

# List #10 Meteorology Part 1

1. **Polar zones**- the areas near both poles from about 66.5° to 90° north and 66.5° to 90° South latitudes.
2. **Temperate zones**- the areas between the tropical and polar zones, from about 23.5° to 66.5° north and 23.5° and 66.5° south latitude.
3. **Tropical zone**- the area near the equator, between about 23.5° north latitude and 23.5° south latitude.
4. **Weather**- The condition of the Earth's atmosphere at a particular time and place.
5. **atmosphere**- the envelope of gases that surrounds the earth.
6. **air pressure**- the pressure caused by the weight of a column of air pushing down on an area.
7. **altitude**- elevation above sea level
8. **temperature**- a measure of how hot or cold an object is compared to a reference point.
9. **troposphere**- the lowest layer of the Earth's atmosphere
10. **radiation**- the direct transfer of energy through space by electromagnetic waves.
11. **convection** - the transfer of thermal energy by the movement of a fluid.
12. **conduction**- the direct transfer of thermal energy from one substance to another substance that it is touching.
13. **greenhouse effect** -the process by which heat is trapped in the atmosphere by water vapor, carbon dioxide, methane, and other gases that form a "blanket" around Earth; the trapping of heat by a planet's atmosphere.
14. **local wind**- winds that blow over short distances.
15. **sea breeze**- a flow of cooler air from over an ocean or lake toward land.
16. **land breeze**- the flow of air from land to a body of water.
17. **global wind**- winds that blow steadily from specific directions over long distances.
18. **jet stream**- bands of high- speed winds about 10 kilometers above the Earth's surface.