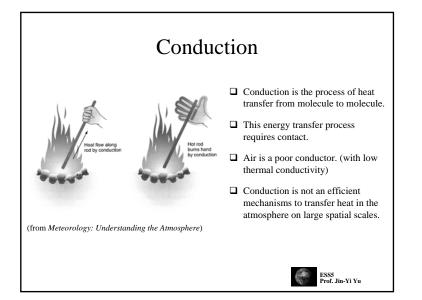


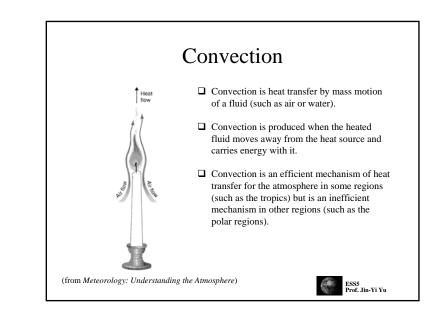
How to Change Air Temperature?

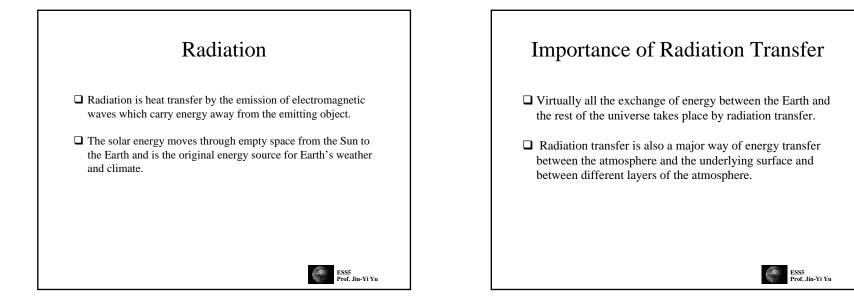
- □ Add (remove) heat to (from) the air parcel (diabatic processes)
 - (1) Conduction: requires touching
 - (2) Convection: Hot air rises
 - (3) Advection: horizontal movement of air
 - (4) Radiation: exchanging heat with space
 - (5) Latent heating: changing the phase of water

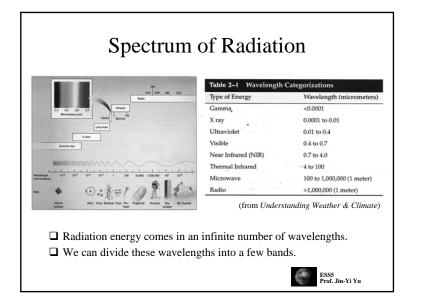


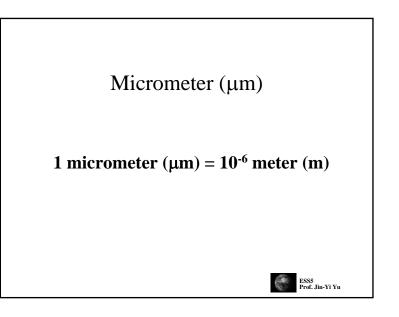
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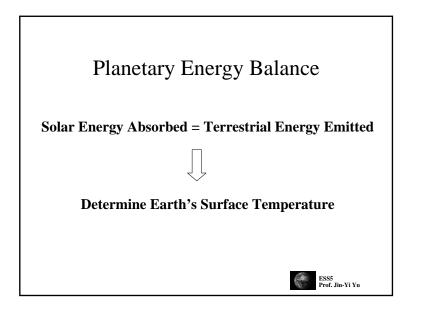


