

Observations

- ① Wind - temp. from hot to cold
 - Warm Front moves toward the Cold Front
(tornadoes happen where they meet)
 - * Thunderstorms happen
 - Barometric Pressure
 - Nice day = high pressure
 - high pressure to low pressure
 - Beach Wind
 - Sun heats water slower than rocks.
 - Hot sand pushes wind toward water.
 - After Sun set, warm water pushes wind inland (to beach)
- ② Airplanes - contrails - water vapor condenses to ice (freezing)
- ③ Dark Blue Sky @ Zenith - light blue @ horizon
 - more water on horizon
- ④ Temperature - Sunlight = more direct in Summer (high in sky)
Clouds block sunlight - After a storm we have clear skies.
- ⑤ Clouds - high wispy clouds = nice weather
- ⑥ Humidity - water in the air (sticky) (muggy)
 - frizzy hair
 - Dew Point - temp when rain can happen 62° Now
D.P. 57°

⑦ Lightning #2 killer in storms

- cloud to cloud = positive & negative particles in the air
- cloud to ground = from top to bottom and bottom to top

= also follows charges in the air

- Do Not be in the water
 - stand by a tree
- stand in wet sand
 - stand by flagpole
- stand by metal
 - stand by a window
- stand by electronics or by outlets
 - play sports
- Lightning Rod - metal pole on the top of a building with leading to the ground.
- In a car - stay if possible

⑧ Precipitation

- rain - snow - sleet - freezing rain - hail (green sky)
- mist - shower - drizzle - sprinkle

⑨ Thunder

- sonic boom after a lightning strike faster than the speed of sound
- Between Strike and Boom 5 second = 1 miles

⑩ Hurricane

Atlantic Ocean

Typhoon

Pacific Ocean

eye = calm

⑪ Tornado = Cyclone

circular motion = updrafts

wind shear makes it go vertical

- funnel cloud = not on ground
- wall cloud - see daylight under it
- Fujita Scale 0-5 EF1 = enhanced
- do not hide under an overpass fujita #1

Watch ≠ Warning
(chance) (go to shelter)

interior room - no windows

bathroom - pipes in the walls

hide in a ditch or low area

in a basement - cover with a

couch or mattress

hide under stairs

Wear Shoes

Be Prepared - Tornado Kit

- ① Food
- ② water
- ③ First aid kit
- ④ Flashlight
- ⑤ battery operated radio
- ⑥ Spare Shoes
- ⑦ 1 gal. water per person per day
- ⑧ 3-days supply of food
- ⑨ Batteries
- ⑩ whistle
- ⑪ Infant formula/food
- ⑫ Baby wipes
- ⑬ Trash bags
- ⑭ Dust Mask or old t-shirt
- ⑮ Plastic sheeting
- ⑯ Duct Tape
- ⑰ Tool Kit
- ⑱ Can Opener
- ⑲ Pet Supplies
- ⑳ Fire Extinguisher

⑫ NWS - National Weather Service
Broadcast Weather Alerts & Forecasts
Topeka, KS Pleasant Hill, MO
launch weather balloons

⑬ Meteorologist

Brian Bushy Gary Lesak Carly Ritters
Katie Horner

a) in front of camera

b) behind the camera

- researchers weather, make presentations
to train people to spot tornadoes

⑭ Flash Floods #1 Killer

- unexpected
- drown
- 3 inches can move a car
- washed out roads