What makes a hurricane different from a tornado

Hurricanes: Generally over 400 miles wide!
Tornadoes: Smaller ~ maybe the size of a car.

hurricane

LARGE AREA

Storm Surge - Hurricanes winds cause ocean level to rise and flood coastal areas.
- Tornadoes - inland, flooding due to Rain

tornado

SMALL AREA

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 the Travel?

- Follow typical storm track of winds & ocean currents
- When it approaches our wind belt 30°N-60°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!

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