ATM 211
Name:___________________________

Early semester contour analysis
Contour temperature every 5°F in black
Contour dew point every 10°F in green

After completing the contour analysis, answer the following questions.

1a) Where, geographically, is the highest concentration of water vapor (highest dew point) at the surface? What is the dominant wind direction in this region?

1b) Based on this wind direction, why is there such a high concentration of water vapor in this region? Think about the source region of this air.

2a) Where, geographically, is the atmosphere most dry (lowest dew point) at the surface? What is the dominant wind direction in this region?

2b) What are the temperatures like in this region? Based on the wind direction and regional geography and topography, why do you think this is the case? (Hint: Think about parcels on a Skew-T)

3) Where is the observation with the lowest temperature located? Why might the temperature be so low here?