

These Slides Accompany the YouTube Video Tutorial:
<https://www.youtube.com/watch?v=8dDHhlieEmI>

Temperature

INSULATION



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Factors affecting Insolation

Solar Constant

Loss in Solar Irradiation

Earth Sun Distance

Solar Variation

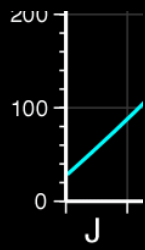
Axis, Shape & Altitude

Transparency in Atmosphere

Angle of Incidence

Length of Day

Variation in Solar Insolation

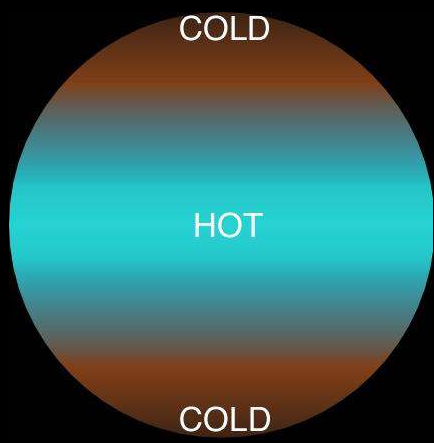
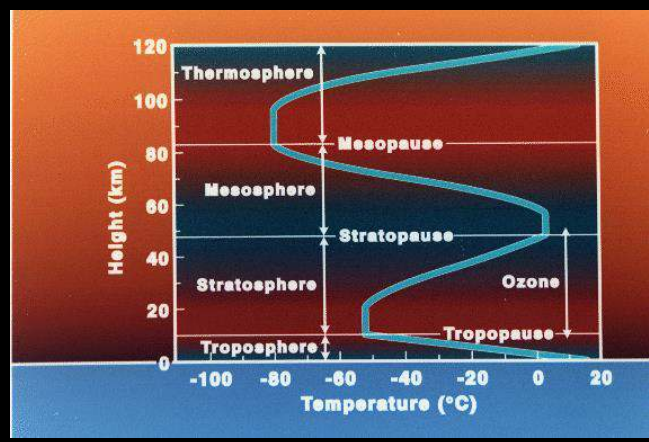


