



Tropical Update



12:00 PM EDT

Saturday, October 12, 2024

Milton Recovery Weather & Riverine Flooding

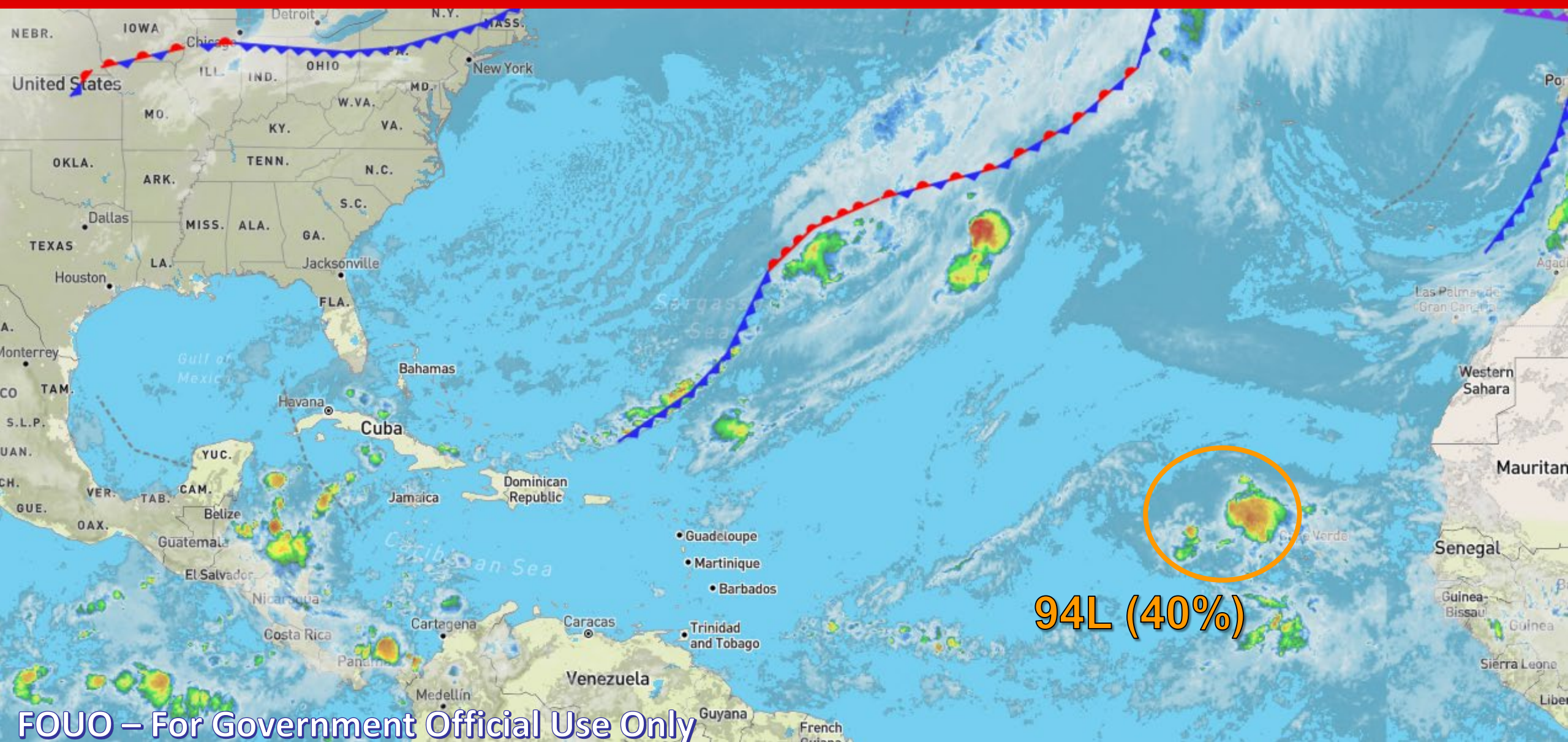
Eastern Tropical Atlantic Disturbance - Invest 94L (40%)

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.



Atlantic Basin Satellite Image

Chance of development: None Low Medium High



94L (40%)

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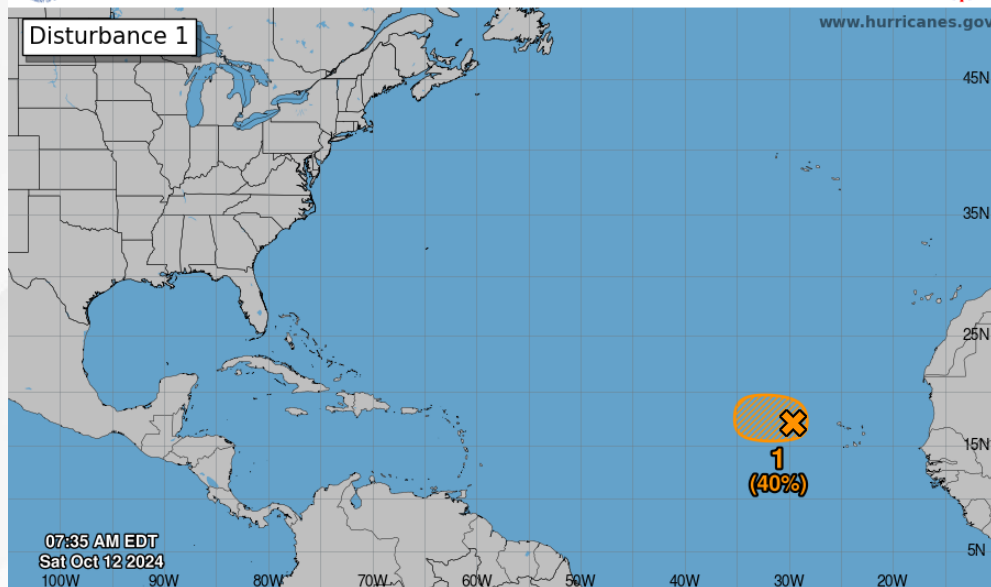
Tropical Weather Outlook

Invest 94L - Eastern Tropical Atlantic

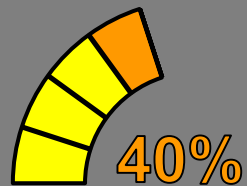


Seven-Day Graphical Tropical Weather Outlook

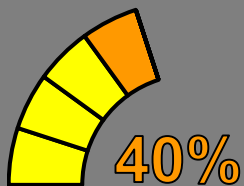
National Hurricane Center Miami, Florida



