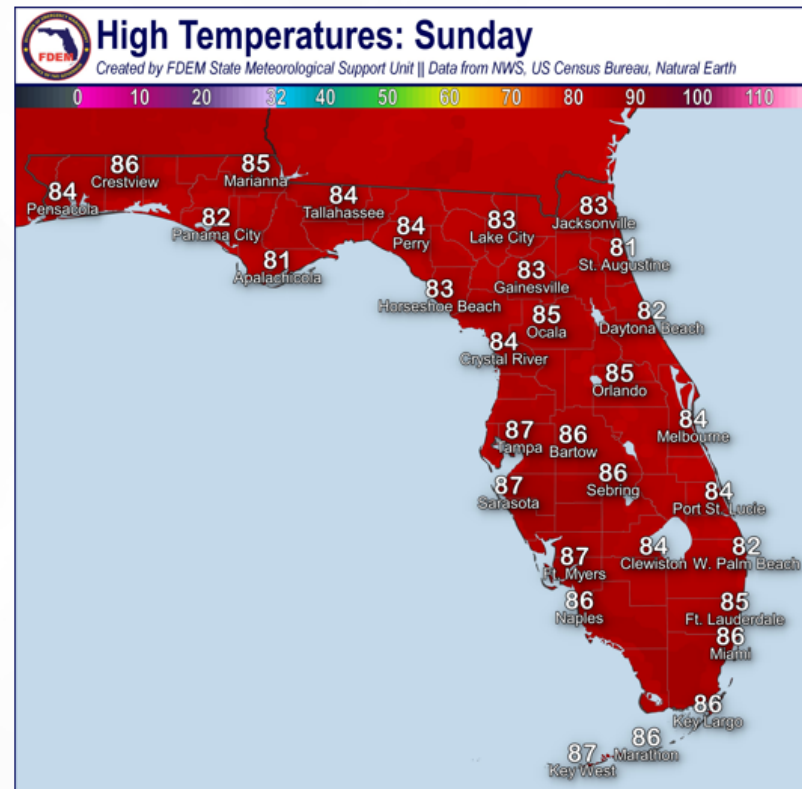
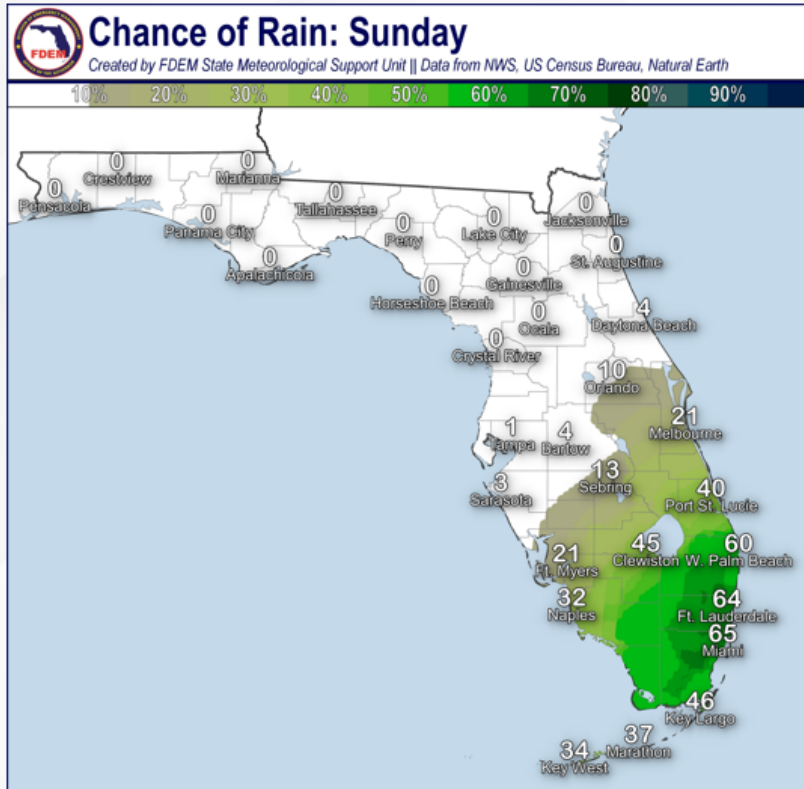






