

Tropical Update



11:30 AM EDT

Monday, October 14, 2024

Milton Recovery Weather & Riverine Flooding Eastern Tropical Atlantic Disturbance - Invest 94L (50%)

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.

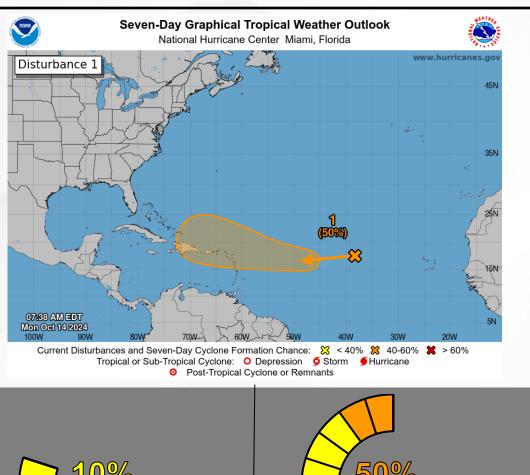


Atlantic Basin Satellite Image





Tropical Weather Outlook Invest 94L - Eastern Tropical Atlantic



48 Hour Formation

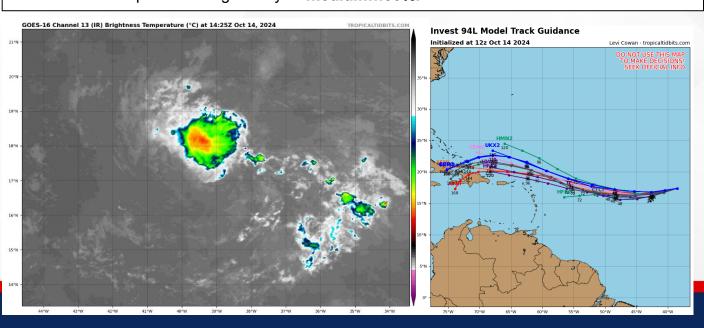
7 Day Formation

A well-defined area of low pressure located several hundred miles west of the Cabo Verde Islands is producing some disorganized showers and thunderstorms. This system is currently embedded in a dry environment, and development is unlikely over the next couple of days. However, this system is forecast to move generally westward toward warmer waters, and environmental conditions could become more favorable for gradual development by the middle to latter part of this week. A tropical depression could form as the system begins moving westnorthwestward and approaches or moves near the Leeward Islands late 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%.

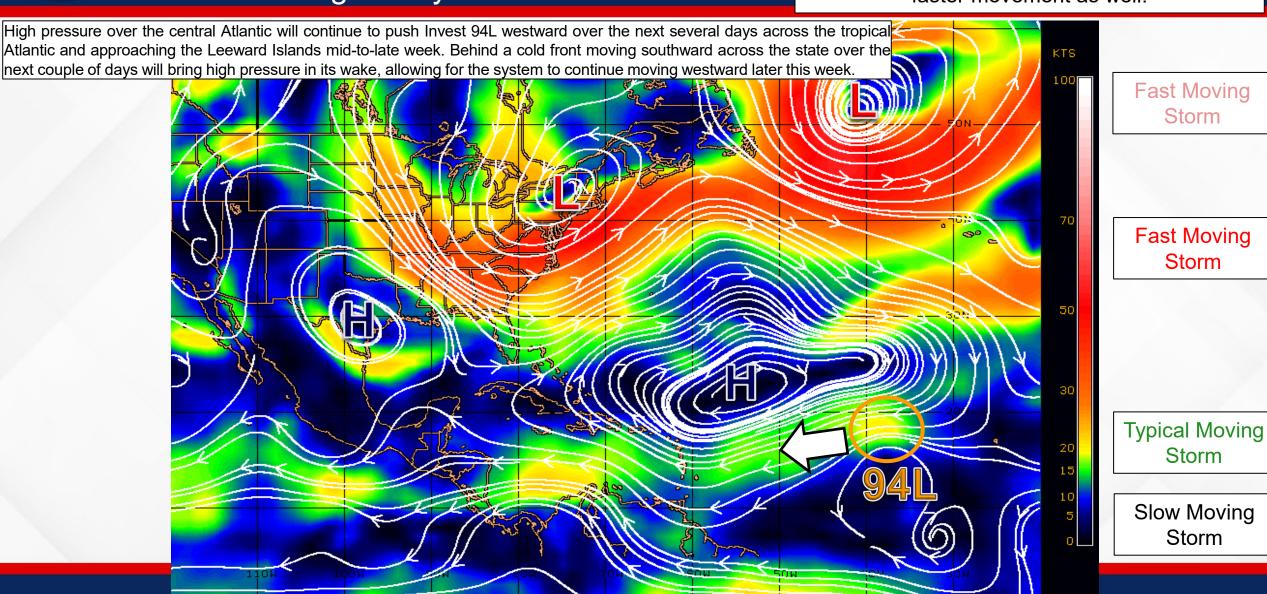
Chance of development through 7 days...medium...50%.





