**Tropical cyclone:**

**What is a tropical cyclone?**

Tropical cyclone is a rapidly rotating [storm system](https://en.wikipedia.org/wiki/Storm) characterized by a [low-pressure](https://en.wikipedia.org/wiki/Low-pressure_area) center, a closed low-level atmospheric circulation, [strong winds](https://en.wikipedia.org/wiki/Beaufort_scale), and a spiral arrangement of [thunderstorms](https://en.wikipedia.org/wiki/Thunderstorm) that produce heavy rain. Depending on its location and strength, a tropical cyclone is referred to by different names, including [hurricane](https://en.wikipedia.org/wiki/Tropical_cyclone#Hurricane_or_typhoon), [typhoon](https://en.wikipedia.org/wiki/Tropical_cyclone#Hurricane_or_typhoon), [tropical storm](https://en.wikipedia.org/wiki/Tropical_cyclone#Tropical_storm), cyclonic storm, [tropical depression](https://en.wikipedia.org/wiki/Tropical_cyclone#Tropical_depression), and simply cyclone. A [hurricane](https://en.wikipedia.org/wiki/Atlantic_hurricane) is a tropical cyclone that occurs in the [Atlantic Ocean](https://en.wikipedia.org/wiki/Atlantic_Ocean) and northeastern [Pacific Ocean](https://en.wikipedia.org/wiki/Pacific_Ocean), and a [typhoon](https://en.wikipedia.org/wiki/Typhoon) occurs in the northwestern Pacific Ocean; while in the south Pacific or [Indian Ocean](https://en.wikipedia.org/wiki/Indian_Ocean), comparable storms are referred to simply as "tropical cyclones" or "severe cyclonic storms. "Tropical" refers to the geographical origin of these systems, which form almost exclusively over [tropical](https://en.wikipedia.org/wiki/Tropics) seas. "Cyclone" refers to their winds moving in a circle, whirling round their central clear [eye](https://en.wikipedia.org/wiki/Eye_(cyclone)), with their winds blowing [counterclockwise](https://en.wikipedia.org/wiki/Clockwise_and_counterclockwise) in the [Northern Hemisphere](https://en.wikipedia.org/wiki/Northern_Hemisphere) and clockwise in the [Southern Hemisphere](https://en.wikipedia.org/wiki/Southern_Hemisphere). The opposite direction of circulation is due to the [Coriolis effect](https://en.wikipedia.org/wiki/Coriolis_effect). Tropical cyclones [typically form](https://en.wikipedia.org/wiki/Tropical_cyclogenesis) over large bodies of relatively warm water. They derive their energy through the evaporation of [water](https://en.wikipedia.org/wiki/Water) from the [ocean](https://en.wikipedia.org/wiki/Ocean) surface, which ultimately [recompenses](https://en.wikipedia.org/wiki/Condensation) into [clouds](https://en.wikipedia.org/wiki/Cloud) and rain when moist air rises and cools to [saturation](https://en.wikipedia.org/wiki/Saturated_fluid). This [energy source](https://en.wikipedia.org/wiki/Energy_source) differs from that of [mid-latitude cyclonic storms](https://en.wikipedia.org/wiki/Extratropical_cyclone), such as [nor'easters](https://en.wikipedia.org/wiki/Nor%27easter) and [European windstorms](https://en.wikipedia.org/wiki/European_windstorm), which are fueled primarily by [horizontal temperature contrasts](https://en.wikipedia.org/wiki/Baroclinic_instability). Tropical cyclones are typically between 100 and 2,000 km (62 and 1,243 mi) in diameter.

**How to survive from tropical cyclone?**

* **Before the Storm:**

1. Create a hurricane survival kit

* Crank radio
* Walkie-Talkie
* Light sources
* First Aid kit
* Rations
* Water filtration system
* Paracord
* Flotation device
* Chem lights

1. Turn off utilities

* **During the Storm:**

1. Protect yourself from high winds and flooding:

* Evacuate when told to: If authorities have advised you to evacuate in your area, LISTEN TO THEM. Grab your emergency kit and load up your loved ones. If you’re unable to leave the storm area, take refuge in a designated storm shelter.
* Head to your home’s interior: If you haven’t been told to evacuate, or you don’t have time to leave before the storm hits, head to the most interior room of your home to safeguard against high winds.

1. Safe places during a hurricane:

When winds whip up and rain starts assaulting your city, it’s important that you’re somewhere safe. The following locations provide the optimal level of protection during a hurricane:

* If trapped in a building by flooding, go to the highest level of the building.
* Take refuge in a small interior room, closet, or hallway on the lowest level.
* Lie on the floor under sturdy object such as a table.
* Stay away from windows and glass doors.

1. Don’t use electrical appliances.
2. Don’t take a bath or shower during the storm.