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



48 Hour Formation



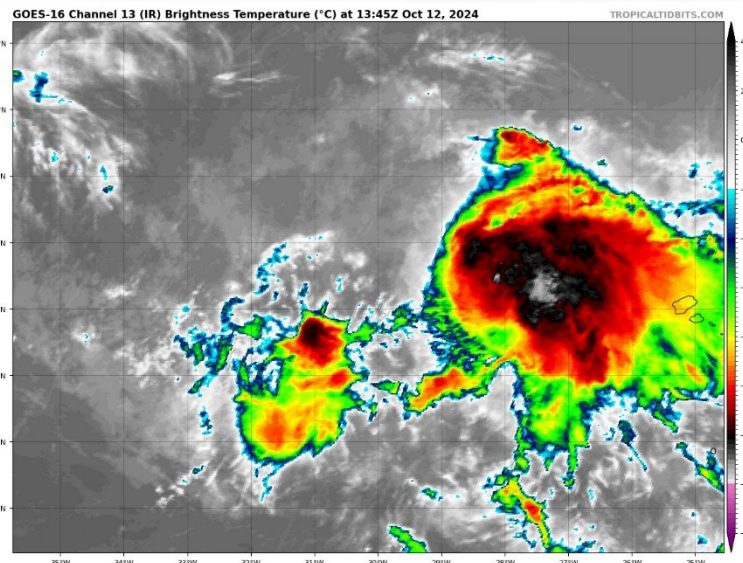
7 Day Formation

The circulation associated with an area of low pressure located a couple of hundred miles west of the Cabo Verde Islands appears to have become slightly better defined this morning. However, the associated shower and thunderstorm activity is only marginally well-organized, and environmental conditions are expected to become less conducive for development later today. A short-lived tropical depression could still form at any time today while the system moves generally westward. After that time, the system is forecast to continue moving westward across the central tropical Atlantic, but further development is not anticipated through at least the middle of next week.

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

Chance of development through 48 hours...**medium...40%**

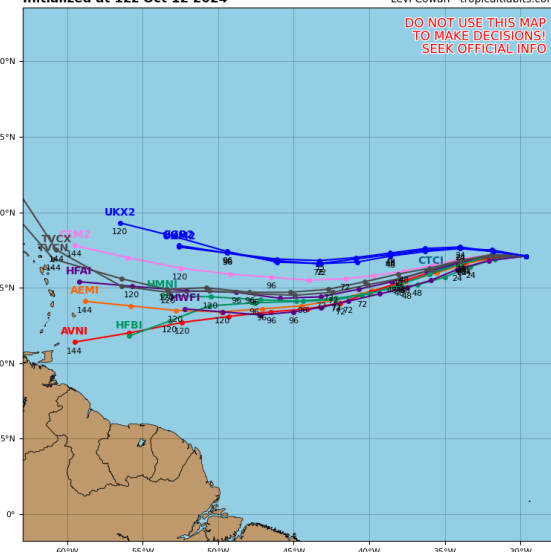
Chance of development through 7 days...**medium...40%**