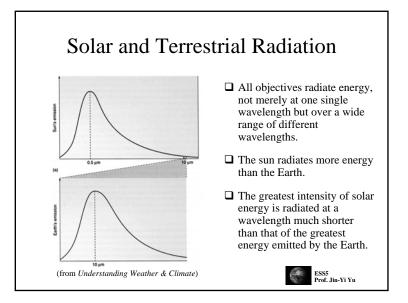


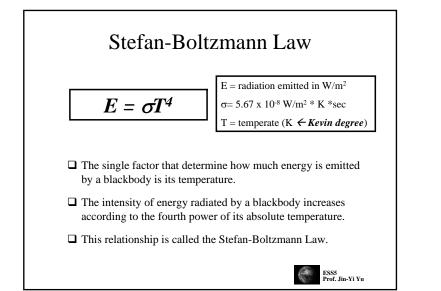


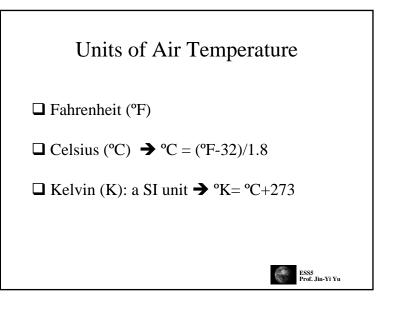


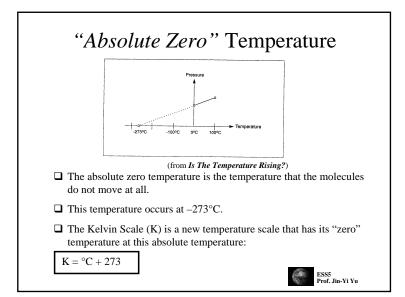


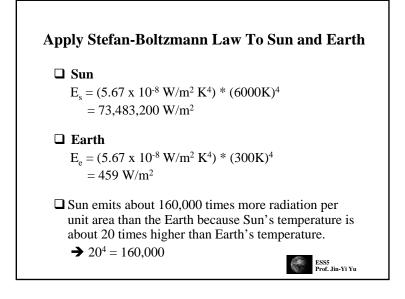


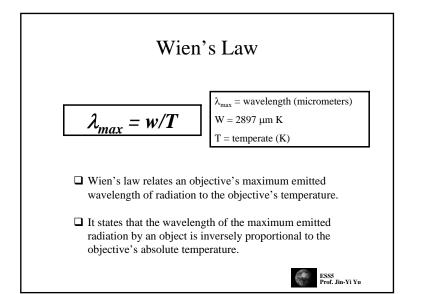


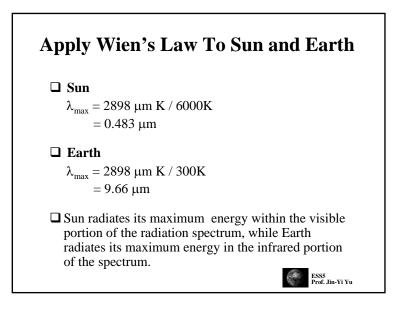


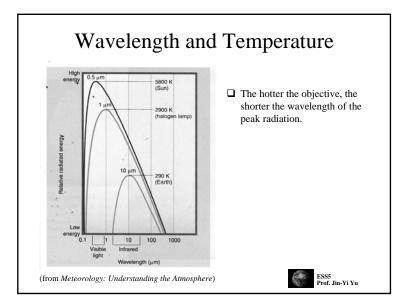


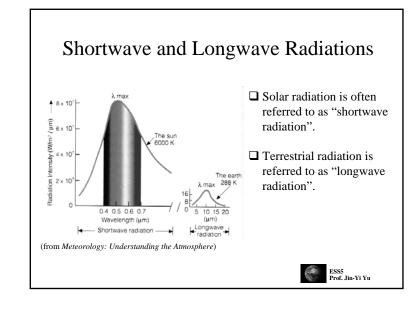


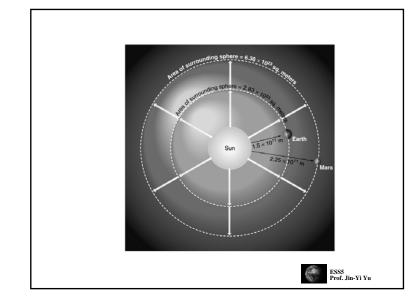


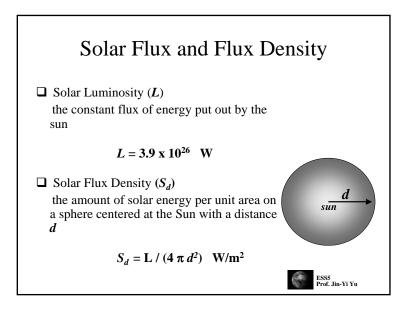


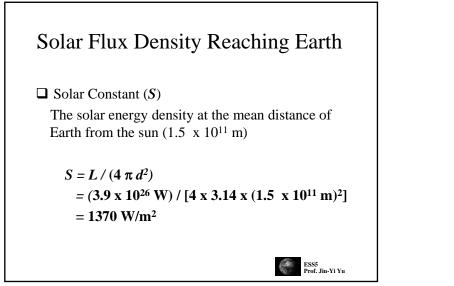


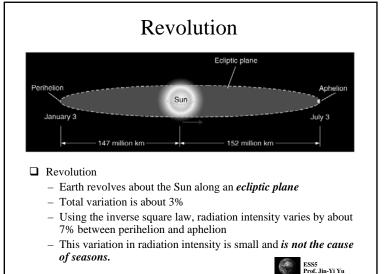


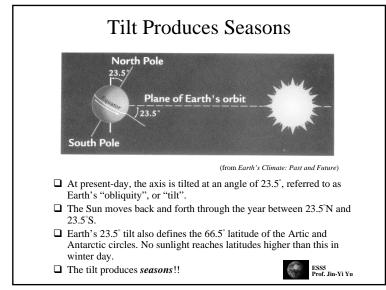


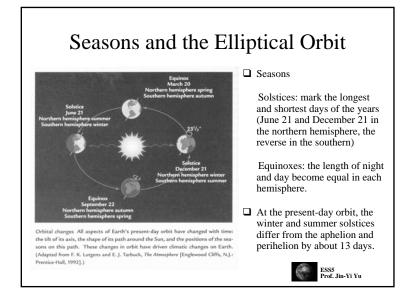


