

TROPICAL UPDATE



11:00 AM EDT Tuesday, July 28, 2020

Potential Tropical Cyclone Nine

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.



Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days (LINK)

FDE





GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 14:05Z Jul 28, 2020



The system continues to have a large, broad circulation- several hundred miles across. However, it has started to consolidate on the southwest side and a low pressure area appears to be forming there.





Steering Currents

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, strong area of high pressure is centered over the Atlantic. This will push the tropical system (PTC #9) westnorthwest toward the Greater Antilles and eventually Florida.



Official Forecast Track

From the National Hurricane Center – PTC #9



- The center of Potential Tropical Cyclone Nine is estimated to be about 585 miles east of the Leeward Islands.
- Maximum sustained winds are around40 mph.
- Potential Tropical Cyclone Nine is moving to the west at 23 mph, and a west-northwest movement is expected over the next few days
- The system will near Puerto Rico in about 48 hours and Florida in 5 days.



Time of Arrival & Wind Speed Probabilities

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



Key West: 15% Miami: 19% West Palm Beach: 29% Ft. Pierce: 26% Daytona Beach: 10% Jacksonville: 7%

The most likely chance of tropical storm force winds starting will be Saturday Night and Sunday in Southeast Florida, but could arrive AS EARLY AS Friday night.



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.

Wind shear directly over the system is low, but not zero. Wind shear may increase as the system moves west, which may make the environment unfavorable for significant intensification.



Dry Air & Saharan Dust

Is the environment favorable for the system?

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



GOES-16: SAHARAN AIR LAYER TRACKING PRODUCT 12:00 UTC 28 JULY 2020 UW-CIMSS/NOAA-H

Sea Surface Temperatures & Anomalies

Is the ocean favorable for the system?

Water temperatures are supportive for tropical development across the entire Atlantic basin, and will continue to warm as PTC #9 moves west. Water temperatures are above normal across much of the Atlantic.







Model Forecast Intensity

Dynamical and Statistical Models – PTC #9

Until a more defined center forms, these models tracks are prone to more significant errors than usual

Invest 92L Model Intensity Guidance



Gradual organization is forecast by most models as the system moves to the northwest.

Land interaction with Hispaniola would weaken the system.



Overall Summary

Potential Tropical Cyclone Nine (Formerly Invest 92L)

- The tropical wave near the eastern Caribbean is starting to become better organized. At 11 AM ET Tuesday, due to the close
 proximity of impacts to the Lesser Antilles and Puerto Rico, the National Hurricane Center began advisories on Potential
 Tropical Cyclone Nine.
- The system will continue to move west and west-northwest over the northeastern Caribbean through the next couple of days, arriving in Puerto Rico Thursday, the Bahamas on Friday, and South Florida on Sunday.
- Environmental conditions are forecast to become more conducive for development, and gradual organization is forecast. The system is already producing tropical storm force winds, and only a slight increase in organization would result in a tropical storm form forming (90% chance).
- The track near the mountainous islands of the Great Antilles and the potential for unfavorable wind shear this weekend makes the intensity forecast uncertain at the moment.
- The next name on the list is Isaias (ees-ah-EE-ahs).

Florida Outlook:

• PTC #9 poses a direct threat to Florida starting on Sunday. It is too early to determine exact impacts, but heavy rainfall and gusty winds are becoming increasing likely in the Florida Peninsula.

The next briefing packet will be issued Tuesday afternoon. For the latest information on the tropics, please visit the National Hurricane Center website at <u>www.hurricanes.gov</u>. Daily Weather Packets are published each day in WebEOC Info Message #3518.



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