

Tropical Update



10:45 AM EDT

Thursday, June 27, 2024

Invest 94L (30%) to Move West-Northwest Toward the Yucatan Peninsula; Invest 95L (70%) Working to Become More Organized in the Eastern Tropical Atlantic

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 <u>www.hurricanes.gov</u>.



Tropical Weather Outlook Disturbance 1 – Invest 94L (LINK)



A tropical wave over the western Caribbean Sea, Invest 94L, is producing widespread but disorganized shower and thunderstorm activity while it moves westward at around 20 mph. Some development of this system is possible over the northwestern Caribbean Sea or southwestern Gulf of Mexico during the next several days.

This system poses no threat to Florida.

- * Formation chance through 48 hours...low...10%
- * Formation chance through 7 days...low....30%



Tropical Weather Outlook Disturbance 2 – Invest 95L (LINK)



A tropical wave, located several hundred miles west-southwest of the Cabo Verde Islands, continues to produce disorganized shower and thunderstorm activity. Atmospheric and oceanic conditions are forecast to be conducive, and the development of Invest 95L is anticipated. A tropical depression or tropical storm is likely to form this weekend several hundred miles east of the Windward Islands while it moves westward at 15 to 20 mph.

Invest 95L poses no threat to Florida over the next 7-10 days, but this system will be monitored this weekend into next week.

* Formation chance through 48 hours...medium...40%
* Formation chance through 7 days...high...70%



While shower and thunderstorm activity remains disorganized on satellite this morning, Invest 95L continues to work to develop a more defined center under the influence of weaker upper-level winds.

Model Forecasts – Next 5 Days Invest 95L

Computer model

strengthen into a

next 36-48 hours.



Invest 95L Model Track Guidance

80°W

75°W

70°W

65°W

60°W

55°W

50°W

40°W

45°W

35°W

Computer models are in very good agreement that Invest 95L will maintain a general westward motion over the next 3-4 days, approaching the Windward Islands later this weekend and into early next week. From the eastern Caribbean Sea and onward, we see forecast uncertainty increase in both time and track. The center of this system has not developed yet, and changes to the forecast across computer models can be expected.

Computer forecast models are in good agreement that Invest 95L may organize into a tropical depression or tropical storm in the next 36-48 hours. Much beyond the weekend, forecast computer models vary greatly regarding the intensity of Invest 95L – as Invest 95L becomes better defined and more organized in the coming days, trends in forecast intensity will work toward a consensus.



Model Forecasts – Next 7 Days Atlantic Basin



Computer forecast models are in good agreement that Invest 94L will continue moving west-northwestward over the western Caribbean Sea, approaching the Yucatan Peninsula Friday into Saturday. The system could then emerge over the Bay of Campeche and southwestern Gulf of Mexico this weekend and early next week, taking a similar path as Invest 93L and Tropical Storm Alberto into northeastern Mexico.

Computer models have continued to show a strong signal for Invest 95L as it approaches the Windward Islands and the eastern Caribbean Sea this weekend and into early next week. Beyond 3 to 4-day timeframe, the spread of solutions and uncertainty across computer forecast models increases significantly over the eastern and central Caribbean Sea. As Invest 95L works to become an organized and well-defined system, forecast computer models will work toward a consensus; trends will be monitored as we enter the weekend and early next week.



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





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.



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

Moist

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

Very Dry

Invest 94L will continue to move west-northwestward within a moist airmass, conditions favorable for the system to maintain its shower and thunderstorm activity.

Invest 95L currently remains south of a swath of a very dry region of Saharan air; however, the system could ingest dry air from the north as it moves generally westward over the next several days which would limit its near-term organization. Should Invest 95L continue to reside south and away from the dry air mass, ample tropical moisture will allow the system to organize its shower and thunderstorm activity.

Moist

Sea Surface Temperatures & Anomalies Is the ocean favorable for the system?

Temperatures across the Atlantic Basin are supportive of tropical cyclone development. Waters across the deep tropical Atlantic and Gulf of Mexico 0.5 to 1.5-degrees above normal for this time of year.





75



Invest 94L – Western Caribbean/Southwestern Gulf of Mexico:

- A tropical wave over the western Caribbean Sea, Invest 94L, is producing widespread but disorganized shower and thunderstorm activity while it moves westward at around 20 mph.
- Some development of this system is possible over the northwestern Caribbean Sea or southwestern Gulf of Mexico during the next several days.
- The National Hurricane Center 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 threat to Florida.

Invest 95L – Eastern Tropical Atlantic:

- A tropical wave, located several hundred miles west-southwest of the Cabo Verde Islands, continues to produce disorganized shower and thunderstorm activity.
- Atmospheric and oceanic conditions are forecast to be conducive, and the development of Invest 95L is anticipated.
- A tropical depression or tropical storm is likely to form this weekend several hundred miles east of the Windward Islands while it moves westward at 15 to 20 mph.
- The National Hurricane Center is outlooking a medium (40%) chance of development over the next 48 hours, and a high (70%) chance of development over the next 7 days.
- Invest 95L poses no threat to Florida over the next 7-10 days, but this system will be monitored this weekend into next week.

Florida Outlook:

- Higher coverage of scattered to numerous showers and thunderstorms expected statewide today (55-85% chance of rain).
- A few thunderstorms may be strong to severe during the daytime heating hours, and capable of producing frequent lightning and gusty winds (45 to 60 mph).
- Nuisance flooding and ponding water will be possible along the urban corridors of the Sunshine State as slow-moving thunderstorms produce locally heavy rainfall rates and downpours.
- Triple digit heat indices, nearing Heat Advisory criteria, are expected statewide this afternoon, with temperatures feeling like 100 to 105-degrees.
- The next name on the list is Beryl (BEHR-ril).

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



Tropical Update



Created by:

Caitlyn Gillespie, Deputy State Meteorologist

Caitlyn.Gillespie@em.myflorida.com

State Meteorological Support Unit

Florida Division of Emergency Management

Users wishing to subscribe (approval pending) to this distribution list, register at: https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic_id=SERT_Met_Tropics. Other reports available for subscription are available at: https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true