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.



CIMSS ENV STEERING PRODUCT: 700-850 HPA LAYER (FOR TO MSLP RANGE: 1000-1010 HPA) 1200 UTC 140CTR4



Wind Shear

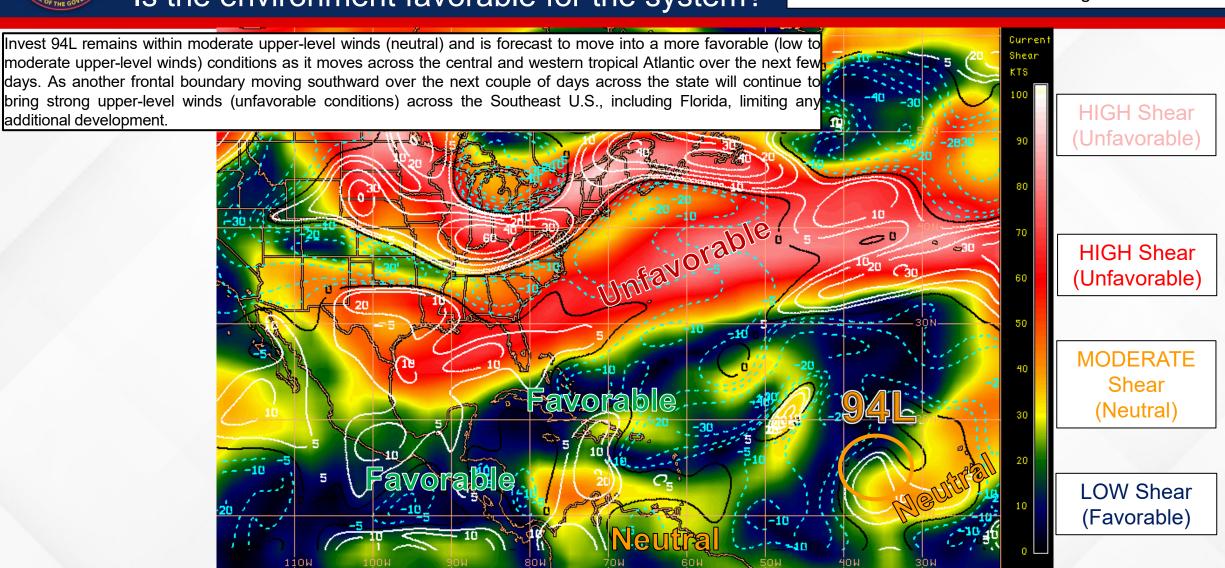
Is the environment favorable for the system?

Shear Tendency (KTS) Over Past 24 Hours

GOES-EAST 24 HOUR WIND SHEAR TENDENCY PRODUCT

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.

McIDAS



Increasing -

1200 UTC

Decreasing

140CT24



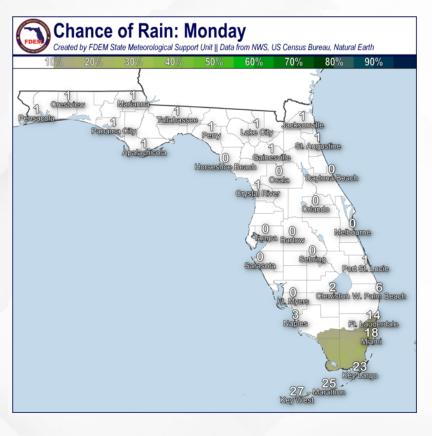
Dry Air & Saharan Dust Is the environment favorable for the system?

