**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Weather Forecasting and Map Analysis**

Map 1: Current Fronts and Pressure

Look at the Current Fronts map to answer the following questions:

1. What does the “H” stand for?

2. What does the “L” stand for?

3. What type of weather is associated with high-pressure systems?

4. What type of weather is associated with low-pressure systems?

5. What fronts are shown on the map?

6. In a cold front, what air mass (hot or cold) is advancing (it won!)?

Map 2: Temperature

Look at the Temperature map to answer the following questions:

1. What temperature is associated with yellow?

2. What temperature is associated with the color green?

3. Why are temperatures hotter in Florida than in Maine? (Include the word “equator” in your response.

4. What is the temperature in Charlotte, according to the map?

5. What is the current temperature in Pittsburgh?

6. Do you notice any temperature patterns across the US? If so, explain.

Map 3: Relative Humidity

Look at the Relative Humidity map to answer the following questions:

1. Is humidity the same throughout the entire US?

2. What relative humidity does yellow represent?

3. What is the relative humidity in Charlotte?

4. What is relative humidity?

5. Describe the saturation of air at location 1 compared to location 2.

6. Is rain more likely in location 1 or location 2? Explain your answer.

Map 4: Wind

Look at the Wind speed and direction map to answer the following questions:

1. How fast are winds that are represented with the color green?

2. What is the approximate wind speed in Charlotte?

3. Are winds pointing towards or away from Charlotte?

4. What is the approximate wind speed at location 2?

5. Why might wind be greater at location 2 than in Charlotte?

Map 5: Precipitation

Look at the Precipitation map to answer the following questions:

1. How many inches of precipitation were recorded at location 1?

2. How many inches of precipitation were recorded at location 2?

3. Look at the key. How many inches of precipitation are represented by the color orange?

4. How many inches of precipitation are represented by dark green?

5. An air mass forms over the ocean and moves towards Charlotte. Would you expect precipitation to increase or decrease? Explain.

6. An air mass forms over land and moves towards Pittsburgh. Would you expect precipitation to increase or decrease? Explain.