

Laboratory #3: Skew-T Questions to answer in class.

Choose a favorite location and time from the site
<http://weather.uwyo.edu/upperair/sounding.html>

Skew-T station: _____

[For example, 72489 REV Reno, Nevada. 00Z 30 July 2014 (PST 5pm July 29)]

What is the surface temperature in the station you selected?

What is the surface dew-point in the station you selected?

3. What is the lifting condensation level (LCL) for this sounding?

4. What is the wet bulb temperature (TW)?

5. Show an interval of pressures where you may find absolute stability or absolute instability. Explain.

6. From the surface to about 750 mb, what kind of stability is experienced?

7. In what layer would clouds (if any) be located in the sounding? (give a range of pressures)

8. Calculate the RH (relative humidity) at the surface, and at the LCL, using the mixing ratio and the saturation mixing ratio.