Invest 94L Model Track Guidance

Initialized at 12z Oct 12 2024

Levi Cowan - tropicaltidbits.com



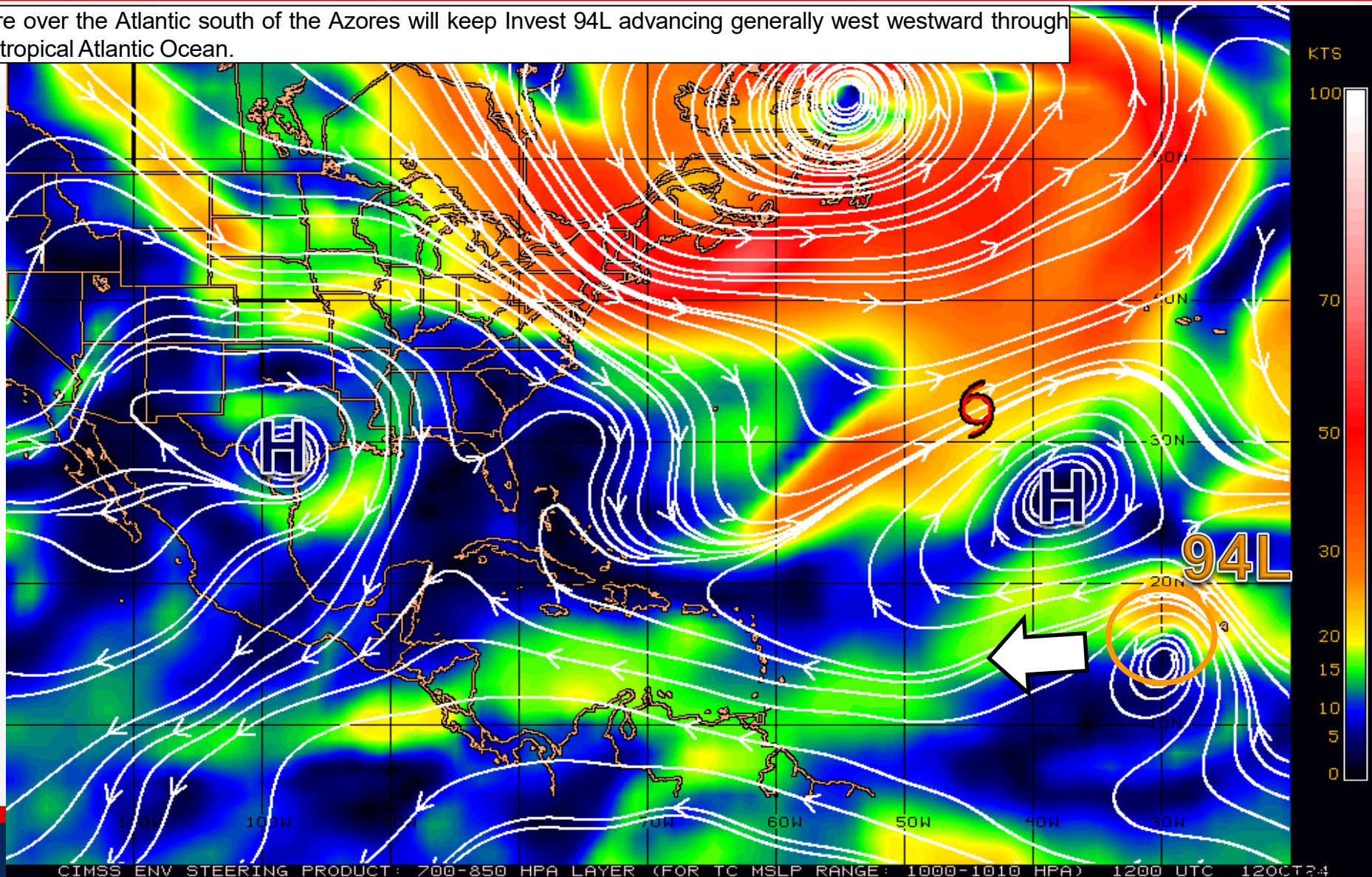


Steering Currents

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 generally west westward through the eastern and central tropical Atlantic Ocean.



Fast Moving Storm

Fast Moving Storm

Typical Moving Storm

Slow Moving Storm

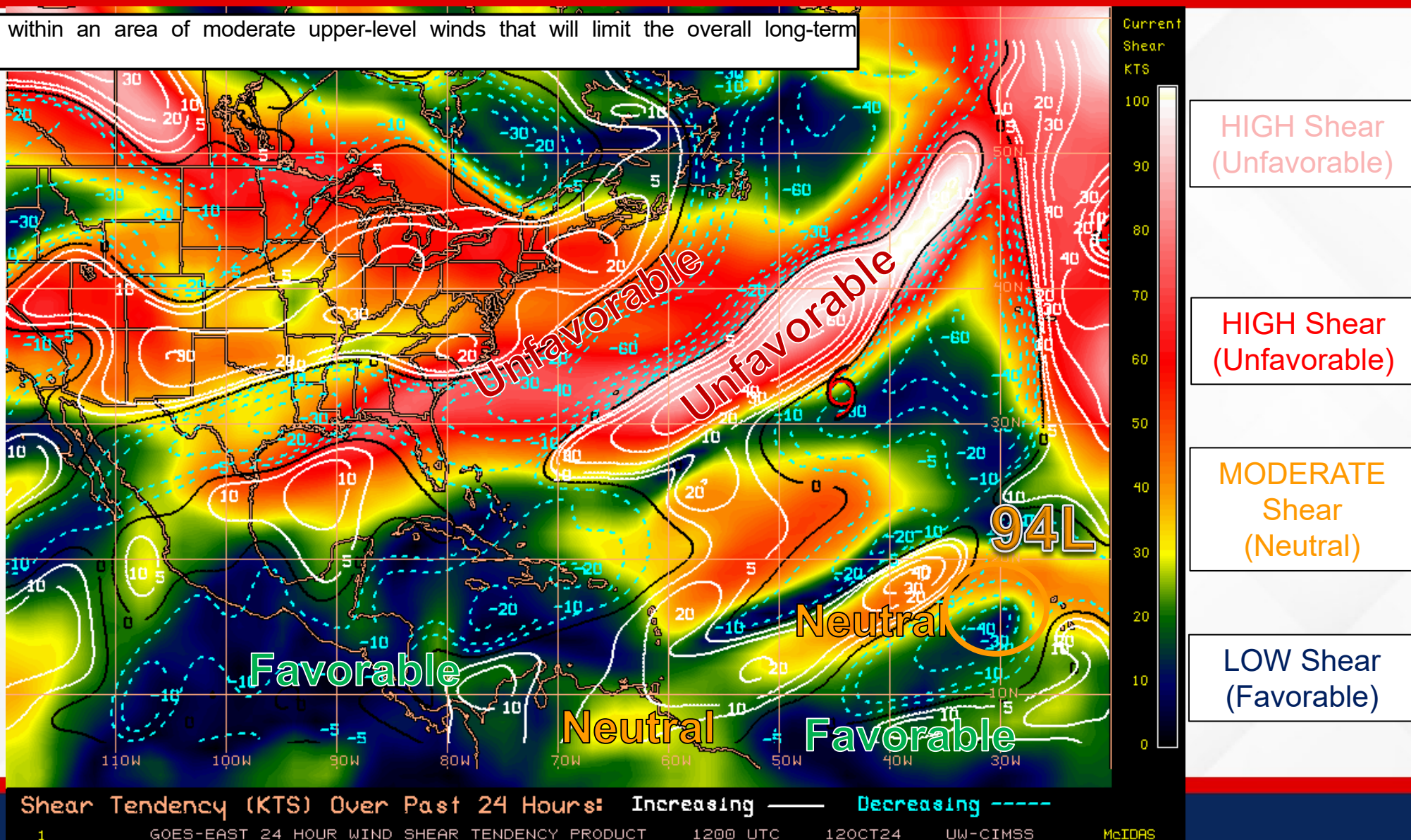


Wind Shear

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 will limit the overall long-term development of the system.