# Recovery Weather - Today

## Rain Chances, High Temperatures, & Low Temperatures





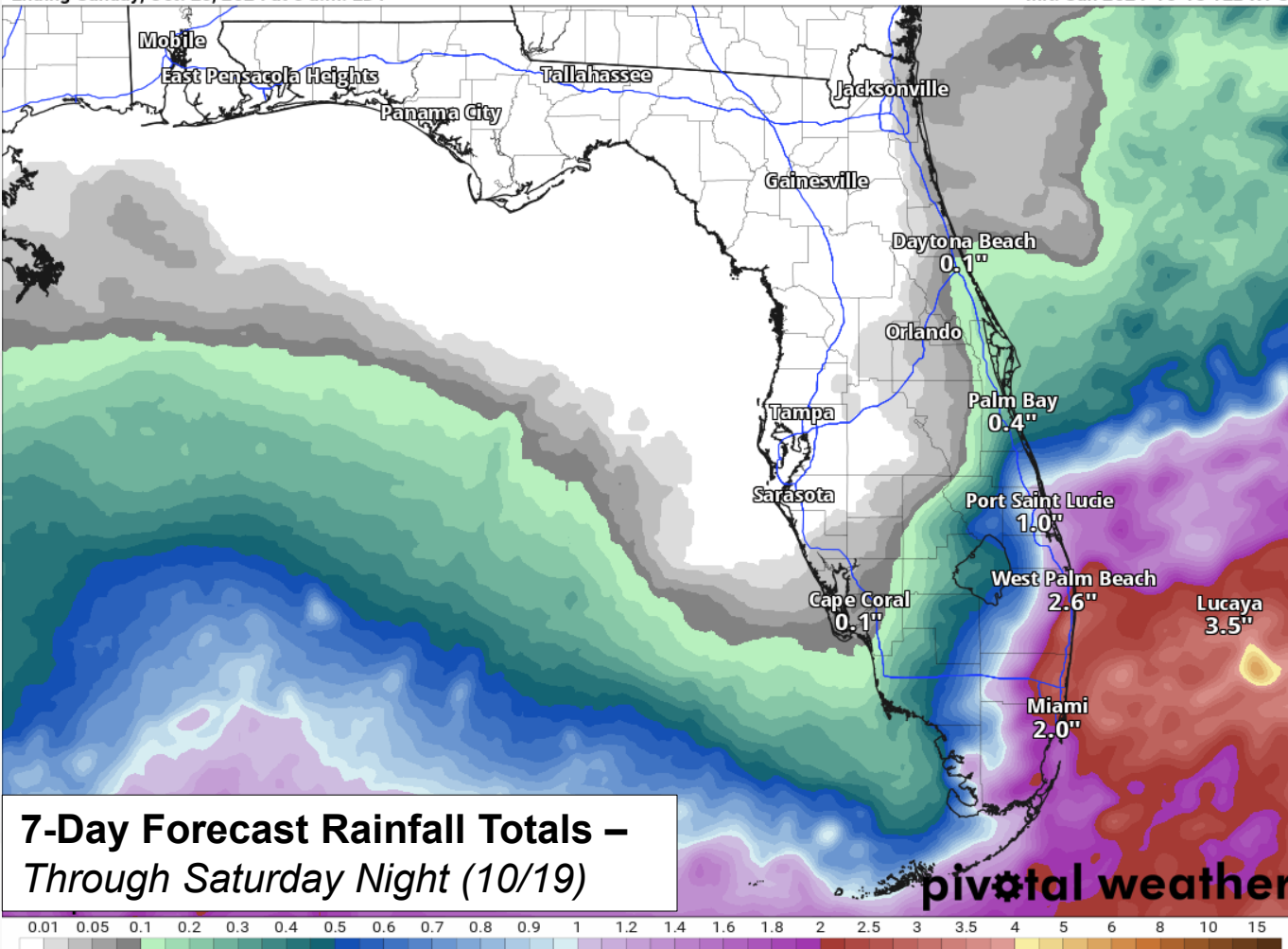
# Rainfall Totals – Next 7 Days

## From the Weather Prediction Center (WPC)

### 7-Day Precipitation (in)

Ending Sunday, Oct. 20, 2024 at 8 a.m. EDT

Init: Sun 2024-10-13 12z WPC



### 7-Day Forecast Rainfall Totals – Through Saturday Night (10/19)

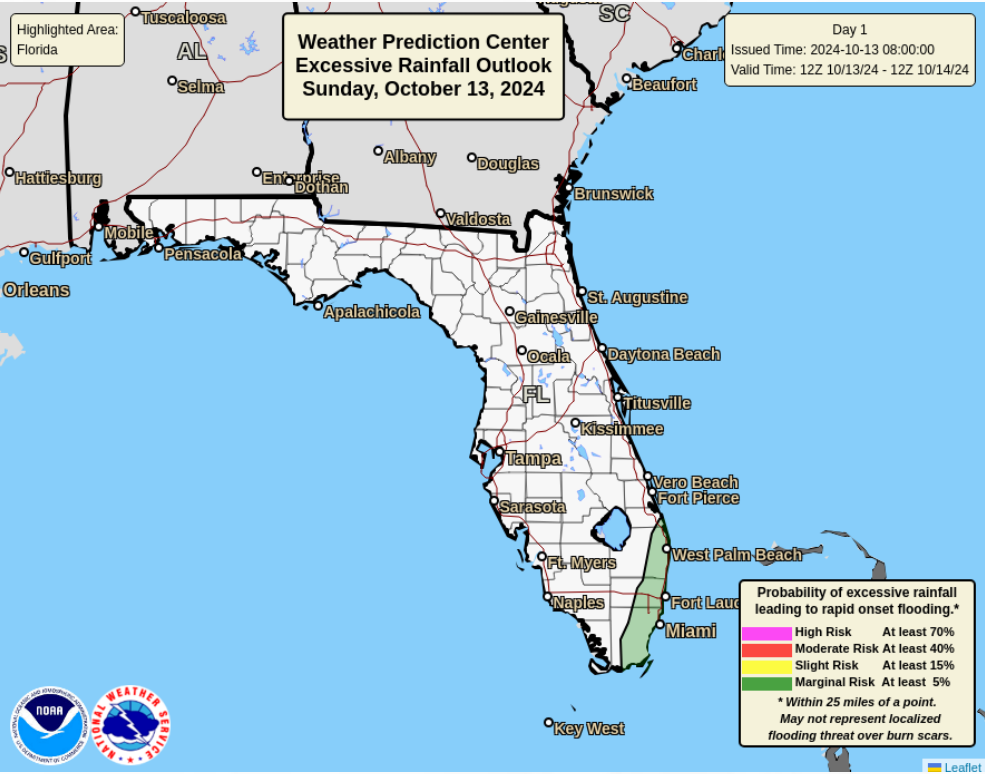
- Mostly sunny and pleasant conditions expected statewide today and into the work-week.
- Isolated to widely scattered showers and thunderstorms will continue to be possible along the Eastern Peninsula and along and south of the I-4 corridor over the coming days.
- More scattered to numerous shower and thunderstorm activity can be expected across South Florida and the Keys thanks to more abundant moisture and a northward lifting frontal boundary.
- Widespread rainfall totals near 1-3" are expected across South Florida and northward along the Treasure Coast with **locally higher totals upwards of 3-5"** possible along the Southeast Coast and Keys.





