After many of weeks of confusion and frustration with this lab I believe I think I finally might have it right. With professor Groth’s help and data I was able to plug it into my Excel spread sheet and get some data. From the data I was able to make four different graphs relating Altitude Deviation, Longitude Deviation, Latitude Deviation all to time and the Longitude Deviation to Latitude Deviation. This was probably the hardest part for me as I am not a wiz with excel. I was also able to determine the average latitude, longitude, and altitude deviations as well as computing the standard deviation of the three. I am not sure if all the graphs are correct but I gave it a shot at least.

The purpose of this lab was to determine how accurate our GPS receiver were when they were still for an hour. The data was collected in NMEA format with WAAS disabled. If WAAS would have been enabled in this project the GPS would have been a little more accurate in determining the position because WAAS is accurate to within 3 meters of location 95% of the time.

The location that this data was taken at was Longitude : 40.3389908 and Latitude -74.76106467. I had a hard time find exactly where this place was cause I wasn’t able to convert these numbers into the right longitude and latitude things.