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

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

Very Dry

Very Dry

Moist

Dry

Moist

Dry

Moist

Moist

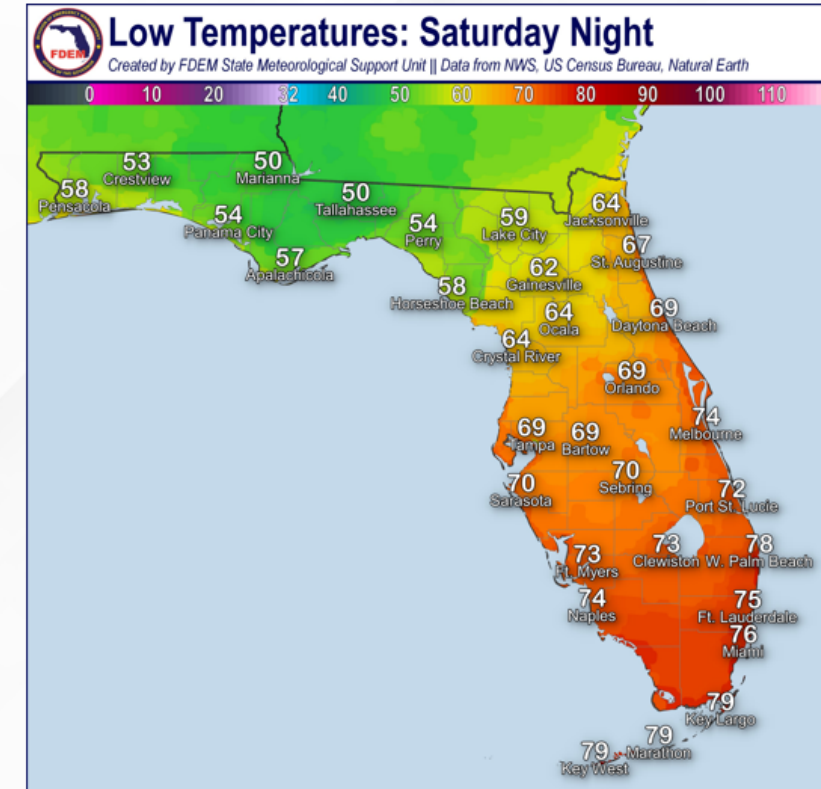
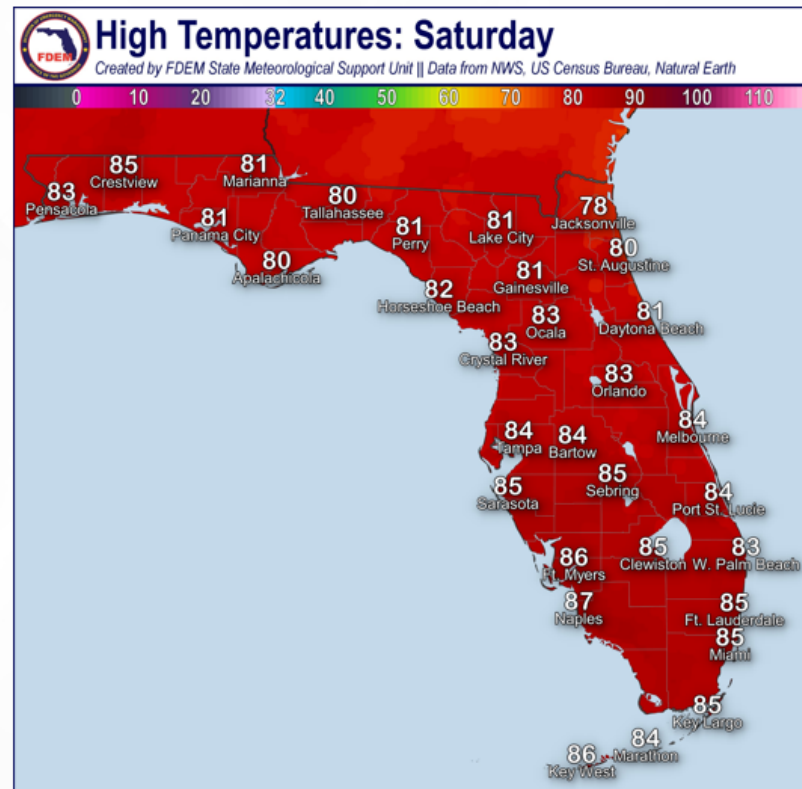
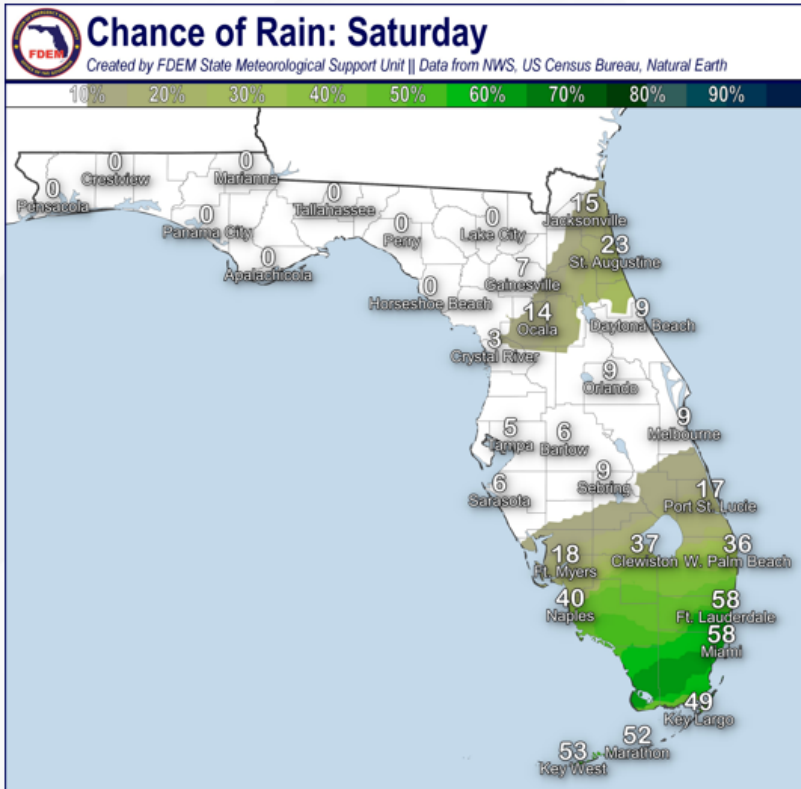
94L

