Lab 1 Activity

**TASK 1:** Obtain the surface maps for the Southeast region from December 23\textsuperscript{rd}, 2014 at 21 Z to December 24\textsuperscript{th}, 2014 at 21 Z. Using the station plots, describe the evolution of the weather in this region over this 24 hour period. Your discussion should include:

- The change in temperature and dewpoint temperature during this period
- The change in the pressure and the pressure tendency during this period
- The change in wind speed and wind direction during this period
- The change in the intensity and amount of precipitation during this period
- The change in the current weather during this period

**TASK 2:** Obtain the METAR reports from Montgomery, Alabama from the same time period as Task 1. Using the raw METAR data, describe the evolution of the weather over this 24 hour period. In your discussion include

- The change in temperature and dewpoint temperature during this period
- The change in the pressure and the pressure tendency during this period
- The change in wind speed and wind direction during this period
- The change in cloud cover during this period
- The change in the intensity and amount of precipitation during this period
- The change in the current weather during this period
- Any other special features observed in the remarks section of the METAR data

**TASK 3:** Based on the completion of Task 1 and Task 2, what type of weather system do you think is passing through the area?