# Flash Flooding – Today

From the Weather Prediction Center (WPC)

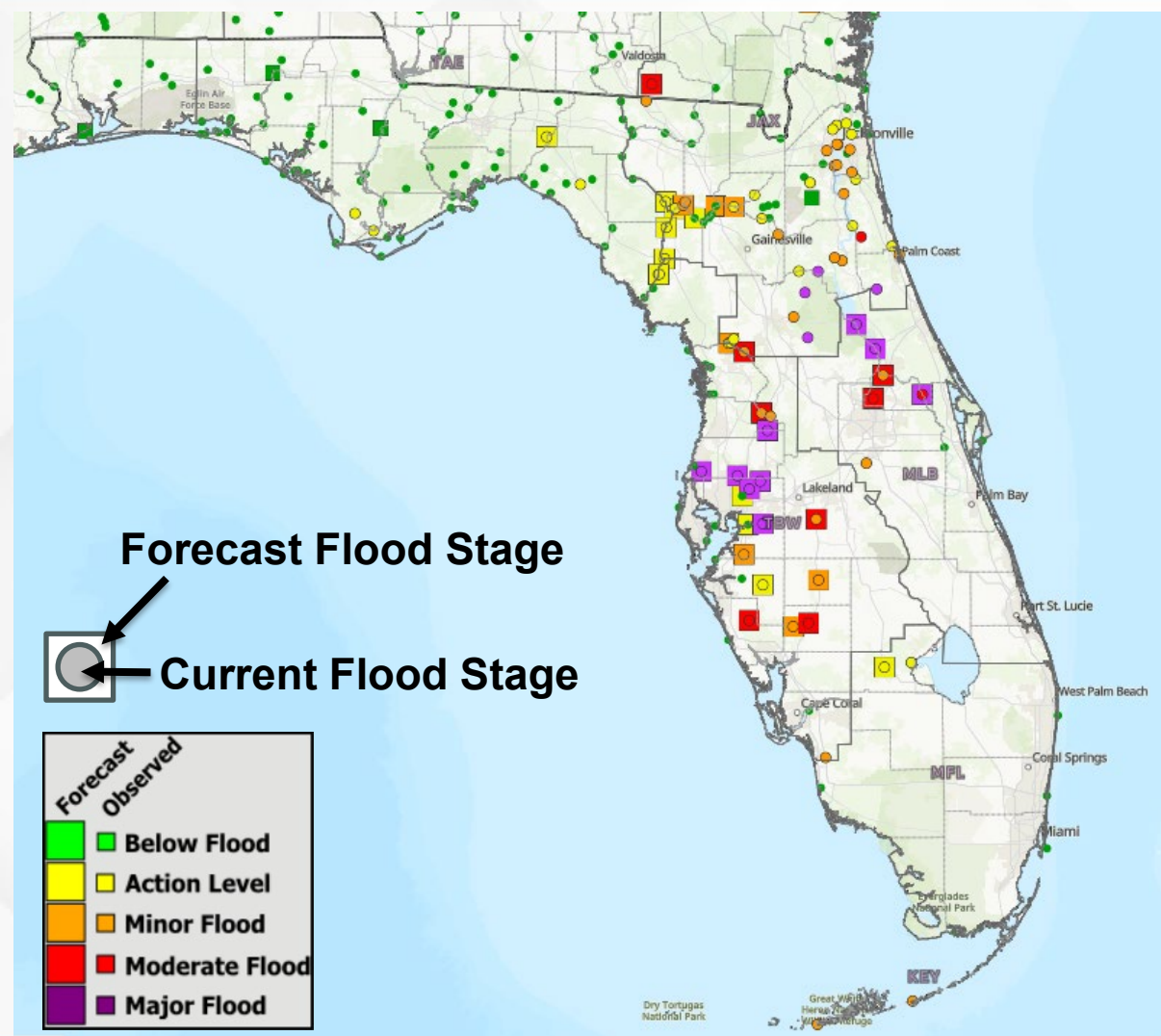


The Weather Prediction Center (WPC) is outlooking a **Marginal Risk (level 1 of 4) for Flash Flooding** along the Southeast Coast today as a frontal boundary lifts northward and moisture returns, allowing for scattered showers and thunderstorms across the region. Heavy downpours over the urban corridor and low-lying/poor drainage areas or within slow-moving shower or thunderstorm activity may give way to localize instances of **flooding** and **ponding of water**.