GOES-16: SAHARAN AIR LAYER TRACKING PRODUCT 12:00 UTC 12 OCTOBER 2024 UW-CIMSS/NOAA-HRD



Recovery Weather - Friday

Rain Chances, High Temperatures, & Low Temperatures





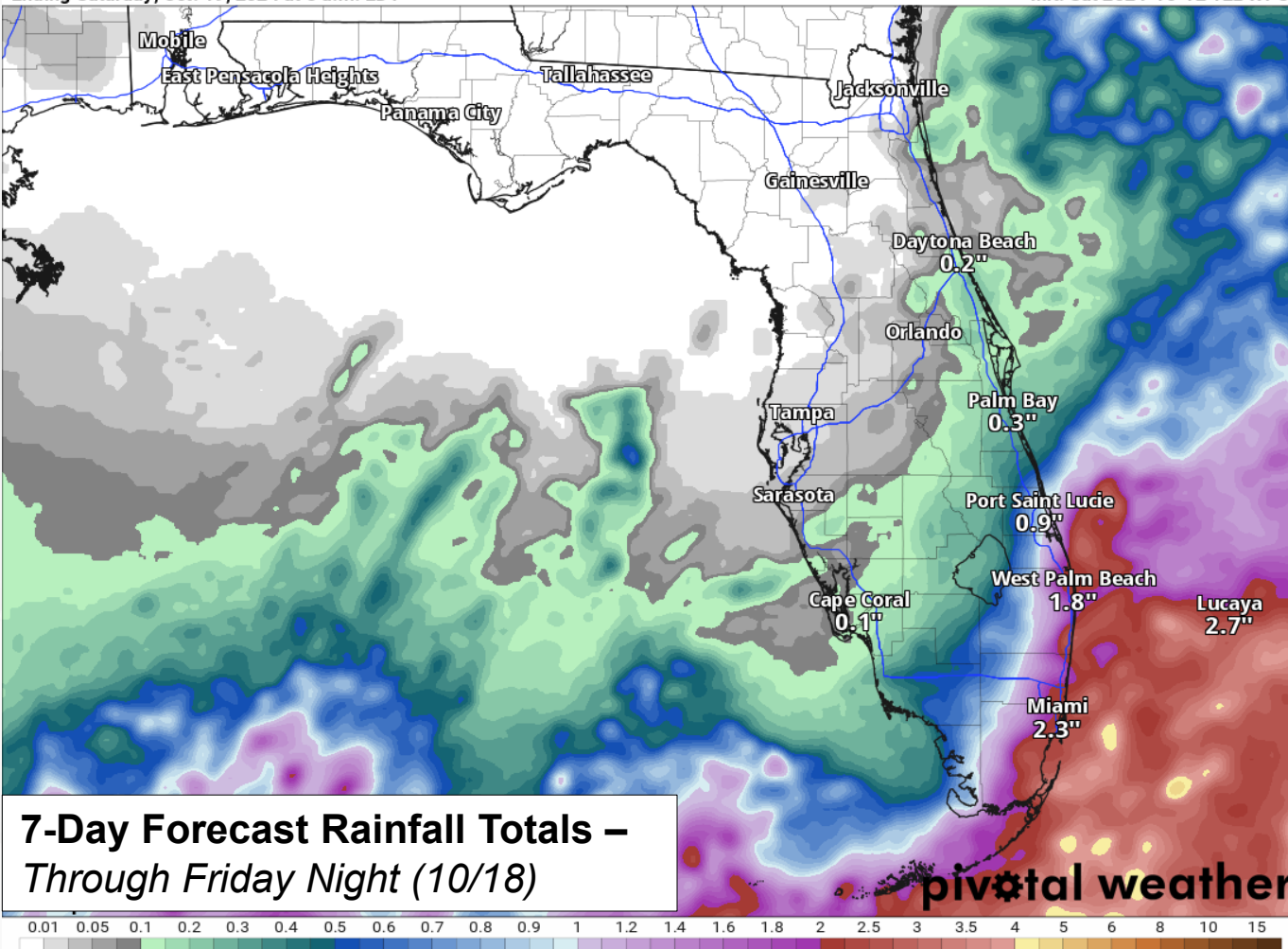
Rainfall Totals – Next 7 Days

From the Weather Prediction Center (WPC)

7-Day Precipitation (in)

Ending Saturday, Oct. 19, 2024 at 8 a.m. EDT

Init: Sat 2024-10-12 12z WPC

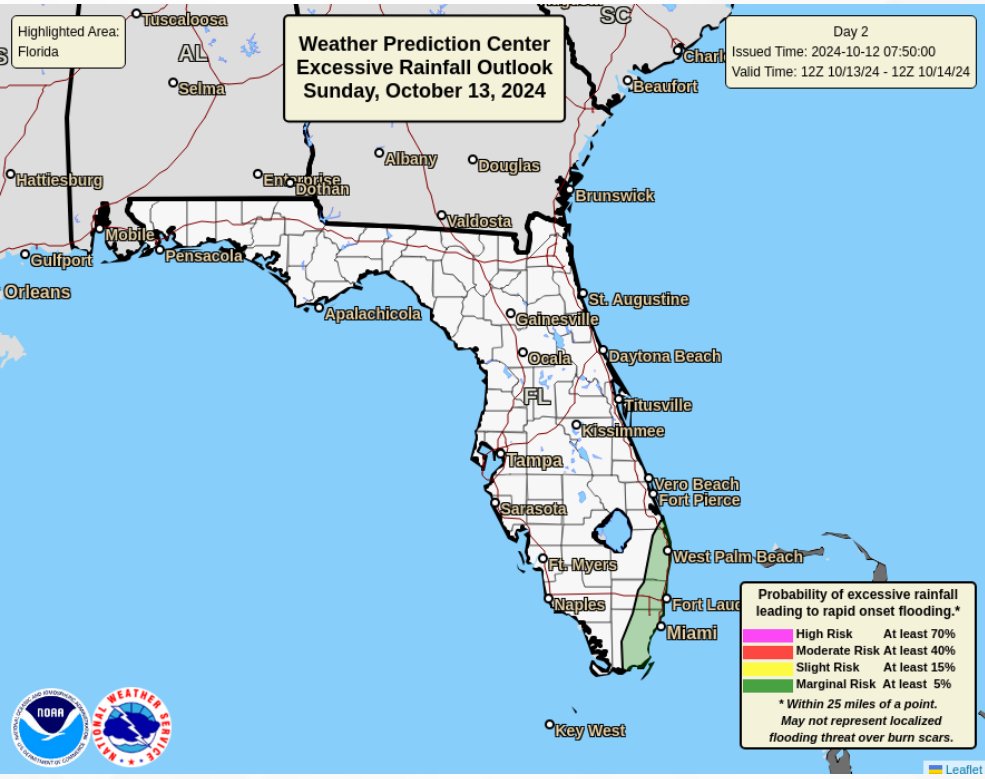
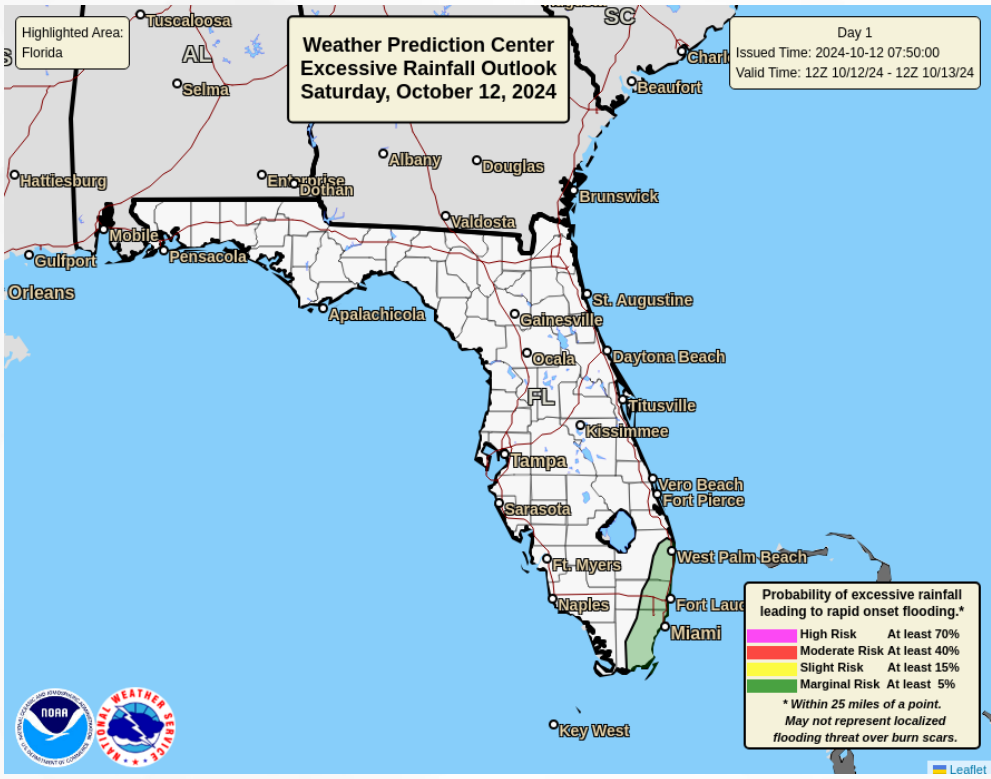


