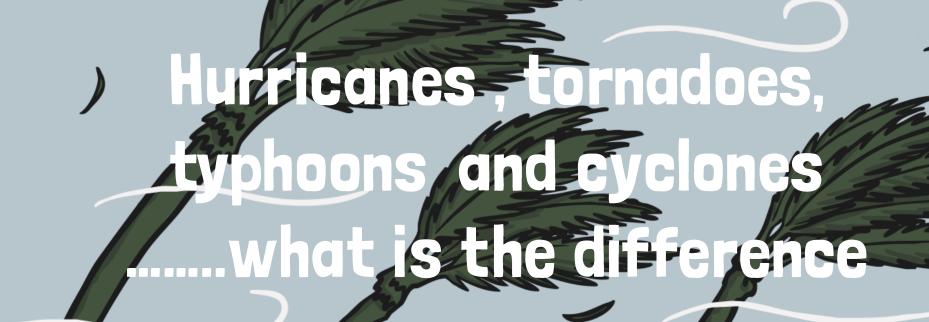
Natural Disasters All about wind!



Not a lot - they are all wind!



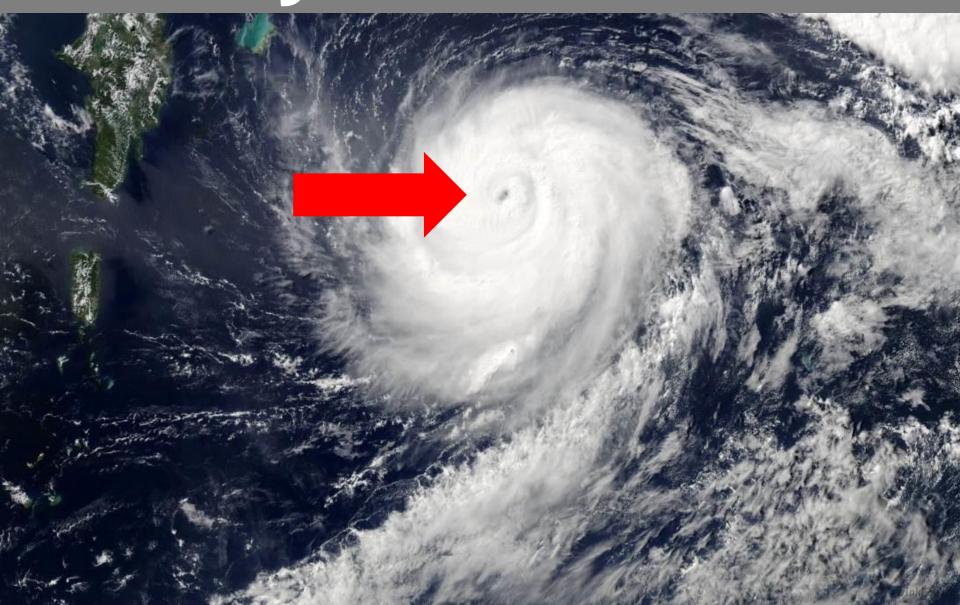
Lets begin with Hurricane?

- A hurricane is a huge, rapidly rotating storm.
- When winds reach 74 miles per hour, a hurricane is officially born.
- Hurricanes can be up to 600 miles across and have strong winds of up to 200 mph.
- Each hurricane usually lasts for over a week, moving 10-20 miles per hour over the ocean.
- Hurricanes form close to the equator.
- Hurricanes rotate around the centre of the storm or "eye"; this is the calmest part

Different names are given to hurricanes depending on where they form

- 1. Atlantic—we call them <u>hurricanes</u>
- 2. Pacific—they are called typhoons
- 3. Indian Ocean—they are called cyclones

The 'eye' of the Hurricane



What causes a Hurricane?

- Hurricanes form over really warm, ocean water.
- Hurricanes gather heat and energy through contact with warm ocean waters.
- The wind must be blowing in the same direction and at the same speed to force the cool air upward from the ocean.
- As a hurricane's winds spiral around the storm, they push water into the storm's centre. When the storm reaches land, this water causes flooding.
- Rising air and water temperatures worldwide are creating more frequent and severe hurricanes.

The Saffir-Simpson Hurricane Wind Scale

Category	Wind Speed	Damage
1	74-95 mph	Minimal
2	96-110 mph	Moderate
3 (Major)	111-129 mph	Extensive
4 (Major)	130-156 mph	Extreme
5 (Major)	157 mph or higher	Catastrophic

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Hurricane Around the World



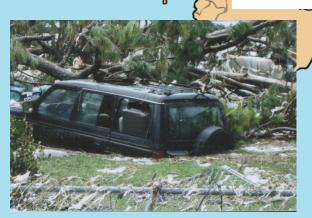
The names given to hurricanes can be reused after six years have passed. However, if a hurricane has been especially severe, then its name is permanently retired, and never used again.

Hurricane Around the World



Hurricane Katrina, New Orleans, 2005

- Hurricane Katrina lasted for eight days, with winds of 175 mph.
- The costliest natural disaster in the history of the USA, Katrina caused 1,833 deaths and damages worth \$108 billion.
- 1 million people were made homeless and about 1,200 people drowned in the floods.
- Oil facilities were damaged and as a result, petrol prices rose in the UK and USA.





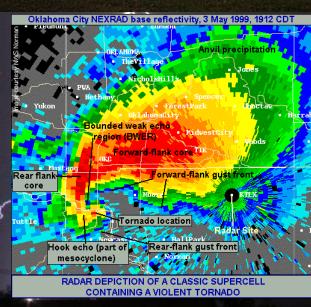


Tonadoes ... Grab Toto!!

