

Name: _____

Storm Summary

Complete the following chart for your storm:

Storm Name	Year	Fatalities	Cost

Questions to Think About

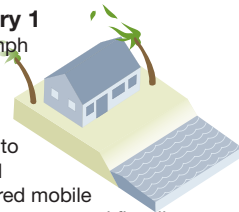
1. Did your hurricane travel in a straight line?
2. Did your hurricane hit land? If so, where did it hit? What happened to the storm after it hit land?
3. What are some things you can do to prepare for a hurricane?

Saffir-Simpson Hurricane Scale

The Saffir-Simpson Hurricane Scale is a rating used to give an estimate of the potential property damage and flooding expected along a coast from a hurricane landfall.

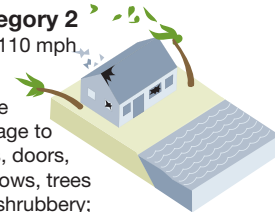
Category 1 74 - 95 mph

Damage primarily to trees and unanchored mobile homes; some coastal flooding



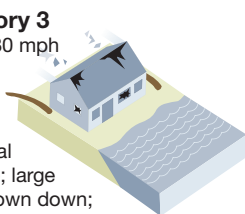
Category 2 96 - 110 mph

Some damage to roofs, doors, windows, trees and shrubbery; flooding damage to piers



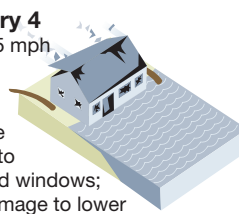
Category 3 111 - 130 mph

Some structural damage; large trees blown down; flooding near shoreline and possibly inland; mobile homes destroyed



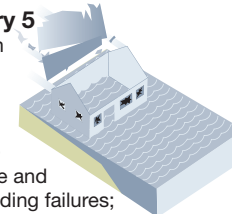
Category 4 131 - 155 mph

Extensive damage to doors and windows; major damage to lower floors near shore; terrain may be flooded well inland



Category 5 More than 155 mph

Complete roof failure and some building failures; massive evacuation; flooding causes major damage to lower floors of all shoreline buildings



Source: Associated Press

Hurricanes

WHAT ARE HURRICANES AND HOW ARE THEY TRACKED?

Research

Answer the following True or False questions about hurricanes:

- True/False** A spot on the earth is located using longitude and latitude.
- True/False** Lines of longitude run from pole to pole.
- True/False** The zero degree latitude line is also known as the Prime Meridian.
- True/False** Hurricanes are large storms that can be as large as 600 miles across.
- True/False** Hurricanes are powered from warm ocean water.
- True/False** Hurricanes always hit land.
- True/False** Hurricanes have winds of at least 74 miles per hour.
- True/False** The Saffir-Simpson scale is used to classify how strong a hurricane is.
- True/False** The strongest winds in a hurricane are found in the eye.
- True/False** Only buildings along the coast are damaged in hurricanes.
- True/False** Most hurricane fatalities are due to drowning.
- True/False** If a hurricane is approaching, you should place as many toys and other small items in your yard as possible.
- True/False** Stocking up on water, canned foods and batteries will help you prepare for a hurricane.
- True/False** It is easy to predict where a hurricane is going to go.

