Atmospheric Moisture and Humidity

## Temperature measurement

Daily maximum and minimum are measured

## Other values calculated from these

- Daily temperature range
- Daily mean temperature
- Monthly mean temperature
- Annual mean temperature
- Annual temperature range




## Isotherm

- Line of equal temperature
- Divides map into areas
warmer than that temperature and
areas cooler than that temperature
- Maps with isotherms use constant difference from one isotherm to the next
- Often colored for ease of understanding


## Land-water relationship

- Water moderates the temperature
- Warmer winters and cooler summers near large bodies of water



## Cloudiness

- Daytime clouds shade surface, reflect energy away from area
- Nighttime clouds blanket area, reflect heat energy back toward Earth's surface



## Geographic position

- Western sides of ocean basins get equatorial heat from ocean currents - More moderate winter temperatures on east coasts of continents
- Eastern sides of ocean basins have cold polar currents
- Cooler year-round temperatures on west
coasts of continents



## Controls of Temperature

- Day length
- Sun angle
- Land-water relationship
- Geographic position relative to general circulation of the atmosphere and ocean
- Altitude
- Cloudiness