- Mostly sunny and pleasant conditions expected statewide through the weekend and into next week.
- Isolated to widely scattered showers and thunderstorms will continue to be possible along the Eastern Peninsula and along and south of the I-4 corridor over the coming days.
- More scattered to numerous 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 – This Weekend

From the Weather Prediction Center (WPC)

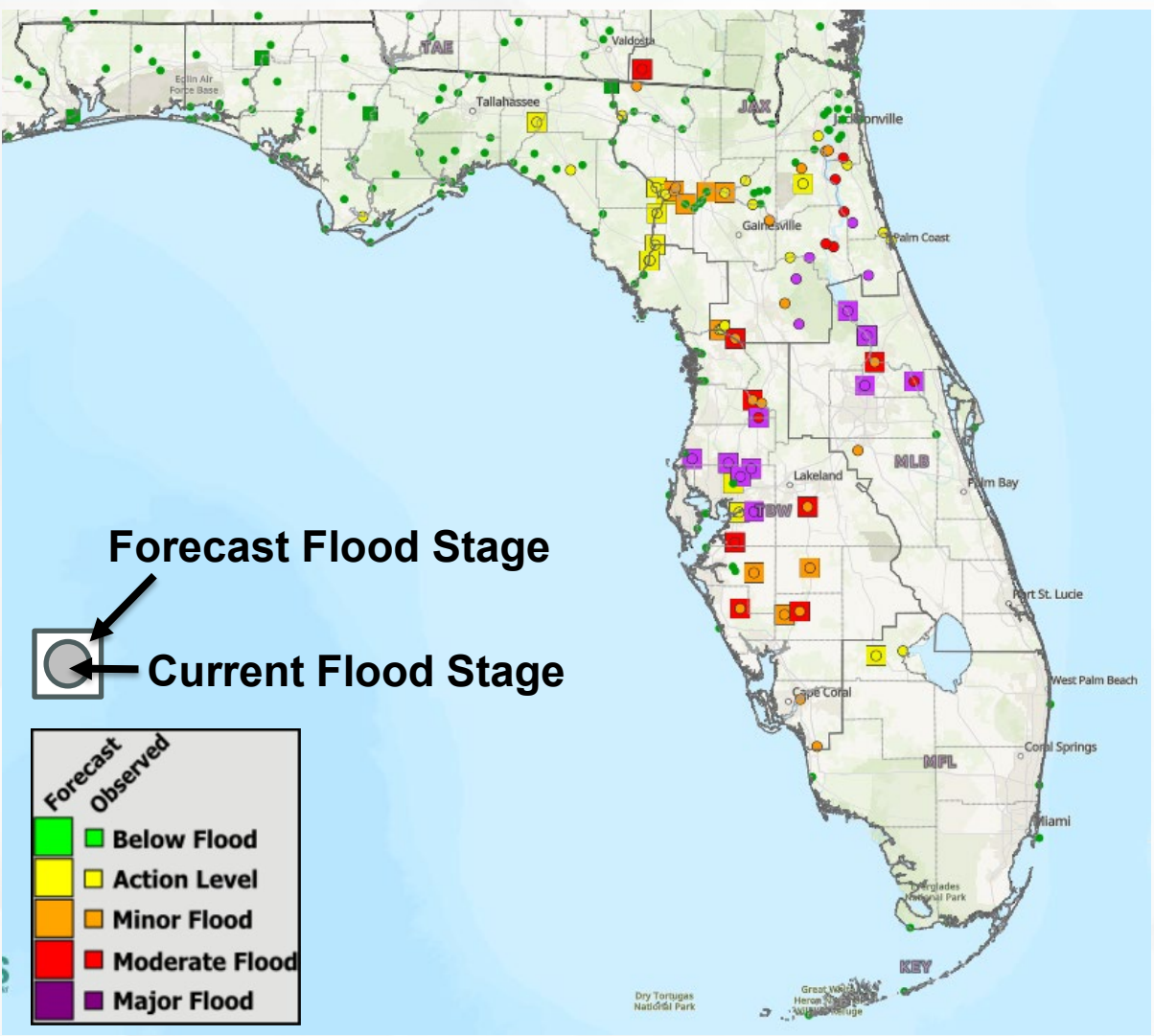


The Weather Prediction Center (WPC) is outlooking a **Marginal Risk (level 1 of 4) for Flash Flooding** along the Southeast Coast today and Saturday as a frontal boundary lifts northward and moisture returns, allowing for scattered showers and thunderstorms across the region this weekend. Heavy downpours 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**.



