

Hurricanes

Hi I'm going to talk about hurricanes. According to Google.com, a hurricane is "a storm with a violent wind, in particular a tropical cyclone in the Caribbean." Here is a few interesting facts about hurricanes: a typical hurricane can dump 6 inches of rain across a region, the most violent winds and heaviest rains take place in the eye wall, the ring of clouds and thunderstorms closely surrounding the eye wall, every second a large hurricane releases the energy of 10 atomic bombs and hurricanes can also produce tornadoes. The purpose of this research project is to teach you how a hurricane forms, how destructive they can be and, how to stay safe during a hurricane.

According to OceanService.noaa.gov, hurricanes form by "warm ocean waters and thunderstorms fuel power-hungry hurricanes. Hurricanes form over the ocean, often beginning as a tropical wave—a low pressure area that moves through the moisture-rich tropics, possibly enhancing shower and thunderstorm activity." Warm waters at least 26.5 degrees celsius over a depth of 50 meters powers storms. When the water vapor from the warm ocean condenses to form clouds. The warm air is pulled into columns of clouds. If they occur in the Atlantic ocean, Caribbean, Gulf of Mexico, and eastern Pacific ocean they're known as typhoons. In the Southern Pacific and Indian oceans, they're called cyclones. For one to form, there needs to be warm ocean water and moist humid air in the region. When the humid air is flowing upward at a zone of low pressure over

warm water, the water is released from the air, creating the clouds of the storm.

As it rises, the air in a hurricane rotates.

Let's discuss how much damage a hurricane can cause. Hurricanes are one of nature's most powerful storms; they produce strong winds, storm surge flooding, and heavy rainfall that can lead to inland flooding. According to ReadyNH.gov, "hurricanes can cause catastrophic damage to coastlines and several hundred miles inland. They can produce winds exceeding 155 miles per hour as well as tornadoes and microburst moving or airborne debris can break windows and doors and allow high winds and rain inside a home or business." Some of the things that hurricanes can destroy include: roofs, interiors, equipment, and public utilities.

According to the CDC. gov, there are 5 ways to prepare for a hurricane:

1. Keep your emergency supply kit in a place you can easily access
2. Listen to the radio or TV for updates on the hurricane
3. Stay inside. Even if it looks calm, do not go outside
4. Stay away from windows - you could get hurt by pieces of broken glass or flying debris during a storm
5. Be ready to leave

If you did need to leave, you may have to pack a go-bag. According to silverbergbrito.com

You will need to have:

1. Water – one gallon of water per person per day (for at least three days) – at least a three-day supply of non-perishable food with a can opener if you are including canned food
2. Battery-powered or hand-crank radio and a NOAA Weather Radio with tone alert (and extra batteries)
3. Flashlight and extra batteries
4. Basic first aid kit and supplies
5. Whistle to signal for help
6. Dust mask to filter contaminated air
7. Plastic sheeting and duct tape for sheltering in place
8. Moist towelettes, garbage bags, and plastic ties
9. Flood and Homeowner's Insurance Policies
10. Pictures of the Property before the Hurricane
11. Cell phone with chargers and a battery backup

How long can hurricanes last?

A hurricane can last for 2 weeks or more over open water and can run a path across the entire length of the Eastern seaboard. The 74 to 160 miles per hour winds of a hurricane can extend inland for hundreds of miles. Hurricanes can spawn tornadoes, which add to the destructiveness of the storm.

In conclusion, a hurricane is a weather phenomenon that always has had a tremendous impact on humanity. Hurricanes can certainly be dangerous for humanity as they can bring widespread destruction to humanity. That is why it is crucial to know the ways to stay safe during a hurricane such as staying inside and away from windows. You can also be prepared by having a to-go bag ready just in case things escalate. If you want to learn more about hurricanes, visit [History.com](https://www.history.com) or [National Geographic Kids](https://www.nationalgeographic.com/kids).