# Current & Forecast River Conditions

From the National Weather Service



Heavy and widespread rainfall from Hurricane Milton has already led to a riverine response across numerous basins extending from West-Central Florida, Central Florida and Northeast Florida. **Widespread moderate to major riverine flooding** has developed and is expected to continue for the next several days as above normal streamflows continue, and **some rivers remain above or forecast to rise to or above record flood stage**.

**Major Flood Stage** is ongoing along the [Withlacoochee River at US-301 Trilby](#), [Anclote River near Elfers at Little Road](#), [Cypress Creek at SR-54](#), Hillsborough River ([near Zephyrhills](#) and [at Morris Bridge](#)), [Alafia River at Lithia Pinecrest Road at Lithia](#), and St. Johns River ([at Astor](#) and [near Deland](#)). The Anclote River, Hillsborough River near Zephyrhills, Alafia River, and Little Wekiva River have crested, and water levels are forecast to gradually fall this weekend into next week. The St. Johns River at Astor has crested and will hold steady or very slowly fall over the next few weeks.

**Moderate flooding** is ongoing along the and [St. Johns River above Lake Harney](#), which is forecast to rise into **Major Flood Stage** within the next few days, as well as along the and [Little Wekiva River near Altamonte Springs](#), [Myakka river at Myakka River State Park](#), and [Peace River at SR-70 Arcadia](#).

Along the St. Johns River, numerous tidal points for the lower St. Johns are also within **Minor to Moderate Flood Stage**.

Water levels have reached **Minor Flood Stage** along the Withlacoochee River ([near Holder at SR-200](#) and [at Croom](#)), [Peace River at SR-60 Bartow](#), and the [St. Johns River near Sanford](#) and are forecast to continue rising, reaching **Moderate Flood Stage** in the coming days.

**Minor flooding** is occurring or forecast along the [Withlacoochee River at US-41 Dunnellon](#), [Little Manatee near Wimauma](#), [Horse Creek near Arcadia SR-72](#), [Peace River at Zolfo Springs](#), Santa Fe River ([Three Rivers Estates](#), [O'Ieno](#), [Worthington Springs](#)), and [Shingle Creek at Campbell Creek](#).

For more details, please visit the [River Forecast Center](#).