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 remaining above or forecast to rise near or above record flood stage**.

Major Flood Stage is ongoing along the [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](#), St. Johns River ([at Astor](#) and [near Deland](#)), and [Little Wekiva River near Altamonte Springs](#). 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.

Moderate flooding is ongoing along the [Withlacoochee River at US-301 Trilby](#) and [St. Johns River above Lake Harney](#) which are forecast to rise into **Major Flood Stage** within the next few days as well as along the [Little Manatee near Wimauma](#) as water levels gradually decline.

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

Water levels have reached **Minor Flood Stage** along the [Myakka river at Myakka River State Park](#), Withlacoochee River ([near Holder at SR-200](#) and [at Croom](#)), Peace River ([at SR-60 Bartow](#) and [at SR-70 Arcadia](#)), 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 [Manatee River near Myakka Head at SR-64](#), [Horse Creek near Arcadia SR-72](#), [Peace River at Zolfo Springs](#), [Withlacoochee River at US-41 Dunnellon](#), and Santa Fe River ([Three Rivers Estates](#), [Fort White](#), [O'leno](#), [Worthington Springs](#)).

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



River Flood Warnings

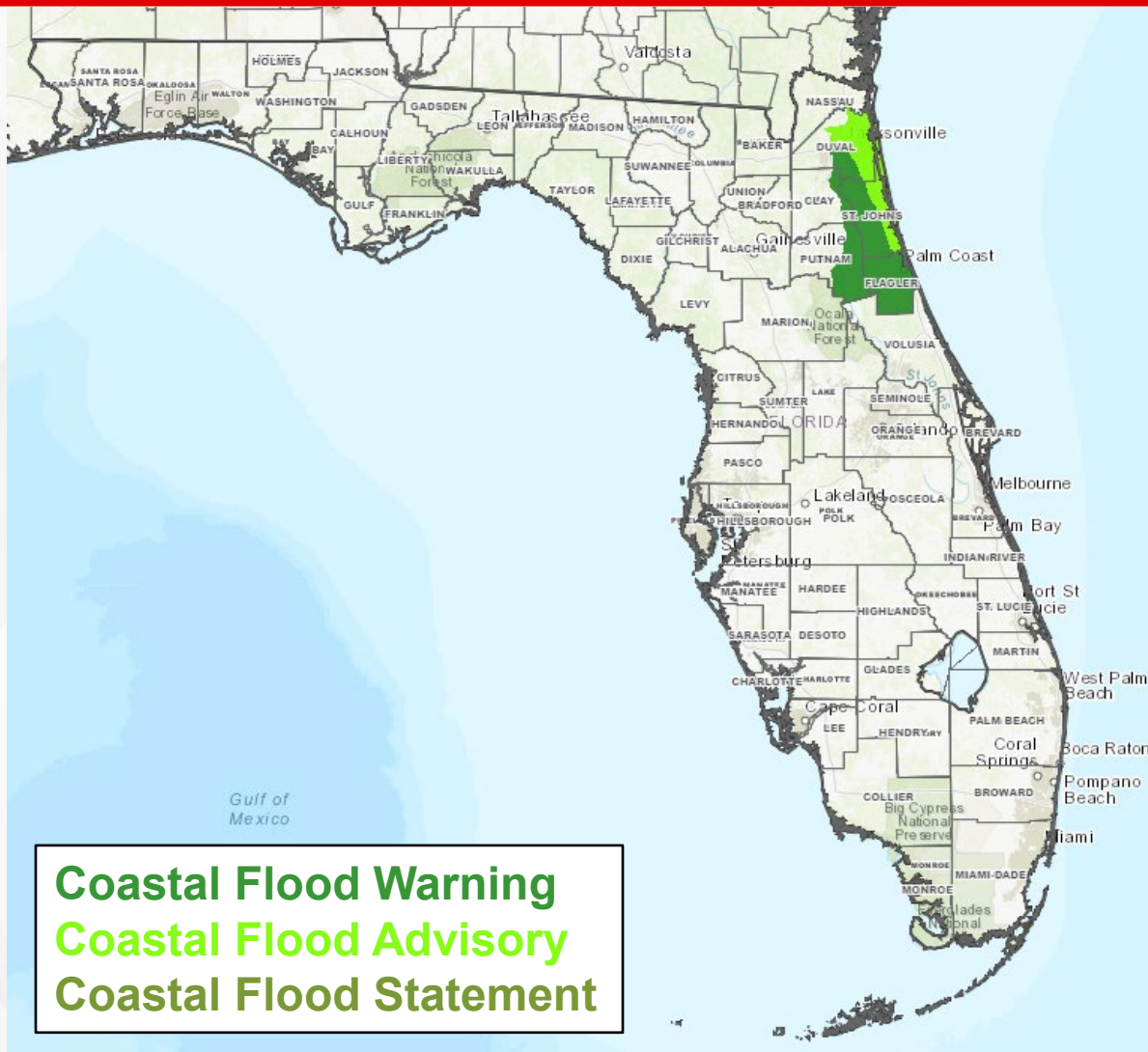
From the National Weather Service

River Gauge	County(ies) Affected	Current Level	Crest Level	Record Level	Status	Crest Day	Warning Expires
Alafia River at Lithia Pinecrest Road at Lithia	Hillsborough	Major: 22.28 ft	Major: 24.34 ft	28.50 ft	Falling	Crested	Until Further Notice
Anclote River near Elfers at Little Road	Pasco	Major: 26.57 ft	Major: 25.30 ft	27.70 ft	Falling	Crested	0017 EDT 15-Oct
Cypress Creek at SR-54 Worthington Gardens	Pasco	Major: 14.56 ft	Major: 15.00 ft	13.80 ft	Rising	13-Oct	Until Further Notice
Hillsborough River near Zephyrhills	Hillsborough	Major: 15.97 ft	Major: 17.14 ft	15.30 ft	Falling	Crested	Until Further Notice
Hillsborough River at Morris Bridge	Hillsborough	Major: 38.10 ft	Major: 38.10 ft	34.70 ft	Cresting	12-Oct	Until Further Notice
Horse Creek near Arcadia at SR-72	DeSoto	Minor: 13.74 ft	Moderate: 14.37 ft	21.20 ft	Falling	11-Oct	Until Further Notice
Little Manatee River near Wimauma at US-301	Hillsborough	Moderate: 14.90 ft	Major: 17.12 ft	20.10 ft	Falling	Crested	0800 EDT 15-Oct
Manatee River near Myakka Head at SR-64	Manatee	Minor: 11.50 ft	Moderate: 15.77 ft	20.90 ft	Falling	Crested	0100 EDT 13-Oct
Myakka River at Myakka River State Park	Sarasota	Minor: 8.49 ft	Moderate: 9.10 ft	12.80 ft	Rising	14-Oct	Until Further Notice
Peace River at SR-60 Bartow	Polk	Minor: 8.57 ft	Moderate: 9.40 ft	11.10 ft	Rising	16-Oct	Until Further Notice
Peace River at Zolfo Springs	Hardee	Minor: 18.72 ft	Minor: 19.50 ft	27.20 ft	Rising	14-Oct	Until Further Notice
Peace River at SR-70 Arcadia	DeSoto	Minor: 13.88 ft	Moderate: 14.10 ft	23.70 ft	Rising	13-Oct	Until Further Notice
Santa Fe River at Three Rivers Estates	Columbia, Gilchrist, Suwannee	Minor: 18.89 ft	Minor: 19.50 ft	33.40 ft	Rising	16-Oct	Until Further Notice
Santa Fe River near Fort White	Columbia, Gilchrist	Below: 21.58 ft	Minor: 23.00 ft	35.40 ft	Rising	17-Oct	No Warning Issued
Santa Fe River at O'leno State Park	Alachua, Columbia	Below: 40.44 ft	Minor: 44.10 ft	57.10 ft	Rising	16-Oct	Until Further Notice
Santa Fe at Worthington Springs	Alachua, Bradford, Union	Action: 57.25 ft	Minor: 59.30 ft	71.20 ft	Rising	14-Oct	1400 EDT 16-Oct
St. Johns River at Astor	Volusia, Lake	Major: 4.79 ft	Major: 4.81 ft	4.70 ft	Steady	Crested	Until Further Notice
St. Johns River near Deland	Lake	Major: 5.38 ft	Major: 5.90 ft	6.30 ft	Rising	TBD	Until Further Notice
St. Johns River near Sanford	Seminole	Minor: 6.35 ft	Moderate: 7.90 ft	9.00 ft	Rising	TBD	Until Further Notice
St. Johns River above Lake Harney	Seminole, Volusia	Moderate: 8.21 ft	Major: 10.30 ft	12.70 ft	Rising	TBD	Until Further Notice
