METEOROLOGY VOCABULARY

Troposphere ozone radiation

CFC

Stratosphere UV radiation insolation

Mesosphere aurora borealis temperature inversion

Thermosphere Northern lights isotherms

"pauses" "Ozone hole" specific heat

Ionosphere conduction latent heat

Green house effect

Greenhouse gases

convection

evaporation dew cumulus dew point condensation fog nimbus radiation

relative humidity frost alto

psychrometer advection cirrus

dry bulb cirrus condensation nuclei

wet bulb stratus base level (cloud)

^{**}Know what increasing altitude does to temperature for each of the atmospheric layers (ERST)

^{**}Know what increasing altitude does to pressure does for each of the layers

^{**}Understand how technology has affected both the Earth's global temperatures

^{**} Understand how technology has affect the Earth ozone layer

^{**} Be able to convert Celsius to Fahrenheit w/ ESRT table

^{**} Know how color and texture (shiny vs dull) affects absorption ability

^{**} be able to explain why water heats slowly vs soil

^{**} be able to give examples of conduction, convection and radiation

^{*}Know where energy is absorbed and given off when phase changing (particularly water)

^{**}Understand there are symbols to represent the amount of cloud cover (pg 511)

^{**}Be able to use the dew point and relative humidity charts in the ESRT.

- **Be able to read and use a psychrometer
- **Be able to identify what happens to relative humidity and dew point when temperatures rise or fall.
- ** Be able to identify major clouds

rain shadow	acid rain	sulfuric acid	carbonic acid
air pressure	millibar	inches of Hg	high pressure
low pressure	pressure gradient	wind	sea / land breeze
Coriolis Effect	global wind belts	wind vane	anemometer
Doldrums	horse latitudes	ITCZ - intertropical convergence zone	
Trade winds	prevailing westerlies	monsoons	jet stream
Air mass	maritime tropical (mT) continental tropical (cT)		
Maritime polar (mP)	continental polar (cP) rawinsonde		
Warm front	cold front	occluded front	stationary front
Cyclone	thunderstorm	lightening	tornado
Hurricane	storm surges	weather models	

^{**}Be able to explain acid rain and why New York has this issue

^{**}Be able to read a barometer, be able to transfer between millibars and inches of Hg

^{**}Be able to calculate pressure gradient

^{**}Be able to identify the direction of wind given pressure readings

^{**}Be able to identify air movement in low and high pressures systems

^{**}Be able to identify air movements in warm and cold fronts

^{**}Be able to identify low and high pressure systems on a global drawing

^{**} Be able to identify the global air motion at a particular latitude

^{**} Be able to draw isolines for temperature, pressure, precipitation

^{**} Be able to track a system over a USA map

^{**}Be able to roughly forecast the weather according to a weather map

^{**}Be able to draw air movement for land and sea breezes

^{**}Be able to identify safety behaviors for tornados and hurricanes

^{**}Be able to identify the current weather using weather map station symbols