**Lab 1: Surface Weather Maps**

**Question 1:**

Reference Figures 1 and 2 in the first two pages of the lab for descriptions of all weather map symbols. You should be talking about a total of 12 things. **WRITE UNITS**

For PRESSURE, remember how weather station models write it: The beginning 9 or 10 is omitted, and you need to move the decimal one place over to the left. If you aren’t sure whether you should have a 9 or a 10, think about what will get you closest to average surface pressure (1000 mbar).

Example: If the station model says pressure is “093,” the pressure is 1009.3 mbar.

**Question 2:**

<http://weather.weatherbug.com/forecasts/now/college-park-md-20740>

For pressure, convert from inches of mercury to mbar (you can google the conversion – no need to show the math)

You don’t need to write anything for “current weather.”

When it comes to cloud cover, you don’t have to be as specific as figure 1 suggests you should be. Think about how much you should fill in the circle for partly cloudy, mostly cloudy, clear, and cloudy. Be accurate within 1/4 rather than 1/8th.

**Skip Question 4.**

**Question 5:**

Draw and label isotherms (lines of constant temperature). **DO NOT USE THE MAP IN THE LAB MANUAL. Use the one given to you by me and use an interval of 10 degrees instead of 5 degrees.** Remember which number is temperature on a station model (don’t mix it up with dew point).

For a tutorial on how to draw isobars, consult this:

<http://web.gccaz.edu/~lnewman/isoplething%20tutorial.html>

REMEMBER TO LABEL YOUR ISOTHERMS (so we know what temperature the lines represent)

**Question 6**:

Do this on the map you just used for number 5

**Skip Question 7**

**Question 8:**

Be sure to give me the CHANGE in pressure, not just the new pressure

**Question 9 and 10:**

Hint: Look at the **date** for Figure 5.