TORNADOES

- •Are a <u>low pressure storm</u> that usually forms over <u>land</u>
- •in an average year, <u>800</u> tornadoes are reported in the U.S.
- a tornado is defined as a violently rotating column of air extending from a <u>thunderstorm</u> to the ground... the rotating column of air is called the <u>vortex</u>

•the vortex is only visible when <u>debris</u> and <u>dirt</u> gets carried up with the winds



THE HOOK

Where do they come from?

Tornadoes come from the energy released in a thunderstorm.

What makes them dangerous (as compared to hurricanes) is that their energy is concentrated in a small area, only a hundred yards across



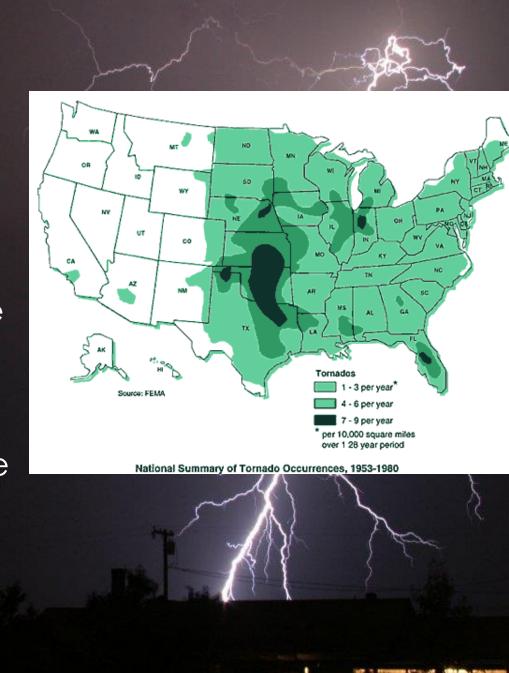
When & Where do they occur?

Most common <u>east</u> of the Rocky Mountains and <u>west</u> of the Appalachian Mountains.

They occur mostly during the spring and summer (April-June)

They usually occur during the <u>late</u> afternoon and <u>early</u> evening.

Usually happen along <u>cold</u> <u>fronts</u>

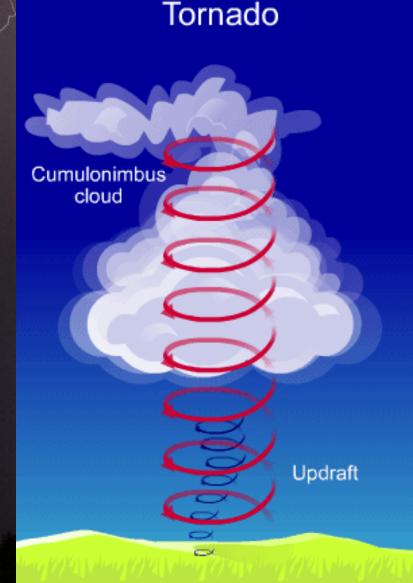


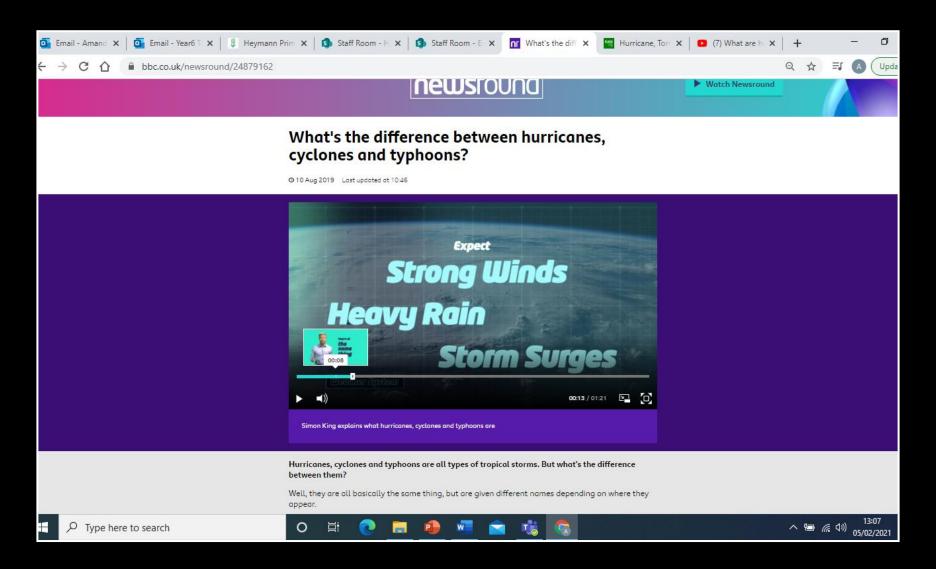
How long is a tornado usually on the ground?

Can range from a few seconds to several hours ... <u>5 minutes</u> is average

How fast do tornadoes move?

Movement can range from virtually stationary to more than 60 miles per hour ... Average is 10-20 miles per hour.

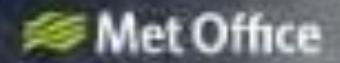




https://www.bbc.co.uk/newsround/24879162



https://www.youtube.com/watch?v=SSx_gisp2
4w



HURRICANES, TYPHOONS & CYCLONES

Your task

 Create an explanation booklet describing these different sorts of extreme wind (use the pictures provided to enhance your booklet)

 Remember its all about the wind !!

