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

Winds - Tornadoes have much faster/stronger winds ~ 250 mph
- 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 39-74 mph
- Hurricane - Winds > 74 mph

SAFETY
- Tape up windows and stay away during the storm
- Have food and 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°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!

Diagram:
- USA
- Mom wind belts
- 30°N
- Equator