Little Wekiva River near Altamonte Springs 2N	Seminole	Major: 29.53 ft	Major: 30.08 ft	31.1 ft	Falling	Crested	Until Further Notice
Withlacoochee River at US-41 Dunnellon	Citrus, Marion	Action: 28.80 ft	Minor: 29.40 ft	33.00 ft	Rising	TBD	Until Further Notice
Withlacoochee River near Holder	Cirtus	Minor: 8.77 ft	Moderate: 9.80 ft	13.30 ft	Rising	TBD	Until Further Notice
Withlacoochee River at Croom	Pasco, Sumter	Minor: 9.69 ft	Moderate: 11.90 ft	15.20 ft	Rising	TBD	Until Further Notice
Withlacoochee River at US-301 Trilby	Hernando, Pasco	Moderate: 16.32 ft	Major: 17.40 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. Johns county through Sunday afternoon as heavy rainfall filtering in and trapped tides within the basin continue to give way to **significant coastal flooding** and some **shoreline erosion**.

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

A **Coastal Flood Warning** also remains in effect for coastal Flagler County through Sunday afternoon for **significant coastal flooding** and some **shoreline erosion**.

A **Coastal Flood Advisory** remains in effect through early Sunday morning along coastal St. Johns and Coastal Duval County along the Trout River for **minor coastal flooding** during times of high tide.

Coastal Flood Statements are in place along the bayside Upper Keys 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:

- The circulation associated with an area of low pressure located a couple of hundred miles west of the Cabo Verde Islands appears to have become slightly better defined this morning.
- However, the associated shower and thunderstorm activity is only marginally well-organized, and environmental conditions are expected to become less conducive for development later today.
- A short-lived tropical depression could still form at any time today while the system moves generally westward.
- After that time, the system is forecast to continue moving westward.
- After that time, the system is forecast to continue moving westward across the central tropical Atlantic, but further development is not anticipated through at least the middle of next week.
- The NHC is outlooking a **medium (40%) chance of development** over the next 48 hours, and a **medium (40%) 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 low to middle 90s possible across West-Central and South Florida and along the Keys.
- Low temperatures in the upper 40s to middle 50s across the Florida Panhandle, middle 50s to low 60s across the Suwannee Valley, upper 60s to low 70s along the Northeast Coast and Central Florida, middle to upper 70s across South Florida, and middle 80s along the Keys.
- Easterly to northeasterly winds with gusts near 10-15 mph will persist along the Peninsula throughout the day.
- 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 are forecast to **approach or break record levels**.
- Breezy onshore winds, high surf, and already elevated tides along the East Coast in the wake of Hurricane Milton continue to result in instances of coastal flooding.
 - **Coastal Flood Warnings** remain in effect along the St. Johns River Basin and coastal St. Johns county through Sunday afternoon for **significant coastal flooding** and **some shoreline erosion**; **Minor to moderate coastal** flooding persists even at times of low tide along the St. Johns River Basin.
 - A **Coastal Flood Warning** remains in effect for coastal Flagler County through Sunday afternoon for **significant coastal flooding** and **some shoreline erosion**.
 - A **Coastal Flood Advisory** remains in effect through early Sunday morning along coastal St. Johns and Coastal Duval County along the Trout River for **minor coastal flooding**.
 - **Coastal Flood Statements** are in place along the bayside Upper Keys as **minor saltwater flooding less than 1' above normal dry ground** near and at times of high tide.

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



Tropical Update

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State Meteorological Support Unit

Florida Division of Emergency Management

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