What is a Radiosonde

 Balloon carries meteorological instruments aloft

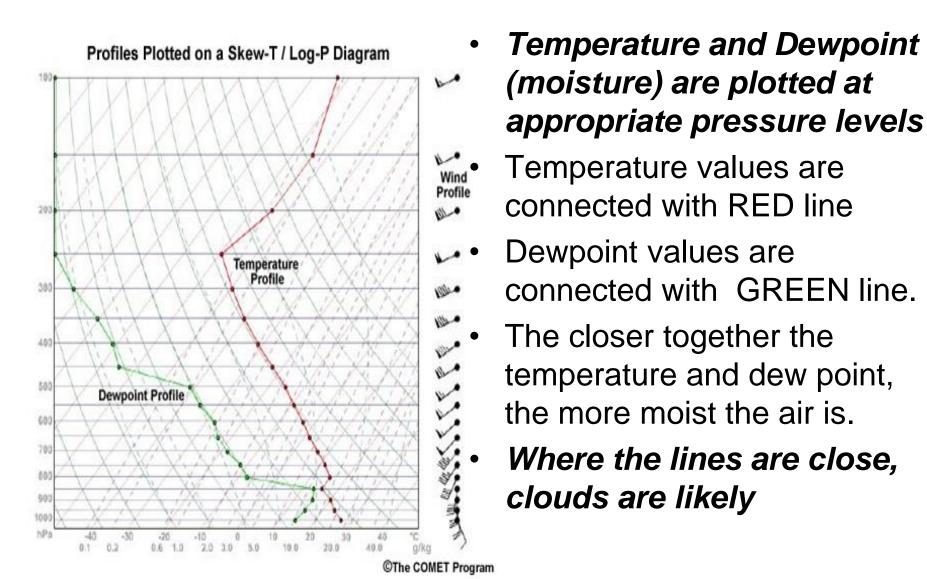
- <u>Temperature</u>, <u>moisture</u> and <u>wind</u> measured at many levels
- Provides <u>snapshot of these</u> <u>variables</u> in the vertical
- This information allows meteorologists to <u>diagnose the</u> <u>atmosphere</u> in the vertical



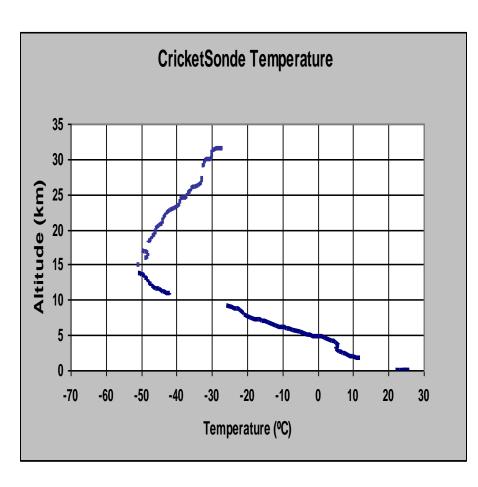
Why these measurements are important

- These observations <u>allow us to diagnose the</u> <u>atmosphere</u> similar to the snapshot that blood pressure measurements provide the doctor
- When coupled with surface weather reports and satellite data, we get a 3 dimensional view (horizontal, vertical and time) of atmosphere
- These measurements provide clues assisting the meteorologist in <u>understanding and anticipating</u> <u>motion in the atmospheric</u>

What a vertical plot looks like



Note relationship between temperature and altitude

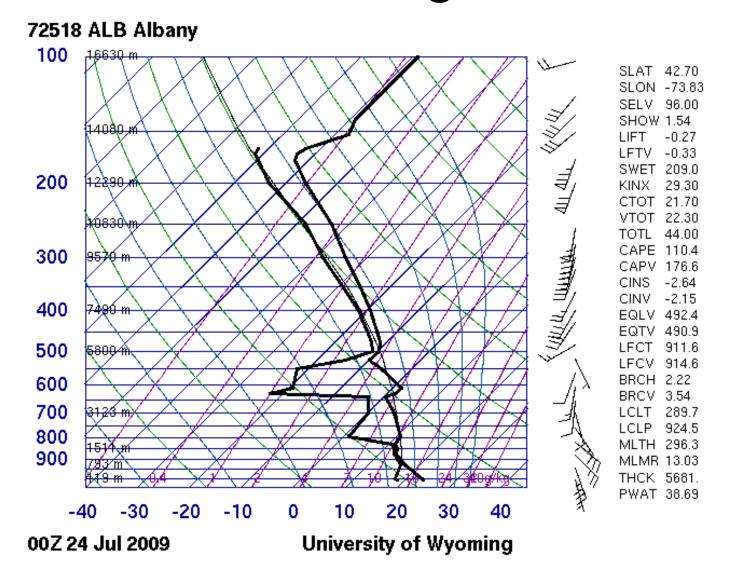


- Temperature decreases with altitude in lower portion of atmosphere (Troposphere)
- Temperature increases with altitude in upper portion of atmosphere (Stratosphere)

Have fun with today's balloon launch



Albany, NY sounding at 8:00pm last night



Maniwaki, PQ sounding at 8:00pm last night

71722 WMW Maniwaki

