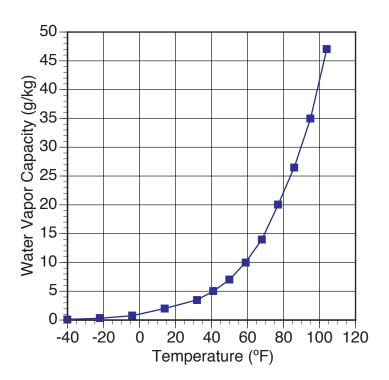
Laboratory Key #7 - Atmospheric Sciences - Part 1

1.	No, the thit does not change. If it did, we would not have seasons.				
2.	Northern Hemisphere Southern Hemisphere	Winter Dec 21-22	Spring Mar 21-22	Summer Jun 21-22	Fall Sep 22-23
		Jun 21-22	Sep 22-23	Dec 21-22	Mar 21-22
3.	Equator = 90° 30° N = 60°	60° N 90° N			
4.	The sun is lowest in the horizon in the winter, the coldest time of the year.				
5.	Length of day is greatest in the summer; least in the winter				
6.	The length of day and night is roughly equal during the spring and the fall (equinoxes).				
7.	~27° F				
8.	~110° F				
9.	if the sun is higher in the sky and the day is longer it is hotter; if the sun is lower in the sky and the day is shorter it is colder;				
10.	all except Dec, Jan, Feb				
11.	All months can exceed 90° in Laredo				
12.	see figure on the top of page 2				
13.	as temperature decreases, water vapor capacity decreases				
14.	as temperature increases, relative humidity decreases				
15.	100 %				
16.	condenses to a liquid or sublimates to a solid				
17.	the temperature at which water vapor content equals water vapor capacity and relative humidity equals 100%				
18.	105° F @ 15:00; 79° F @ 5:00				

1. No, the tilt does not change. If it did, we would not have seasons.



- 19. ~95% @ 5:00; ~40% @ 15:00
- 20. they are an inverse relationship
- 21. no, it gets close early in the morning
- 22. yes, dew point temperature rarely varies much throughout a day
- 23. true, as temperature increases, relative humidity decreases and vise versa
- 24. High pressure
- 25. 29° F @ 22:00
- 26. no, the lowest temperature typically occurs early in the morning
- 27. after 18:00, when precipitation starts
- 28. begins at 18:00 and continues after midnight
- 29. Snow
- 30. humidity goes up, dew point stays fairly constant
- 31. an inverse relationship

32. Low pressure

on 8/22/06 @ 16:00 hours

Temperature = 105° F Dew Point T. = 79° F

on 12/24/04 @ 22:00 hours

Temperature = 29° F Dew Point T. = 29° F