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Stability, a crucial factor in determining the vertical motion which causes expansional cooling, is thoroughly . discussed. Processes which produce lifting are described. Laboratory Assignments focus on the interaction between pressure, temperature, and clouds (6A), and on the relation between saturation and rising and sinking motion (6B).

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Lifting and saturation ! Two effects counter each other, but do not cancel out ! Change from T larger than change from P When a parcel rises, its dew point temperature goes down ! Dew point lapse rate is roughly 2°C/km ! Therefore a rising unsaturated parcel will

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Saturation And Atmospheric Stability Lab

Lab 5: Saturation and Atmospheric Stability Saturation Recap How to Reach Saturation Mixing Lifting Two basic ways air achieves saturation (relative humidity =100%): 1. Cooling 2. Increasing water vapor content How can this be done?

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