# River Flood Warnings

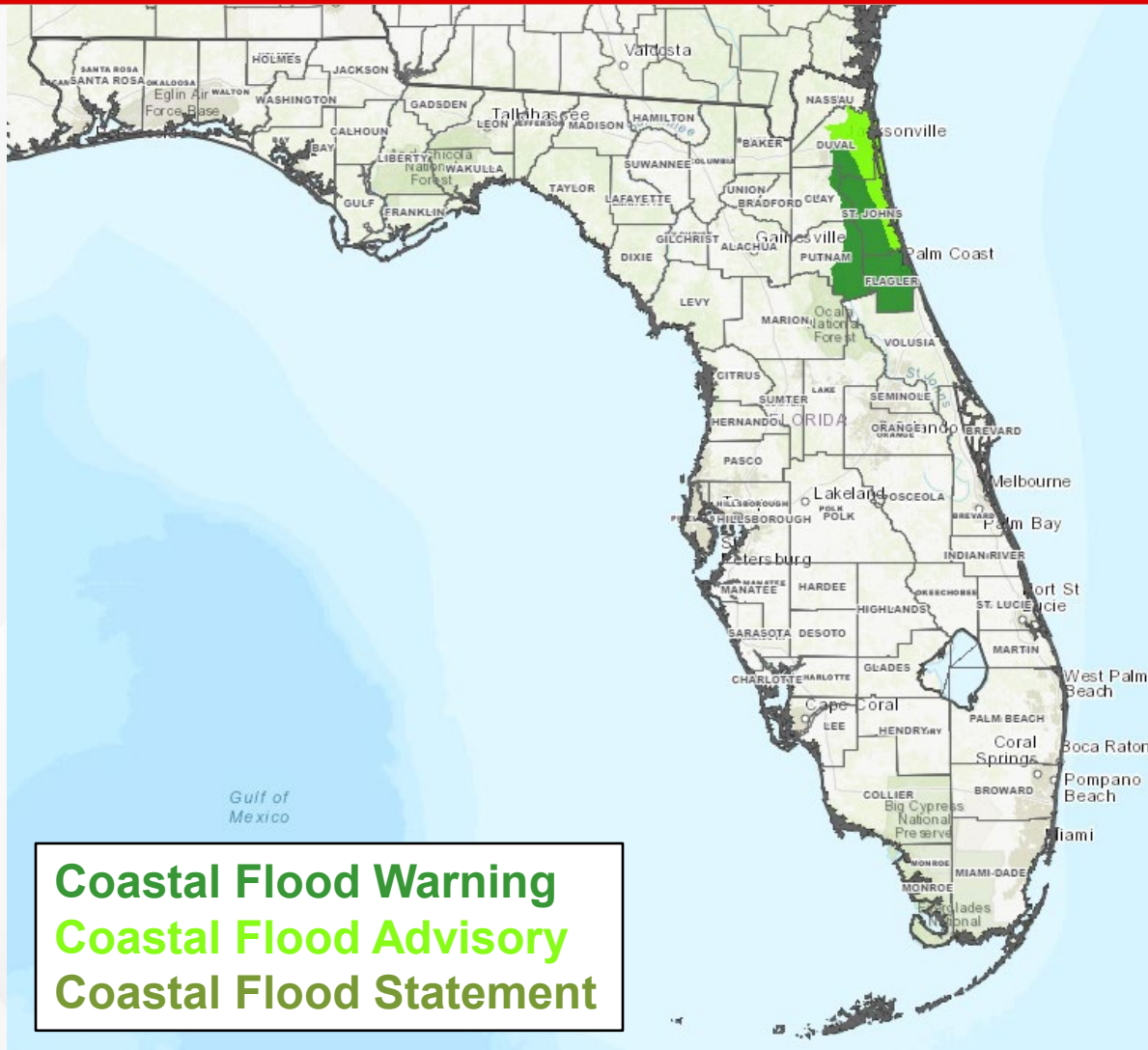
From the National Weather Service

River Gauge	County(ies) Affected	Current Level	Crest Level	Record Level	Status	Crest Day	Warning Expires
<a href="#">Alafia River at Lithia Pinecrest Road at Lithia</a>	Hillsborough	Major: 19.65 ft	Major: 24.34 ft	28.50 ft	Falling	Crested	0001 EDT 18-Oct
<a href="#">Anclote River near Elfers at Little Road</a>	Pasco	Major: 24.22 ft	Major: 25.30 ft	27.70 ft	Falling	Crested	0030 EDT 15-Oct
<a href="#">Cypress Creek at SR-54 Worthington Gardens</a>	Pasco	Major: 14.96 ft	Major: 15.00 ft	13.80 ft	Rising	13-Oct	Until Further Notice
<a href="#">Hillsborough River near Zephyrhills</a>	Hillsborough	Major: 15.13 ft	Major: 17.14 ft	15.30 ft	Falling	Crested	Until Further Notice
<a href="#">Hillsborough River at Morris Bridge</a>	Hillsborough	Major: 38.11 ft	Major: 38.16 ft	34.70 ft	Cresting	13-Oct	Until Further Notice
<a href="#">Horse Creek near Arcadia at SR-72</a>	DeSoto	Minor: 13.74 ft	Moderate: 14.37 ft	21.20 ft	Falling	11-Oct	Until Further Notice
<a href="#">Little Manatee River near Wimauma at US-301</a>	Hillsborough	Minor: 13.89 ft	Major: 17.12 ft	20.10 ft	Falling	Crested	0800 EDT 15-Oct
<a href="#">Myakka River at Myakka River State Park</a>	Sarasota	Moderate: 8.56 ft	Moderate: 9.00 ft	12.80 ft	Rising	14-Oct	Until Further Notice
<a href="#">Peace River at SR-60 Bartow</a>	Polk	Minor: 8.71 ft	Moderate: 9.40 ft	11.10 ft	Rising	16-Oct	Until Further Notice
<a href="#">Peace River at Zolfo Springs</a>	Hardee	Minor: 18.56 ft	Minor: 18.72 ft	27.20 ft	Falling	Crested	Until Further Notice
<a href="#">Peace River at SR-70 Arcadia</a>	DeSoto	Moderate: 14.25 ft	Moderate: 14.30 ft	23.70 ft	Cresting	13-Oct	Until Further Notice
<a href="#">Santa Fe River at Three Rivers Estates</a>	Columbia, Gilchrist, Suwannee	Minor: 18.88 ft	Minor: 19.70 ft	33.40 ft	Steady	16-Oct	Until Further Notice
