

Monroe County Florida Keys Weather Briefing

Potential Tropical Impacts from Developing Low Pressure in Northwest Caribbean

Issued: September 23, 2024 – 8:15 am EDT

This weather briefing is for emergency management and critical infrastructure core partners serving the Florida Keys of Monroe County.

Bottom Line:

A tropical depression or tropical storm is likely to form during the next day or two while moving northward from the northwestern Caribbean Sea into the southeastern Gulf of Mexico, where additional development is expected.

Until a well-defined center of circulation forms, it is too early to discuss the specific level of potential impacts in Florida Keys. However, depending on the eventual forecast track, size and intensity of this weather system, several impacts from wind, including strong to possibly damaging wind gusts in thundery squalls, coastal saltwater flooding and rainfall flooding. These impacts are most likely to occur over the late Tuesday night through Friday morning time frame, with the greatest potential for impacts late Wednesday through Thursday.

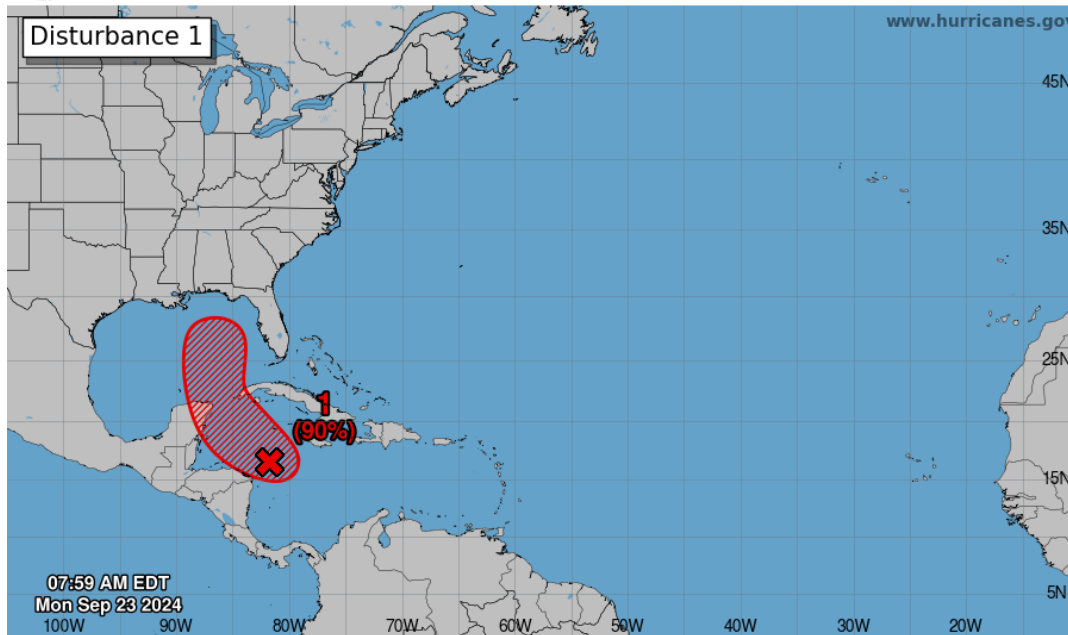
Situation Overview:

Showers and thunderstorms are gradually becoming better organized in association with a broad area of low pressure over the northwestern Caribbean Sea. Environmental conditions appear favorable for development, with a high chance (70%) for tropical cyclone formation over the next 48 hours (through Tuesday night). A tropical depression or storm is likely to form over the next day or two as this weather system moves northward into the southeastern Gulf of Mexico. Potential Tropical Cyclone advisories may be issued as early as late this morning. Later this week, the system is forecast to move generally northward across the eastern Gulf of Mexico, and interests in the northern and northeastern Gulf Coast should closely monitor the progress of this system.



Seven-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Seven-Day Cyclone Formation Chance: ✖ < 40% ✖ 40-60% ✖ > 60%
Tropical or Sub-Tropical Cyclone: ○ Depression ● Storm ● Hurricane
⊗ Post-Tropical Cyclone or Remnants

Until a tropical cyclone forms with a well-defined center of circulation, it will be too early considering the high uncertainty in forecasting exact potential impacts. However, even with tropical cyclones that may pass into the southeast Gulf of Mexico to the west of the Florida Keys, potential impacts to portions of the Florida Keys may include:

- Windy to very windy conditions, with southeast to south winds sustained up to 25 mph, especially Wednesday night through Thursday
- Frequent thundery squalls with the potential for brief wind gusts 50 to 60 mph
- Locally heavy rainfall producing street flooding, especially around the times of high tides
- Possible coastal saltwater flooding and oceanside wave overwash

At this time, the potential time window for the highest rain chances, gusty winds from thundery squalls, locally flooding rainfall and oceanside saltwater flooding and coastal oceanside wave overwash would be late Tuesday night through Friday morning.

The Weather Prediction Center has outlooked the Florida Keys of Monroe County for a **marginal risk** of flooding rainfall Wednesday and Wednesday night; a higher, **slight risk** category for Thursday and Thursday night; and a lingering **marginal risk** for flooding rainfall for Friday and Friday night.

Next Update

The next update to the weather brief is expected early Monday afternoon.

You may contact the NWS Key West at (305) 295-1316 extension 3 to speak with a meteorologist 24/7. Please contact us anytime if you need specific information (as best as the science allows) for critical hazardous weather information for decision support in your department's activities.

For additional information,

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