

Atmosphere energy and global temperatures
Earth-Atm
radiation balance

- Albedo
- Radiated

Radiation
by latitude

Daily radiation
patterns

- Insolation begins at sunrise
- Greatest insolation
- Greatest absorbed

Temp controls

- 1) Latitude
- Direct rays change with seasons
- 2) Altitude
- Mountains

- 3) Cloud cover
 - 50% of earth
 - Lower T during day
 - Increase nighttime T

- 4)land-water (continentality)
 - Rock

 - Water

- Evaporation(EV)

- transparency

- Specific heat

- movement

Global temp
patterns

- January
- Thermal equator

- July Temps
- Thermal equator

Temp ranges

- Continentality

Climograph