<a href="#">Santa Fe River at O'leno State Park</a>	Alachua, Columbia	Below: 40.81 ft	Minor: 44.10 ft	57.10 ft	Rising	17-Oct	Until Further Notice
<a href="#">Santa Fe at Worthington Springs</a>	Alachua, Bradford, Union	Action: 57.54 ft	Minor: 59.00 ft	71.20 ft	Rising	16-Oct	1400 EDT 16-Oct
<a href="#">Single Creek at Campbell</a>	Osceola	Minor: 60.60 ft	Minor: 60.61 ft	64.20 ft	Cresting	13-Oct	Until Further Notice
<a href="#">St. Johns River at Astor</a>	Volusia, Lake	Major: 4.73 ft	Major: 4.81 ft	4.70 ft	Falling	Crested	Until Further Notice
<a href="#">St. Johns River near Deland</a>	Lake	Major: 5.44 ft	Major: 5.90 ft	6.30 ft	Rising	TBD	Until Further Notice
<a href="#">St. Johns River near Sanford</a>	Seminole	Minor: 6.54 ft	Moderate: 7.90 ft	9.00 ft	Rising	TBD	Until Further Notice
<a href="#">St. Johns River above Lake Harney</a>	Seminole, Volusia	Moderate: 8.21 ft	Major: 10.30 ft	12.70 ft	Rising	TBD	Until Further Notice
<a href="#">Little Wekiva River near Altamonte Springs 2N</a>	Seminole	Moderate: 29.17 ft	Major: 30.08 ft	31.1 ft	Falling	Crested	Until Further Notice
<a href="#">Withlacoochee River at US-41 Dunnellon</a>	Citrus, Marion	Action: 28.86 ft	Minor: 29.40 ft	33.00 ft	Rising	TBD	Until Further Notice
<a href="#">Withlacoochee River near Holder</a>	Cirtus	Minor: 8.93 ft	Moderate: 9.80 ft	13.30 ft	Rising	TBD	Until Further Notice
<a href="#">Withlacoochee River at Croom</a>	Pasco, Sumter	Minor: 10.26 ft	Moderate: 11.90 ft	15.20 ft	Rising	TBD	Until Further Notice
<a href="#">Withlacoochee River at US-301 Trilby</a>	Hernando, Pasco	Major: 16.99 ft	Major: 17.60 ft	20.40 ft	Rising	TBD	Until Further Notice



# Coastal Flooding

From the National Weather Service (NWS)



**Coastal Flood Warnings** remain in effect along the St. Johns River Basin and coastal St. Flagler county through Monday morning as heavy rainfall filtering in and trapped tides within the basin continue to give way to **significant coastal flooding** and some **shoreline erosion**.