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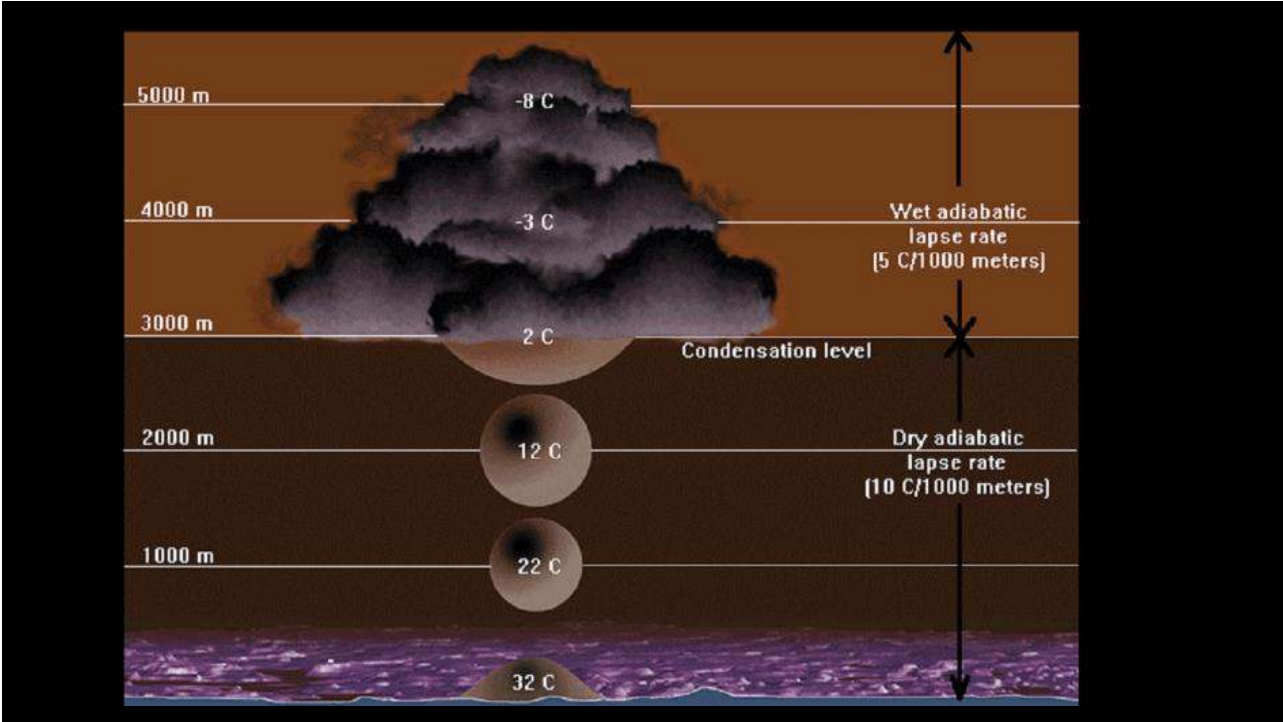
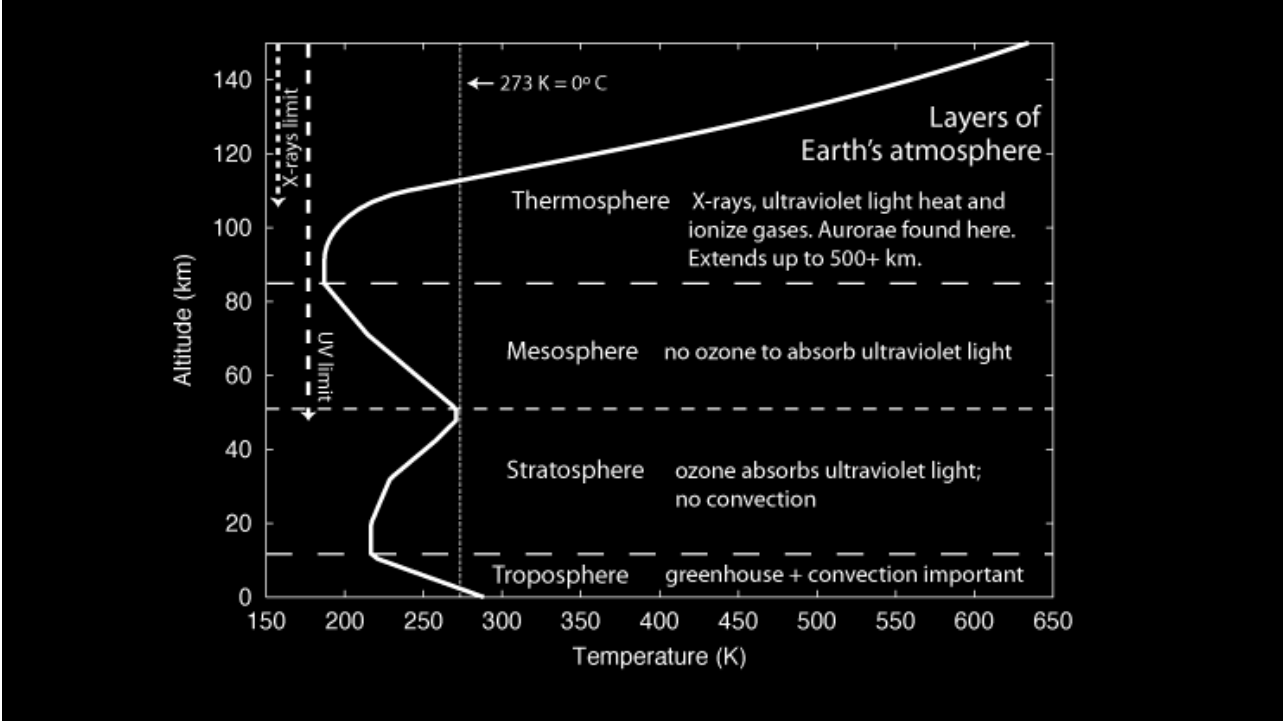
Radiation, Conduction & Convection