Identification of Terms

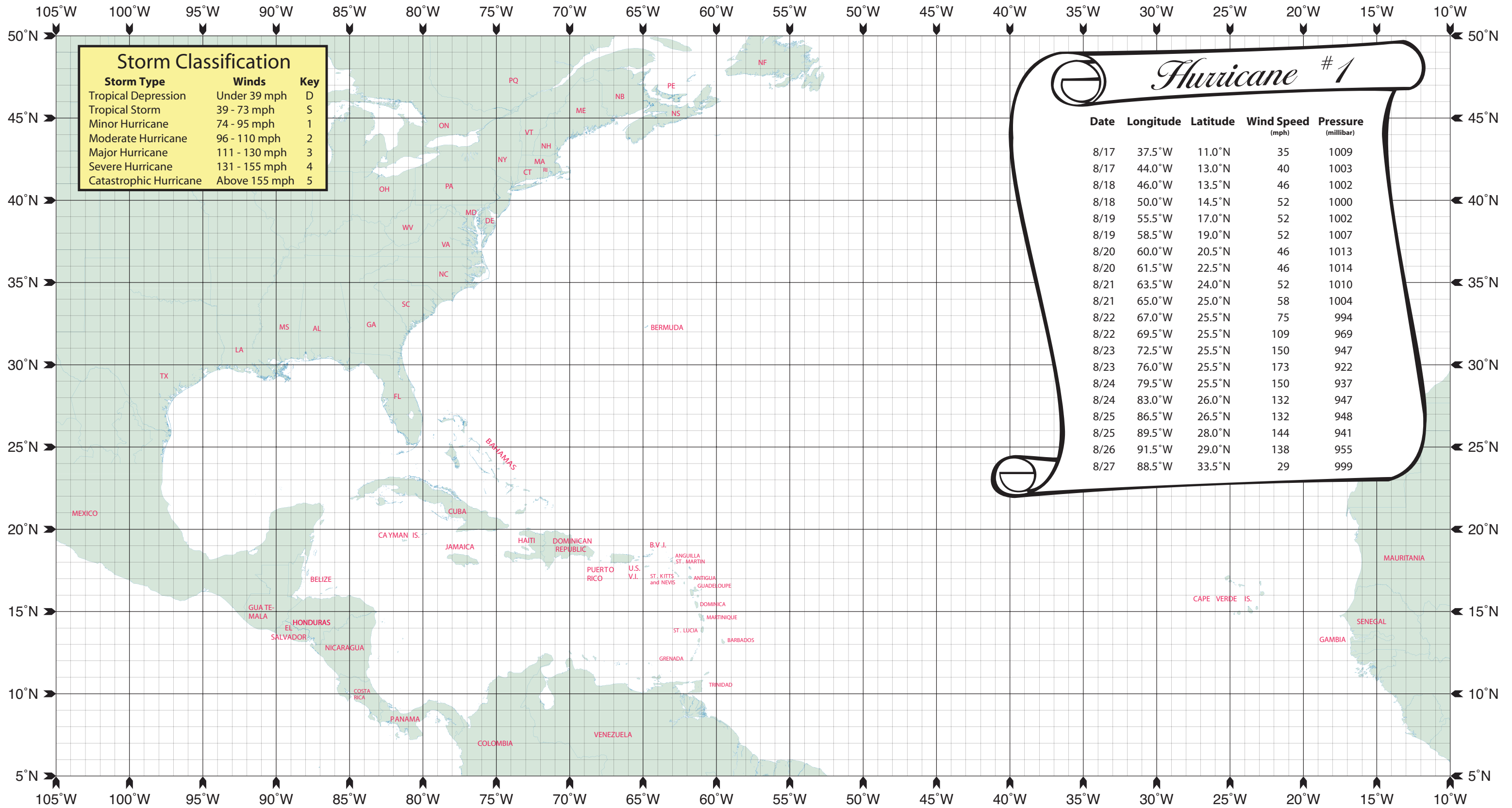
When you track a hurricane on a map, you will need to know:

- Longitude** Tells you how many degrees east or west of the Prime Meridian a storm is.
- Latitude** Tells you how many degrees north or south of the equator a storm is.
- Wind Speed** Used to measure the strength of a storm. Use the wind speed to determine the storm's ranking on the Saffir-Simpson scale.
- Pressure** Tells you the barometric pressure at the center of a storm. Hurricanes are low pressure weather systems. The lower the barometric pressure, the more intense the storm.



Atlantic Basin Hurricane Tracking Chart

National Hurricane Center, Miami, Florida



Storm Classification		
Storm Type	Winds	Key
Tropical Depression	Under 39 mph	D
Tropical Storm	39 - 73 mph	S
Minor Hurricane	74 - 95 mph	1
Moderate Hurricane	96 - 110 mph	2
Major Hurricane	111 - 130 mph	3
Severe Hurricane	131 - 155 mph	4
Catastrophic Hurricane	Above 155 mph	5

Hurricane #1

Date	Longitude	Latitude	Wind Speed (mph)	Pressure (millibar)
8/17	37.5°W	11.0°N	35	1009
8/17	44.0°W	13.0°N	40	1003
8/18	46.0°W	13.5°N	46	1002
8/18	50.0°W	14.5°N	52	1000
8/19	55.5°W	17.0°N	52	1002
8/19	58.5°W	19.0°N	52	1007
8/20	60.0°W	20.5°N	46	1013
8/20	61.5°W	22.5°N	46	1014
8/21	63.5°W	24.0°N	52	1010
8/21	65.0°W	25.0°N	58	1004
8/22	67.0°W	25.5°N	75	994
8/22	69.5°W	25.5°N	109	969
8/23	72.5°W	25.5°N	150	947
8/23	76.0°W	25.5°N	173	922
8/24	79.5°W	25.5°N	150	937
8/24	83.0°W	26.0°N	132	947
8/25	86.5°W	26.5°N	132	948
8/25	89.5°W	28.0°N	144	941
8/26	91.5°W	29.0°N	138	955
8/27	88.5°W	33.5°N	29	999