

CLIMATE

Which type of climate do we have in Cary, NC?

How is that characterized?

List & explain the 6 factors that affect climate:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Climate is affected by both natural & human influences.

Examples of natural influences include:

Examples of human-caused influences include:

Explain the connection between burning of fossil fuels, the greenhouse effect, and global warming.

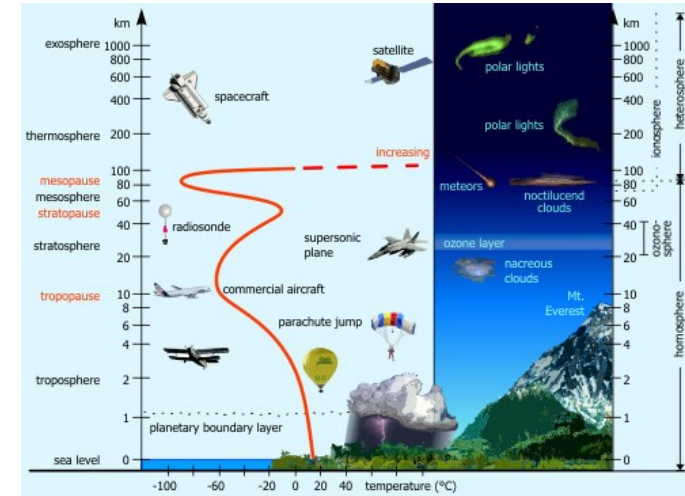
Words to Know

ALBEDO
 ATMOSPHERIC PRESSURE
 BAROMETER
 CLIMATE
 CONDUCTION
 CONVECTION CELL
 DOLDRUMS
 ELECTROMAGNETIC SPECTRUM
 EXOSPHERE
 GREENHOUSE EFFECT
 HORSE LATITUDES
 IONOSPHERE
 JET STREAMS
 MESOPAUSE
 MESOSPHERE
 MESOSPHERE
 OZONE
 POLAR EASTERLIES
 STANDARD ATMOSPHERIC PRESSURE
 STRATOPAUSE
 STRATOSPHERE
 TEMPERATURE INVERSION
 THERMOSPHERE
 TRADE WINDS
 TROPOPAUSE
 TROPOSPHERE
 WEATHER
 WESTERLIES
 CIRRUS CLOUD
 CLOUD SEEDING
 COALESCENCE
 CUMULUS CLOUD
 DEW
 DEW POINT

FROST
 HAIL
 HUMIDITY
 PSYCHROMETER
 RAIN GAUGE
 RELATIVE HUMIDITY
 SATURATED
 SLEET
 SPECIFIC HUMIDITY
 STRATUS CLOUD
 SUBLIMATION
 SUPERCOOLING
 AIR MASS
 ANEMOMETER
 COLD FRONT
 CONTINENTAL POLAR FRONT
 CONTINENTAL TROPICAL FRONT
 HURRICANE
 ISOBAR
 MARITIME POLAR
 MARITIME TROPICAL
 OCCLUDED FRONT
 POLAR FRONT
 RADAR
 SQUALL LINE
 STATIONARY FRONT
 THUNDERSTORM
 TORNADO
 TYPHOON
 WARM FRONT
 WATERSPOUT
 WAVE CYCLONE
 WIND VANE
 MIDDLE LATITUDE CLIMATE

METEOROLOGY

Weather? Climate? What's the difference?



What determines the boundaries between each layer?

What is the significance of the “-pauses”?

Explain the temperature trends as you pass through the layers.

How would describe the trends in pressure as you go higher?

What causes the seasons on Earth? (spring, summer, etc)



CLLOUDTYPES

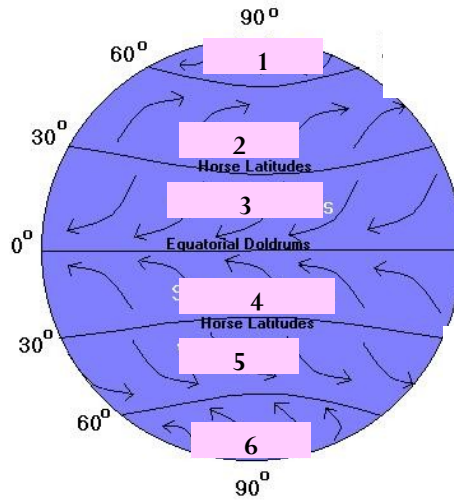
List, describe, and create a sketch of the three main cloud types:

- 1.
- 2.
- 3.

Instrument	Measures
Thermometer	
Barometer	
Psychrometer	
Wind Vane	
Anemometer	

Name & Explain the 3 Factors Affecting Wind:

- 1.
- 2.
- 3.



GLOBAL WINDS:

Which number(s) match the following winds?

Trade Winds:

Westerlies:

Polar Easterlies:

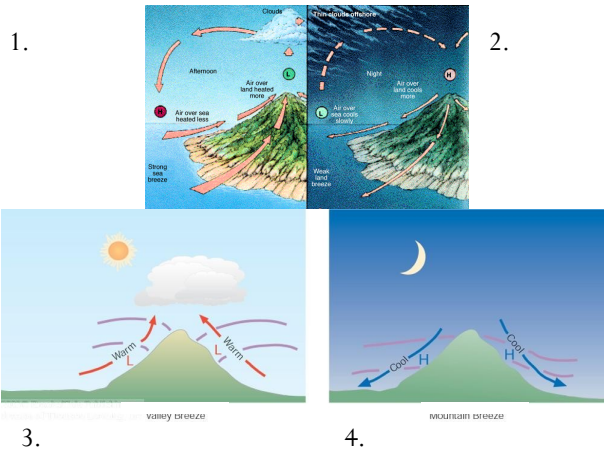
Explain the following:

Doldrums:

Horse Latitudes:

LOCAL WINDS

Name & Explain each of the following 4 breezes



3.

4.

What is the difference between El Niño & La Niña?

Name & describe the 4 types of air masses:

- 1.
- 2.
- 3.
- 4.

FOUR TYPES OF FRONTAL BOUNDARIES

NAME	DESCRIPTION	SYMBOL

SEVERE STORMS

Thunderstorms: (describe)

Tornadoes: (describe and discuss how classified)

Hurricanes: (describe and discuss how classified)