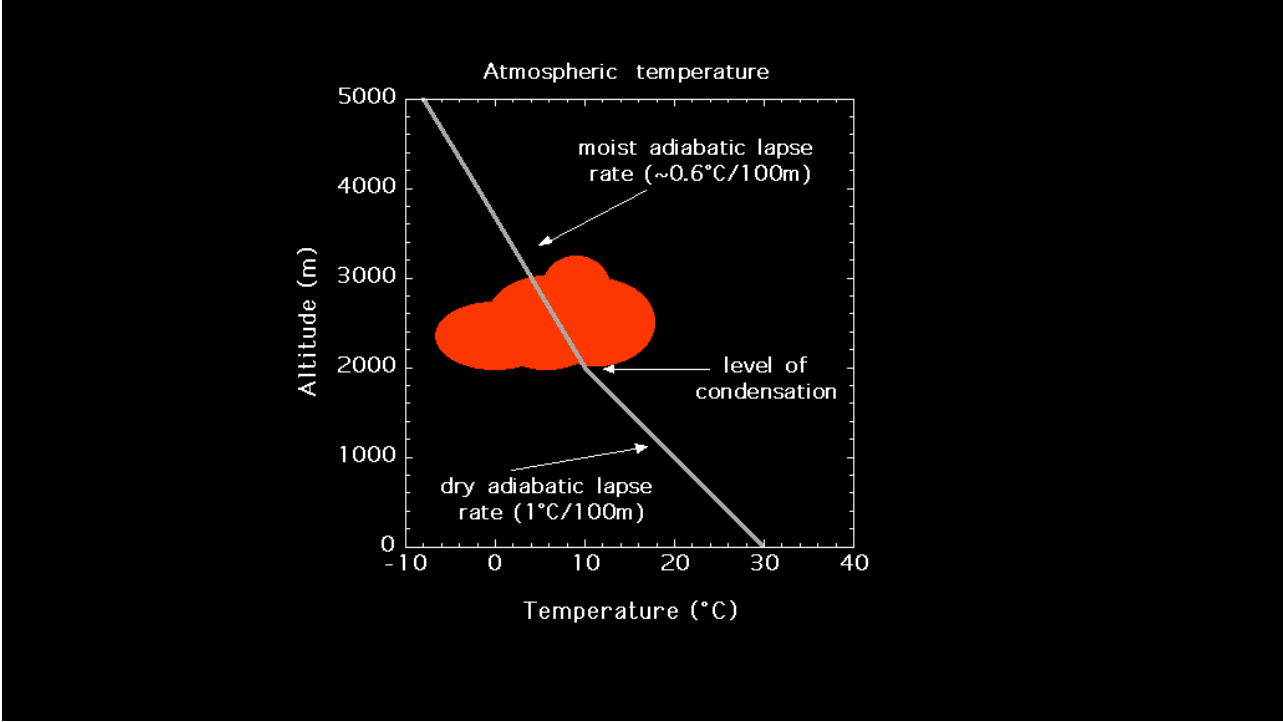
Vertical & Horizontal Temperature Distribution



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from Kelvin

Celsius $[\text{°C}] = [\text{K}] - 273.15$

Fahrenheit $[\text{°F}] = [\text{K}] \times \frac{9}{5} - 459.67$

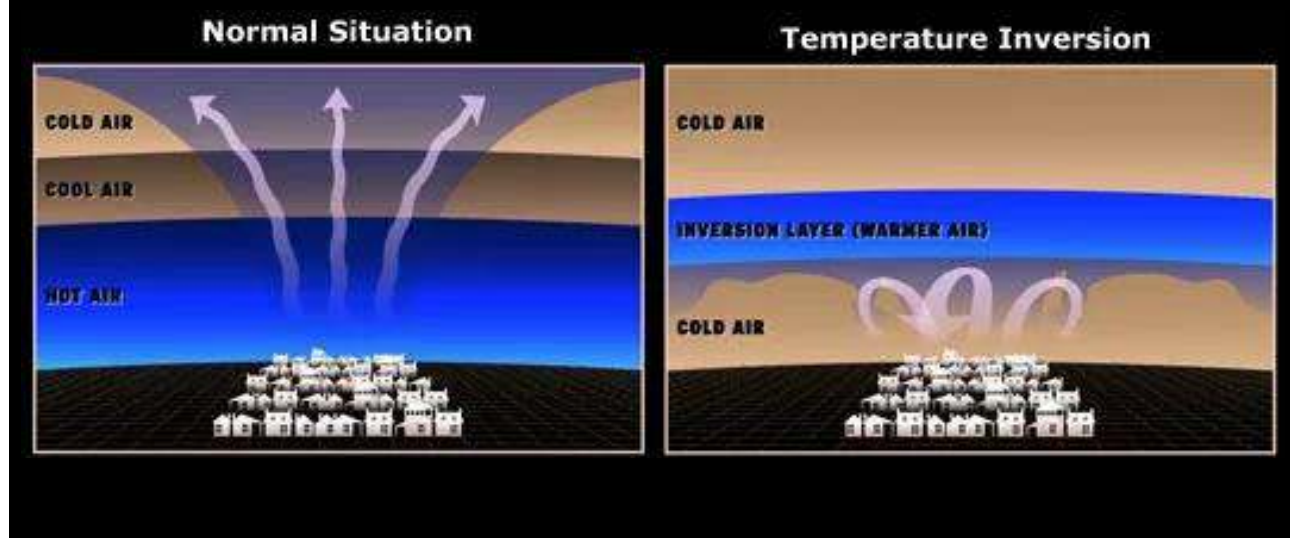
Rankine $[\text{°R}] = [\text{K}] \times \frac{9}{5}$

Scales of Temperature

	Fahrenheit	Rankine	Kelvin	Celsius
Boiling Point Water	212 °F	671.67 °R	373.15 K	100 °C
Freezing Point Water	32 °F	491.67 °R	273.15 K	0 °C
	0 °F	459.67 °R		
Absolute Zero	-459.67 °F	0 °R	0 K	-273.15 °C

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Next Class - Temperature Inversion



Further Next – Tibetan Plateau (Latest Developments)