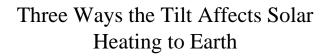






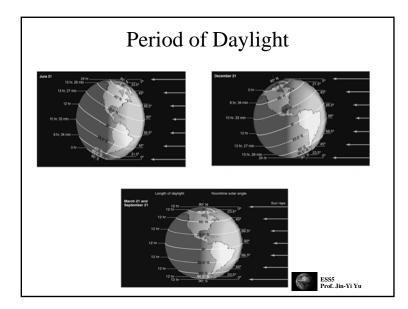


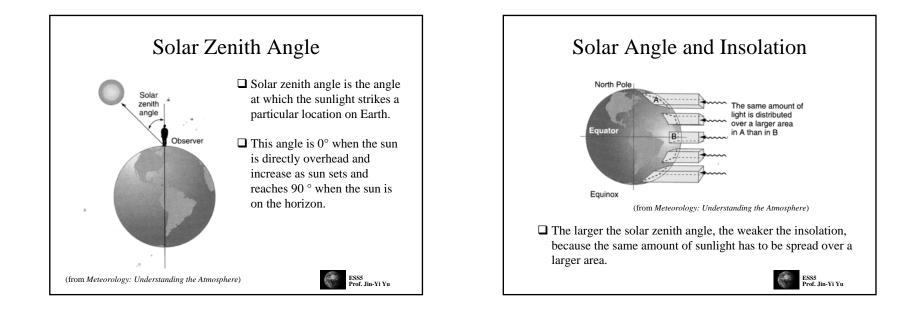


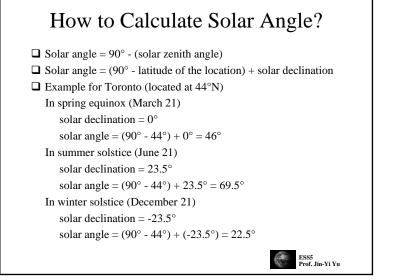


- Period of Daylight
- □ Solar Angle
- □ Atmospheric Bean Depletion

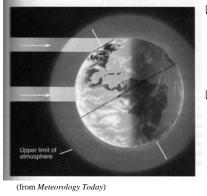
ESS5 Prof. Jin-Yi Yu







Atmospheric Bean Depletion



- When the zenith angle is large, sunlight has to pass through a thicker layer of the atmosphere before it reaches the surface.
- The thinker the atmospheric layer, more sunlight can be reflected or scattered back to the space.

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