

TROPICAL UPDATE



5:00 PM EDT

Tuesday, August 10, 2021 Potential Tropical Cyclone Six & Invest 95L – Cabo Verde Islands (20%)

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.





Official Forecast Track

From the National Hurricane Center



- Potential Tropical Cyclone Six is located about 100 miles south of Puerto Rico, or about 1,100 miles southeast of Miami, Florida.
- Six currently has maximum sustained winds around 35 mph, and some strengthening is forecast over the next 24 hours before the system interacts with land.
- Development into Tropical Storm Fred is still expected today or tonight.
- Six will move over the mountainous terrain of Puerto Rico, Hispaniola, and/or Cuba. This makes the longer range intensity forecast uncertain, but significant strengthening is not forecast by NHC at this time.
- Six is moving west-northwest at 17 mph, and this general motion will continue over the next few days. This weekend, a northward turn is anticipated.
- The track has shifted slightly to the west, with greater confidence the system tracks into the eastern Gulf of Mexico and re-strengthens.

Time of Arrival & Wind Speed Probabilities

EARLIEST RESONABLE Time of Arrival of Tropical Storm Force Winds (>39 mph)



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City	Chance for TS Winds	Changes Since Last Packet
West Palm Beach	7%	-1%
Miami	6%	-4%
Key West	13%	-1%
Naples	14%	-1%
Ft. Myers	7%	+/-0%
Tampa	11%	+/-0%
Cedar Key	11%	+/-0%
Tallahassee	6%	+/-0%
Apalachicola	11%	+3%
Panama City	10%	+/-0%

There is a 1 in 10 chance of tropical storm force winds at this time for the Florida Keys and along coastal areas of Southeast Florida and the Florida Gulf Coast.

The earliest reasonable arrival time of tropical storm force winds in South Florida is Friday morning. They are most likely to begin Friday night or early Saturday morning.



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.

A large area of high pressure over the Atlantic will move PTC #6 generally west-northwest over the next few days, and the other tropical wave 95L westward.

Once PTC 6 is near South Florida, a northward turn seems likely at some point this weekend/early next week either in the eastern Gulf of Mexico or western Bahamas. High pressure over Florida will break down and allow the system to move near/over the state.





Dry Air & Saharan Dust

Is the environment favorable for the system?

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



FDEM PTCF OF THE GOVERNOR

Sea Surface Temperatures & Anomalies

Is the ocean favorable for the system?



Model Forecasts

Ensembles, Dynamical, and Statistical Models



PTC #6 will be in the vicinity of South Florida/Florida Straits Fri. night/Sat. and North Florida Sun./Mon.

Land interaction, dry air, and some wind shear will likely limit significant development between now and Thursday.

Strengthening is then possible as the system is near Florida or particularly in the Gulf of Mexico this weekend.







Key Messages

From the National Hurricane Center



FDEI

Key Messages for Potential Tropical Cyclone Six Advisory 5: 5:00 PM AST Tue Aug 10, 2021



1. The system is forecast to become a tropical storm as it moves over the northeastern Caribbean Sea tonight. Tropical storm conditions are expected in portions of the U.S. Virgin Islands and Puerto Rico tonight, and are expected to begin in the Dominican Republic by Wednesday. Tropical storm conditions are possible in northern Haiti and the southeastern Bahamas by late Wednesday.

2. Heavy rainfall could lead to flash, urban, and small stream flooding, along with possible rapid river rises and the potential for mudslides across the U.S. Virgin Islands, Puerto Rico, and the Dominican Republic. The greatest threat for flooding impacts will be across the eastern and southern portions of Puerto Rico.

3. There is a risk of wind and rainfall impacts elsewhere in portions of Hispaniola, the Bahamas, and Cuba during the next several days, although the forecast is more uncertain than usual since the system is still in its formative stage. Interests in these areas should monitor the system's progress and updates to the forecast.

4. There is a risk of wind and rainfall impacts in portions of Florida beginning Friday through the weekend. However, given the uncertainty in the long-range forecast it is too soon to determine the timing, location, and magnitude of any potential impacts. Interests in Florida should monitor updates to the forecast.



For more information go to hurricanes.gov



Current & Forecast River Flooding North Florida – Southeast River Forecast Center

Extensive river flooding will continue across Northeast Florida this week.

More details on river levels available at the <u>Southeast River Forecast Center website</u>.





Long-Range Flood Outlook

Next 7 Days – Ending Monday, August 16

Heavy rainfall will be possible across the state this weekend, and continue across North Florida into early next week.

FDEM

Rivers across Northeast Florida are saturated and this region will be the most susceptible to additional flooding this weekend.

It is too early to determine exact rainfall totals.



Made: 08/10/2021 3PM EDT

www.wpc.ncep.noaa.gov

Rainfall Totals Next 7 Days

Ending 8 PM ET Tuesday

FDEN



Heavy rainfall will be possible across the Peninsula starting on Friday and continuing into the weekend.

The heavy rain threat may then move into North Florida early next week.

*Exact rainfall totals WILL CHANGE as the forecast track and intensity is fine tuned. These are first guess totals based on the current NHC forecast. *



Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days (LINK) – Invest 95L

Five-Day Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida





Post-Tropical Cyclone or Remnants

A concentrated area of showers and thunderstorms located a few hundred miles southwest of the Cabo Verde Islands is associated with a tropical wave. Some gradual development of this system is possible over the next several days while it moves westward across the tropical Atlantic at 15 to 20 mph.

*Formation chance through 48 hours...low...10% *Formation chance through 5 days...low...20%



Overall Summary

Potential Tropical Cyclone Six (Formerly Invest 94L)

- Potential Tropical Cyclone Six is located about 100 miles south of Puerto Rico, or about 1,100 miles southeast of Miami, Florida.
- Six currently has maximum sustained winds around 35 mph, and some strengthening is forecast over the next 24 hours before the system interacts with land. Development into Tropical Storm Fred is still expected today or tonight.
- Six will move over the mountainous terrain of Puerto Rico, Hispaniola, and/or Cuba. This makes the longer range intensity forecast uncertain, but significant strengthening is not forecast by NHC at this time.
- Six is moving west-northwest at 17 mph, and this general motion will continue over the next few days. This weekend, a northward turn is anticipated.
- The track has shifted slightly to the west, with greater confidence the system tracks into the eastern Gulf of Mexico and re-strengthens.

Invest 95L

- A concentrated area of showers and thunderstorms located a few hundred miles southwest of the Cabo Verde Islands is associated with a tropical wave. Some
 gradual development of this system is possible over the next several days.
- NHC has the odds of development 10% over the next 48 hours and 20% over the next 5 days.

Florida Outlook:

- PTC #6 should be monitored, as it will bring increased rain chances to South Florida starting on Friday and other regions of the state this weekend and into early
 next week.
- The entire state is in the 5-day forecast cone for where the center of the storm is most likely to travel.
- It is too early to determine any other impacts to the state!!
- Some wind and surge impacts are possible, particularly if the system remains north of the islands and gets into the Gulf of Mexico.
- Widespread minor to moderate river flooding will continue this week in Northeast Florida. Heavy rainfall may continue or worsen flooding.

Another briefing packet will be issued tomorrow morning with the 8am advisory. For the latest information on the tropics, please visit the National Hurricane Center website at <u>www.hurricanes.gov</u>.



TROPICAL UPDATE



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