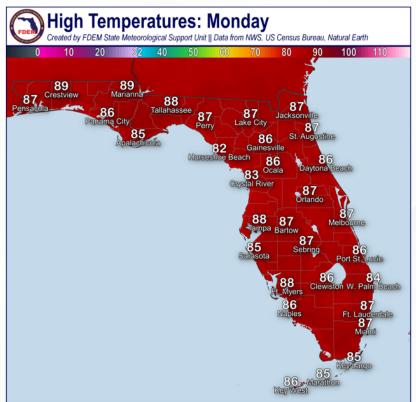
Color denotes concentration of Saharan Dust or dry, stable air.

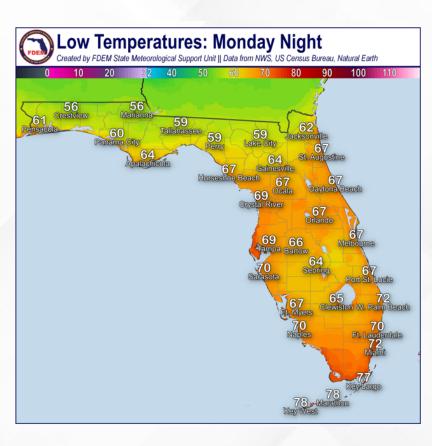
Invest 94L remains entrapped within dry air and will continue to battle dry air as it moves westward to westnorthwestward over the next few days. **Very Dry** Very Dry Moist Moist



Rain Chances, High Temperatures, & Low Temperatures



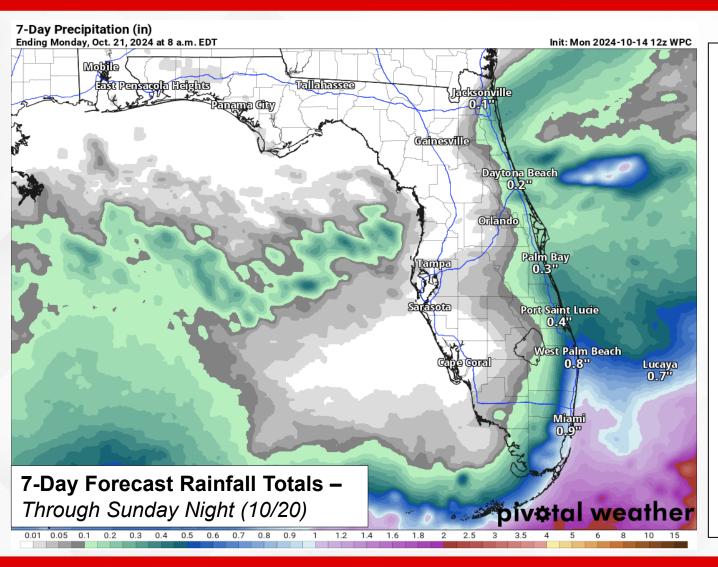






Rainfall Totals – Next 7 Days

From the Weather Prediction Center (WPC)

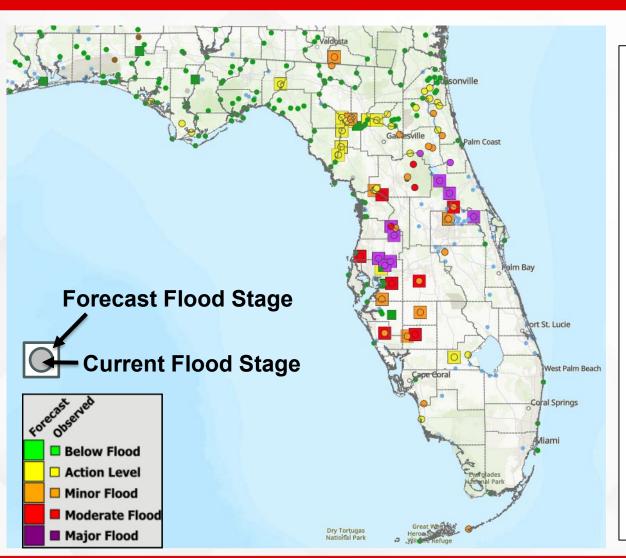


- Cold front to move from north to south beginning this evening; however, rainfall associated with this front will be minimal.
- The greatest shower and thunderstorm potential will reside along the immediate Florida East Coast and along the Florida Keys over the next 7 days.
- Widespread rainfall totals near 1-2" are expected across South Florida and northward along the Treasure and Space Coasts with locally higher totals upwards of 2-3" possible along the Southeast Florida Coast and Keys.



