

## What makes a hurricane different from a tornado

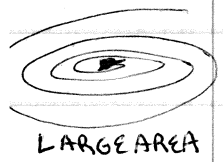
Hurricanes: Generally over 400 miles wide!

Tornadoes: Smaller ~ maybe the size of a car.

Storm Surge - Hurricanes winds cause ocean level to rise and flood coastal areas.

- Tornadoes - inland, flooding due to Rain

hurricane



100mph

tornado



250mph

Winds - Tornadoes have much faster / stronger winds ~ 250mph

- Hurricanes have slightly slower winds, but covers a much larger area

Water / Storm surge can be more damaging than the wind in a hurricane.

Categories: Measured by Saffir-Simpson Index

Tropical Storm - Winds 39-74mph

Hurricane - Winds > 74mph

## SAFETY

- Tape up windows + stay away during the storm
- Have food + water supplies
- Batteries, Flashlights, Battery - Radio
- First Aid kits
- Stay away from winds in low part of house

Aim: How is a hurricane different from a tornado?

Where do they form?

- Near the equator
  - Warm ocean water evaporating (energy)
  - Warm, wet air Rises, condenses + releases heat energy.
- \* Low Pressure System \*

Formation in the Atlantic Ocean ESRT p.4 Ocean Currents

Form off West Coast of Africa as a Tropical Disturbance.

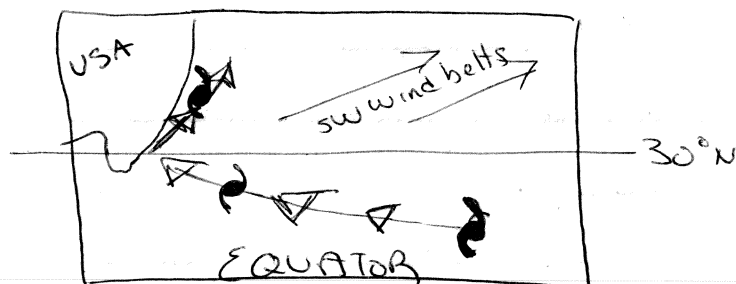
Moves Eastward, gaining energy → Tropical Depression.

Keeps gaining in energy + size → Tropical Storm.

Approaches Caribbean Islands or turns to move up the East Coast of US → Hurricane Forms if enough energy.

How do they travel?

- Follow typical storm track of winds + ocean currents
- When it approaches our wind belt  $30^{\circ}\text{N}$ - $60^{\circ}\text{N}$  it changes direction and moves North East along the coast.
- When it hits Land, goes inland away from water or reaches Cold temperatures it loses energy + Dies!



ESRT p.14