Objective: To observe atmospheric conditions over a four-day period and incorporate your understanding of major atmospheric concepts.

Log your atmospheric conditions for each day in the table below. After you have logged your data for the four days, you will then compare actual measurements with the North Carolina State Climate Office (SCO) at www.climate.ncsu.edu for the station closest to your location.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Day One | SCO | Day Two | SCO | Day Three | SCO | Day Four | SCO |
| Date |  |  |  |  |  |  |  |  |
| Location on campus |  |  |  |  |  |  |  |  |
| High Temperature (F) |  |  |  |  |  |  |  |  |
| Low Temperature (F) |  |  |  |  |  |  |  |  |
| Air Pressure (AP) (mb) |  |  |  |  |  |  |  |  |
| AP Rising or Falling? |  |  |  |  |  |  |  |  |
| Wind direction |  |  |  |  |  |  |  |  |
| Wind Speed (mph) |  |  |  |  |  |  |  |  |
| Time of Sunrise |  |  |  |  |  |  |  |  |
| Time of Sunset |  |  |  |  |  |  |  |  |
| Length of Daylight |  |  |  |  |  |  |  |  |

Analysis

1. What is the overall four-day temperature trend?
2. What is the overall four-day pressure trend?
3. How has the weather changed over the last four days? Relate this to the pressure.
4. How did the wind direction change over the last four days? Why did it change?