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, Cypress Creek at SR-54, Hillsborough River (near Zephyrhills and at Morris Bridge), and St. Johns River (at Astor, near Deland, above Lake Harney). 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 Anclote River near Elfers at Little Road and Alafia River at Lithia Pinecrest Road at Lithia, and Peace River at SR-70 Arcadia. The Withlacoochee River near Croom is currently within moderate flood stage and is forecast to reach major flooding in the next couple of days; further downstream, water levels are quickly approaching moderate flood stage near Holder.

Water levels have reached Minor Flood Stage along the <u>Peace River at SR-60 Bartow</u>, and the <u>St. Johns River near Sanford</u> and are forecast to continue rising, reaching <u>Moderate Flood Stage</u> in the coming days. For more details, please visit the <u>River Forecast Center</u>.



River Flood Warnings

From the National Weather Service

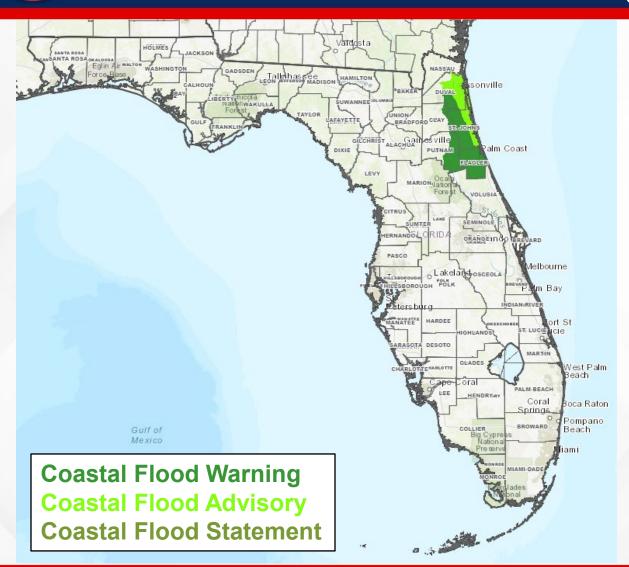
River Gauge	County(ies) Affected	Current Level	Crest Level	Record Level	Status 💌	Crest Day ▼	Warning Expires
Alafia River at Lithia Pinecrest Road at Lithia	Hillsborough	Moderate: 16.90 ft	Major: 24.34 ft	28.50 ft	Falling	Crested	0001 EDT 18-Oct
Anclote River near Elfers at Little Road	Pasco	Moderate: 22.10 ft	Major: 25.30 ft	27.70 ft	Falling	Crested	0030 EDT 15-Oct
Cypress Creek at SR-54 Worthington Gardens	Pasco	Major: 14.80 ft	Major: 15.08 ft	15.08 ft	Cresting	13-Oct	Until Further Notice
Hillsborough River near Zephyrhills	Hillsborough	Major: 14.00 ft	Major: 17.14 ft	17.14 ft	Falling	Crested	Until Further Notice
Hillsborough River at Morris Bridge	Hillsborough	Major: 37.50 ft	Major: 38.16 ft	38.16 ft	Cresting	13-Oct	Until Further Notice
Horse Creek near Arcadia at SR-72	DeSoto	Minor: 13.3 ft	Moderate: 14.37 ft	21.20 ft	Falling	11-Oct	Until Further Notice
Little Manatee River near Wimauma at US-301	Hillsborough	Minor: 13.30 ft	Major: 17.12 ft	20.10 ft	Falling	Crested	0800 EDT 15-Oct
Myakka River at Myakka River State Park	Sarasota	Moderate: 8.50 ft	Moderate: 9.00 ft	12.80 ft	Steady	14-Oct	Until Further Notice
Peace River at SR-60 Bartow	Polk	Minor: 8.81 ft	Moderate: 9.30 ft	11.10 ft	Rising	16-Oct	Until Further Notice
Peace River at Zolfo Springs	Hardee	Minor: 18.00 ft	Minor: 18.72 ft	27.20 ft	Falling	Crested	Until Further Notice
Peace River at SR-70 Arcadia	DeSoto	Moderate: 14.46ft	Moderate: 14.50 ft	23.70 ft	Cresting	13-Oct	Until Further Notice
Santa Fe River at Three Rivers Estates	Columbia, Gilchrist, Suwannee	Minor: 18.80 ft	Minor: 18.89 ft	33.40 ft	Steady	16-Oct	Until Further Notice
Single Creek at Campbell	Osceola	Minor: 60.18 ft	Minor: 60.61 ft	64.20 ft	Falling	13-Oct	Until Further Notice
St. Johns River at Astor	Volusia, Lake	Major: 4.60 ft	Major: 4.81 ft	4.81 ft	Steady	Crested	Until Further Notice
St. Johns River near Deland	Lake	Major: 5.49 ft	Major: 5.80 ft	6.30 ft	Rising	TBD	Until Further Notice
St. Johns River near Sanford	Seminole	Minor: 6.78 ft	Moderate: 7.60 ft	9.00 ft	Rising	TBD	Until Further Notice
St. Johns River above Lake Harney	Seminole, Volusia	Major: 10.02 ft	Major: 10.30 ft	12.70 ft	Rising	TBD	Until Further Notice
Little Wekiva River near Altamonte Springs 2N	Seminole	Minor: 28.70 ft	Major: 30.08 ft	31.1 ft	Falling	Crested	Until Further Notice
Withlacoochee River at US-41 Dunnellon	Citrus, Marion	Action: 28.90 ft	Minor: 29.10 ft	33.00 ft	Rising	TBD	Until Further Notice
Withlacoochee River near Holder	Cirtus	Moderate: 9.01 ft	Moderate: 9.40 ft	13.30 ft	Rising	TBD	Until Further Notice
Withlacoochee River at Croom	Pasco, Sumter	Moderate: 11.11 ft	Moderate: 13.10 ft	15.20 ft	Rising	TBD	Until Further Notice
Withlacoochee River at US-301 Trilby	Hernando, Pasco	Major: 18.22 ft	Major: 19.00 ft	20.40 ft	Rising	TBD	Until Further Notice

