

Storms

_____ : a violent disturbance in the atmosphere

I. Thunderstorms: heavy rainstorms accompanied by thunder and _____

A. How Thunderstorms Form

1. in cumulonimbus _____
2. when a _____ front forces warm air upward

B. Lightning and Thunder

1. 1st lightning: sudden spark/energy discharge
2. 2nd thunder: sound of rapidly heated air exploding

C. Thunderstorm Safety

1. do not touch _____ objects
2. outside -- crouch in a low area
3. in water -- _____

II. Tornadoes: rapidly swirling, funnel-shaped clouds that reach down from a storm cloud to touch Earth

A. How Tornadoes Form

1. in low, heavy cumulonimbus clouds
2. _____ and early _____
3. late afternoon, warm ground
4. _____, _____ air mass meets _____, _____ air mass

B. Where

1. Great Plains-- “_____”-- Texas, Oklahoma, Kansas, Nebraska
2. more often in the _____

C. Tornado Safety

1. Tornado _____
 - a. tornadoes are possible
 - b. watch for thunderstorms
2. Tornado _____
 - a. a tornado has been seen
 - b. move to a safe area
 - 1) _____ of a well-built building
 - 2) middle of ground floor
 - 3) away from windows and doors
 - 4) outdoors--lie in a ditch

III. Hurricanes: tropical storms with winds of 119 km per hour or higher

A. How Hurricanes Form

1. begin over _____ -- low-pressure area (tropical disturbance)-- tropical storm -- hurricane
2. August, September, October (in the U.S.)

B. The Eye

1. center of hurricane-lowest air pressure and warmest temperatures
2. calm winds and clear sky
3. around eye -- ring of clouds
4. inside storm -- bands of very high winds and heavy rains
5. winds spiral _____

C. How Hurricanes Move

1. last _____ than other storms -- a week or more
2. over land -- hurricane _____ down and _____ strength

D. Hurricane Damage

1. high waves, severe flooding, wind damage
2. _____ -- “dome” of water

E. Hurricane Safety

1. Hurricane _____
 - a. hurricane conditions are *possible* within 36 hours
 - b. be prepared to evacuate
2. Hurricane _____
 - a. hurricane condition are *expected* within 24 hours
 - b. evacuate --leave area immediately

IV. Winter Storms: snow falls when humid air cools below 0° C.

A. Where and How

1. _____
2. lake-effect snow
 - a. south and east of _____
 - b. _____ cools faster than _____
 - c. warmer, humid air over lakes -- over land -- rise and cools -- water vapor condenses -- snow

B. Snowstorm Safety

1. find shelter
2. cover your whole body
3. stay dry
4. in car -- make sure exhaust pipe is clear of snow