

TROPICAL UPDATE

10 AM EDT Tuesday, May 22, 2018 Invest Area 90L

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.nhc.noaa.gov.



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Atlantic Basin Satellite Image





- Formation chance through 48 hours is low, or near 0%
- Formation chance through five days is medium, or 40%

90L Infrared Satellite

05/22/18 00002 90L INVEST 05/22/18 09002 GOES-15 IR

Invest 90L is currently a broad area of low pressure. It currently lacks a defined center of circulation and most of the rainfall is displaced to the east.

410

Haval Research Lab http://www.mrlmry.mavy.mll/sat_products.html

-30	-746	-100	- 36).	 -30	-20	-10	0	10	26	



A non-tropical low pressure system over Alabama is pulling tropical moisture northward into the state, but is not directly associated with Invest 90L.



Steering Currents

B

Invest 90L will be steered slowly northward around high pressure near the Bahamas, which is expected to remain in place this week.

КТS

Current Wind Shear (shaded) and Shear Tendency (lines)



46 T D 8

24





The full suite of computer models are not available yet for this system and global models are in disagreement on track, which is typical for newly developing systems without a defined center of circulation. While they are in agreement that this will likely not be an intense system (weak tropical storm or less), the range of possibilities is between the central Gulf Coast and southwestern Florida.



0.7

0.2

Forecast Weather Map – This Weekend









Observed Rainfall Over Past 7 Days

All of Florida has had well above normal rainfall over the past 7-10 days. This results in saturated grounds that will reduce the amount of time and rain needed to create flood conditions.



Many West Central Florida rivers are now at above normal flow,

Mobile

Pensacola

Gothan

Albiny

Jahahassee

National Water Model Streamflow Anomalies Above Normal Flow Gulf of

Normal Flow





Forecast Total Rainfall Accumulations for next 3 Days



Forecast Total Rainfall Accumulations



inches are possible. This could result in street flooding and river flooding.

Forecast Total Rainfall Accumulations for next 7 Days





- Since soils are already saturated, any additional heavy rain (generally 3-4" in less than 3 hours) will cause flash flooding issues.
- Lower amounts, or 3-6" over a longer time period can still cause flooding of roads and low-lying areas.



In addition to the flash flooding potential, minor to moderate flooding on area rivers will be possible, but this will ultimately be dependent on where the heaviest rain falls. The areas for concern are currently in West Central Florida, the Florida Panhandle, and the Santa Fe River basin and Paynes Prairie State Park.

	News Legend								
	ems less than 24 hours old	News Items 1 to 7 days old		days old	No current News Items				
Map Legend									
	Chance of Excee	edance		River Forecast Centers					
30%	Leve	I 70)%						
0	Action			Middle Atlantic River Forecast Center					
0	Minor Flood			Northeast River Forecast Center					
•	Moderate Flood			Ohio River Forecast Center					
0	Major Flo	bod		Southe	ast River Forecast Center				
🕽 = less t	han 30% chance of r	eaching Action lev	vel						
0=	no critical levels defin	ed for this point							



Note: hydrograph forecasts only account for anticipated rainfall over the next 48 hours. Although a recession is forecast, additional rises this weekend are likely.

Summary

- A broad surface low centered just east of Belize, now named Invest 90L, is producing a large area of cloudiness and showers in the northwestern Caribbean Sea.
- This system is currently disorganized, and therefore has a large degree of uncertainty in regards to development and track.
- While strong upper-level winds and dry air aloft are expected to limit organization during the next couple of days, some gradual subtropical or tropical development is possible late this week while the system moves slowly northward into the central or eastern Gulf of Mexico.
- The full suite of computer models are not available yet for this system and global models are in disagreement on track, which is typical for newly developing systems, and the range of possibilities lies between the central Gulf Coast and southwestern Florida.
- Regardless of where the storm moves, upper level winds will continue to push a majority of the associated storminess to the east of the center of the system and across Florida.
- The first name on the 2018 Atlantic Storm name list is Alberto.

Florida Outlook:

- Regardless of development, locally heavy rainfall and flooding will be the main concern during the next several days, especially this weekend.
- Widespread rainfall amounts of 3-7" are expected along the Florida Gulf Coast, with locally higher amounts of 10+" possible.
- Flash Flood Watches are not in effect, but could be issued later this week.
- River flooding will also be a concern for portions of the state. River Flood Warnings are currently in effect for the Alafia River and Manatee River at Myakka Head. Additional river flood warnings will be possible.
- Increased wave heights of 2-5' are also expected along the Panhandle coast and will lead to a high risk of rip currents for the holiday weekend.

Another briefing packet will be issued Wednesday morning. For more information on this system visit the NHC website at www.nhc.noaa.gov



TROPICAL UPDATE

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