Last Updated: 0800 EDT 13-Oct



Coastal Flooding

From the National Weather Service (NWS)



Coastal Flood Warnings and Coastal Flood Advisories remain in effect along the St. Johns River Basin and the Northeast Florida Coast as minor coastal flooding will largely continue, especially at or near times of high tide.

In the wake of this week's cold front, we will have to monitor the reintroduction of strong northerly to northeasterly winds along the St. Johns River basin. Winds out of this direct will likely lead to further drainage and discharge issues from locations upstream (south of Lake George). Onshore winds in addition to already above normal high tides (King Tide), water levels along the downstream/tidal portions of the St. Johns River will likely return to widespread minor to moderate flood stage. Additional Coastal Flood products will be issued as conditions warrant.

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Eastern Tropical Atlantic - Invest 94L:

- A well-defined area of low pressure located several hundred miles west of the Cabo Verde Islands is producing some disorganized showers and thunderstorms.
- This system is currently embedded in a dry environment, and development is unlikely over the next couple of days.
- However, this system is forecast to move generally westward toward warmer waters, and environmental conditions could become more favorable for gradual development by the middle to latter part of this week.
- A tropical depression could form as the system begins moving west-northwestward and approaches or moves near the Leeward Islands late this week.
- The NHC is outlooking a low (10%) chance of development over the next 48 hours, and a medium (50%) 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.
- 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 water level records have been broken with the excess heavy rainfall from Hurricane Milton.
 - 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 minor coastal flooding, especially at or near times of high tide.
 - 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.
 - In the wake of this week's cold front, we will have to monitor the reintroduction of strong northerly to northeasterly winds along the St. Johns River basin. Winds out of this direct will likely lead to further drainage and discharge issues from locations upstream (south of Lake George). Onshore winds in addition to already above normal high tides (King Tide), water levels along the downstream/tidal portions of the St. Johns River will likely return to widespread minor to moderate flood stage.
 - Additional Coastal Flood products will be issued as conditions warrant.



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Florida Division of Emergency Management

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