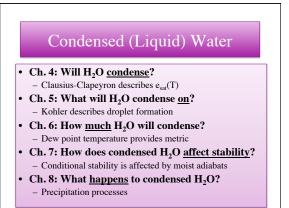
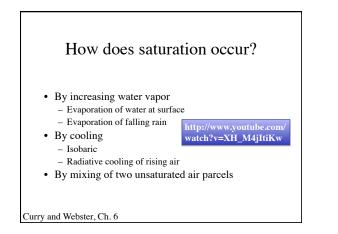


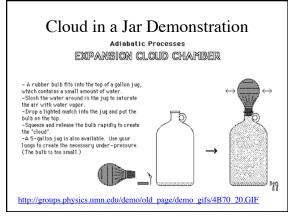
100%. For simplicity, we assume here that clouds form in the atmosphere when the water vapor reaches its saturation value and \mathcal{H} = 100%.

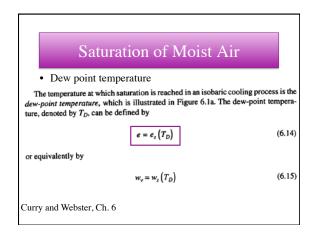
- Saturation of moist air
- Relationship between humidity and dewpoint - Clausius-Clapeyron equation
- Clausius-Clapeyron equ
- Dewpoint
 - TemperatureDepression
- Depression
- Isobaric cooling
- Moist adiabatic ascent of air
- Equivalent temperature
- Aerological diagrams

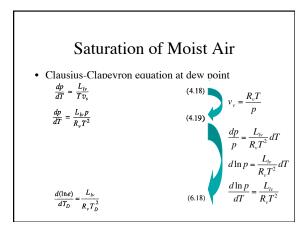
Curry and Webster, Ch. 6

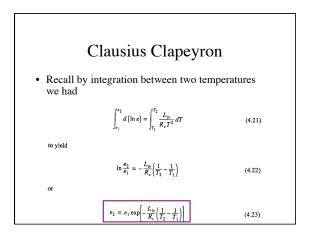


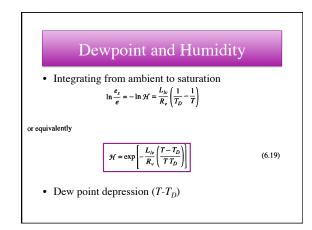


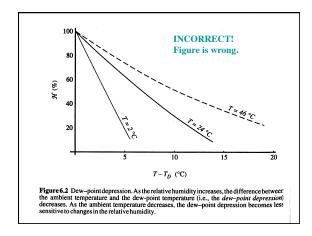


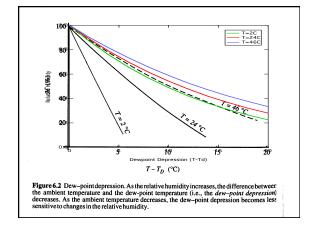


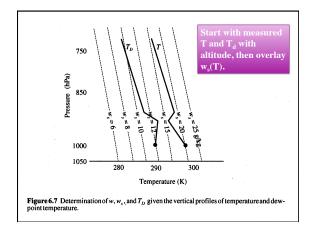


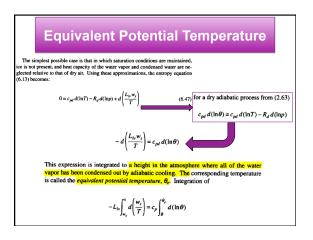










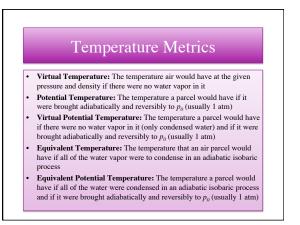


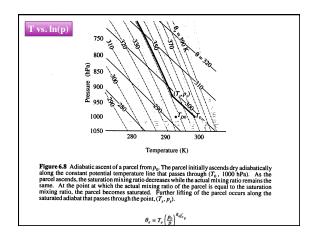
Equivalent Potential Temperature

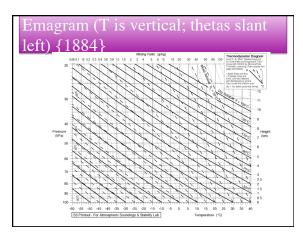
· Accounts for liquid water heating

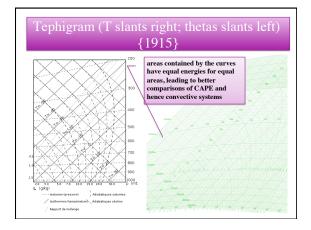
$$\theta_e = \theta \exp\left(\frac{L_{lv} w_s}{c_{pd}T}\right) \tag{6.48}$$

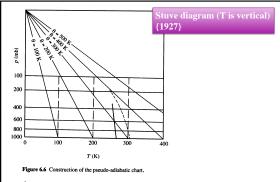
Although approximate, (6.48) retains the condensation of water vapor provides energy to the moist air and increases its temperature relative to what the temperature would have been in dry adiabatic ascent.

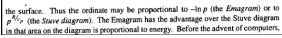


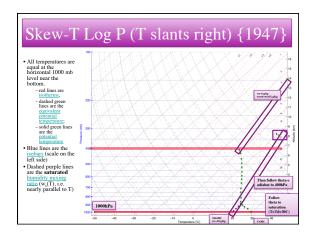


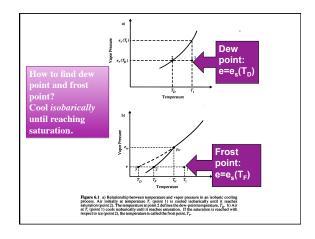


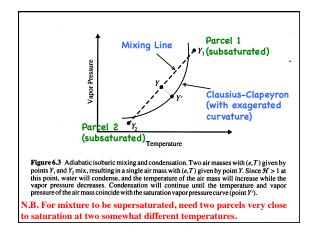


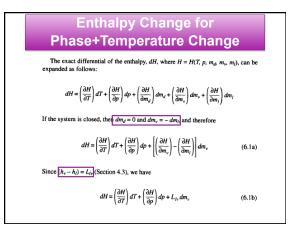


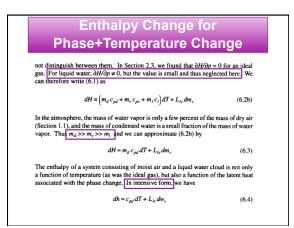


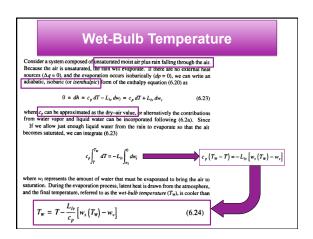


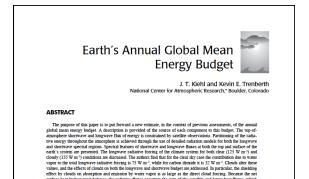












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