**Minor coastal flooding** will likely persist even at times of low tide along the St. Johns River Basin.

A **Coastal Flood Advisory** remains in effect through this evening along coastal St. Johns and coastal Duval County for **minor coastal flooding** near and during times of high tide.

**Coastal Flood Statements** remain in place along the bayside Upper Keys through late this afternoon as **minor saltwater flooding less than 1' above normal dry ground** near and at times of high tide continue to be possible as water levels continue to recede.





# Summary

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## Eastern Tropical Atlantic – Invest 94L:

- Showers and thunderstorms have diminished again in association with an area of low pressure located a few hundred miles west of the Cabo Verde Islands.
- While the system is currently embedded in an environment that is not favorable for development over the next couple of days, the system is forecast to move gradually westward to west-southwestward across the tropical Atlantic, where environmental conditions could become more favorable for gradual development in the central Tropical Atlantic by the mid to latter part of this week.
- The NHC is outlooking a **low (10%) chance of development** over the next 48 hours, and a **low (30%) chance of development** over the next 7 days.
- *This system poses no direct threat to Florida over the next 7-10 days at least.*

## Florida Outlook:

- Mostly sunny and pleasant conditions expected statewide today with isolated to scattered showers and thunderstorms across eastern and southern portions of the Peninsula and the Keys.
- The Weather Prediction Center (WPC) is outlooking a **Marginal Risk (level 1 of 4) for Flash Flooding** along the Southeast Coast today and Saturday as a frontal boundary lifts northward and moisture returns, allowing for scattered showers and thunderstorms across the region this weekend.
  - Heavy downpours over the urban corridor and low-lying/poor drainage areas or within slow-moving shower or thunderstorm activity may give way to localize instances of **flooding** and **ponding of water**.
- High temperatures in low to middle 80s statewide; Heat indices in the 90s possible across Southwest Florida and along the Keys.
- Low temperatures in the upper 50s to middle 60s across North Florida, upper 60s to low 70s across Central Florida, and 70s across South Florida and the Keys.
- Northeasterly to northerly winds with gusts near 10-15 mph will persist along the Peninsula throughout the day.
- Widespread heavy rainfall from Hurricane Milton has led to a riverine response across numerous basins extending from West-Central Florida, Central Florida and Northeast Florida.
  - **Widespread moderate to major riverine flooding** continues across West-Central, Central, and Northeast Florida rivers, creeks, and waterways with numerous River Flood Warnings in effect.
  - Many of these rivers have crested and begun to slowly decline; however, water levels continue to rise along Cypress Creek, the Myakka River, and portions of the Withlacoochee, Peace, and St. Johns Rivers.
- Instances of coastal flooding continue in the wake of Hurricane Milton.
  - **Coastal Flood Warnings** remain in effect along the St. Johns River Basin and coastal St. Flagler county through Monday morning as heavy rainfall filtering in and trapped tides within the basin continue to give way to **significant coastal flooding** and some **shoreline erosion**.
  - **Minor coastal flooding** will likely persist even at times of low tide along the St. Johns River Basin.
  - A **Coastal Flood Advisory** remains in effect through this evening along coastal St. Johns and coastal Duval County for **minor coastal flooding** near and during times of high tide.
  - **Coastal Flood Statements** remain in place along the bayside Upper Keys through late this afternoon as **minor saltwater flooding less than 1' above normal dry ground** near and at times of high tide continue to be possible as water levels continue to recede.

The next briefing packet will be issued on Monday Morning. For the latest information, please visit the National Hurricane Center website.



# Tropical Update

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Created by:

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**State Meteorological Support Unit**

**Florida Division of Emergency Management**

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