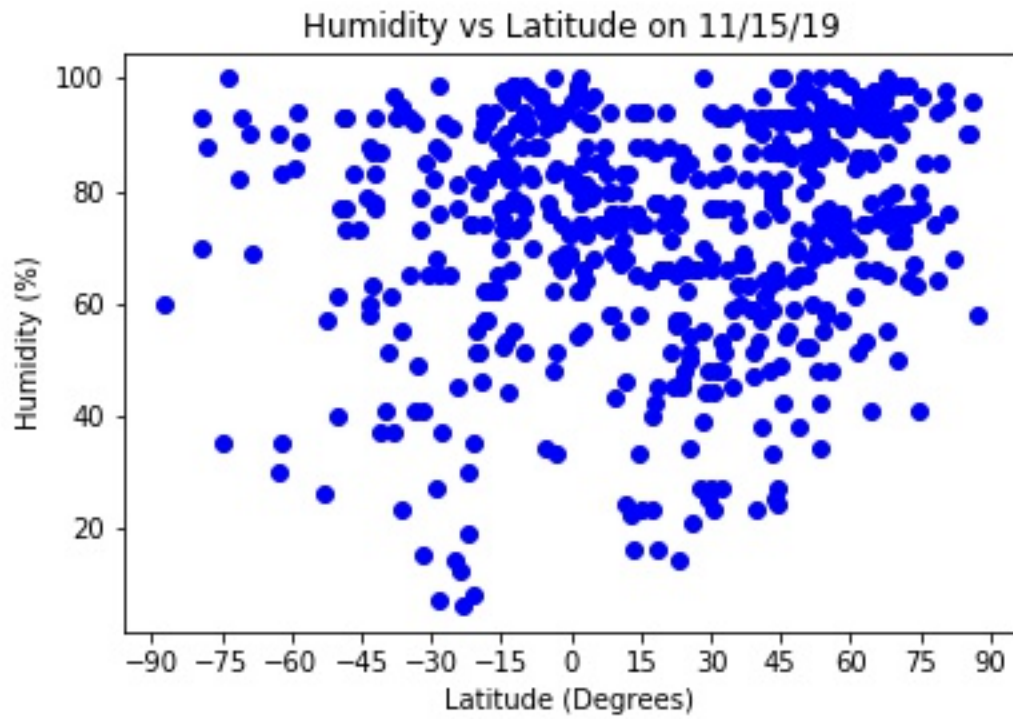


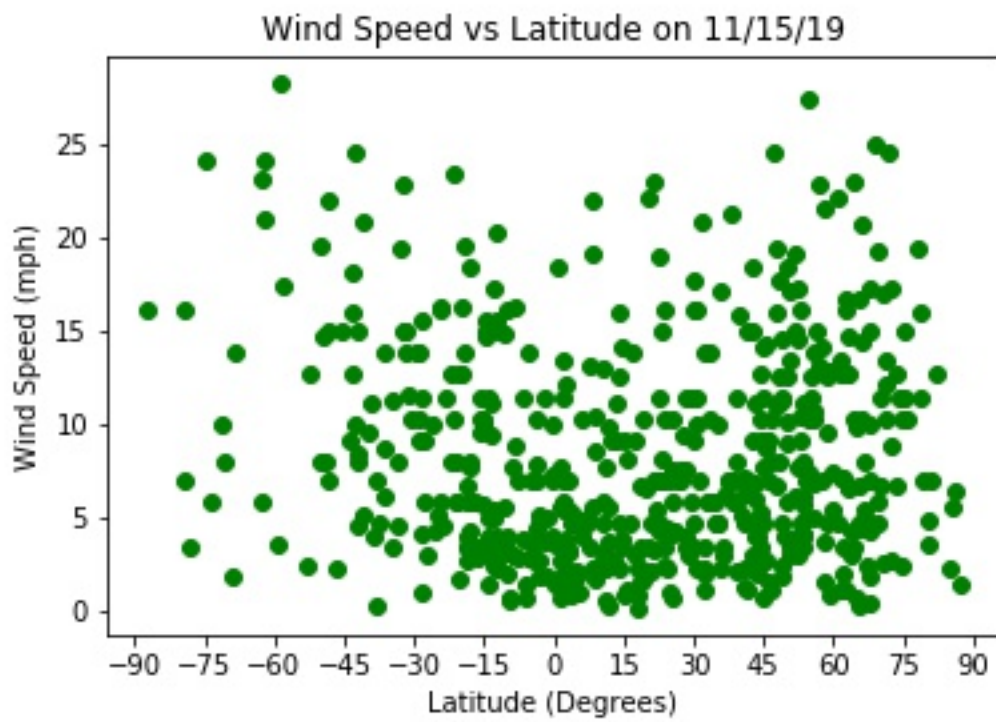
Observation #1:

The temperatures are the highest nearest the equator based on the plot of the temperatures for the 500 random cities plotted. Also, the temperatures are higher in the southern hemisphere on 11/15/19 compared to those in the northern hemisphere where the winter season is approaching versus the southern hemisphere cities waiting on the summer season.



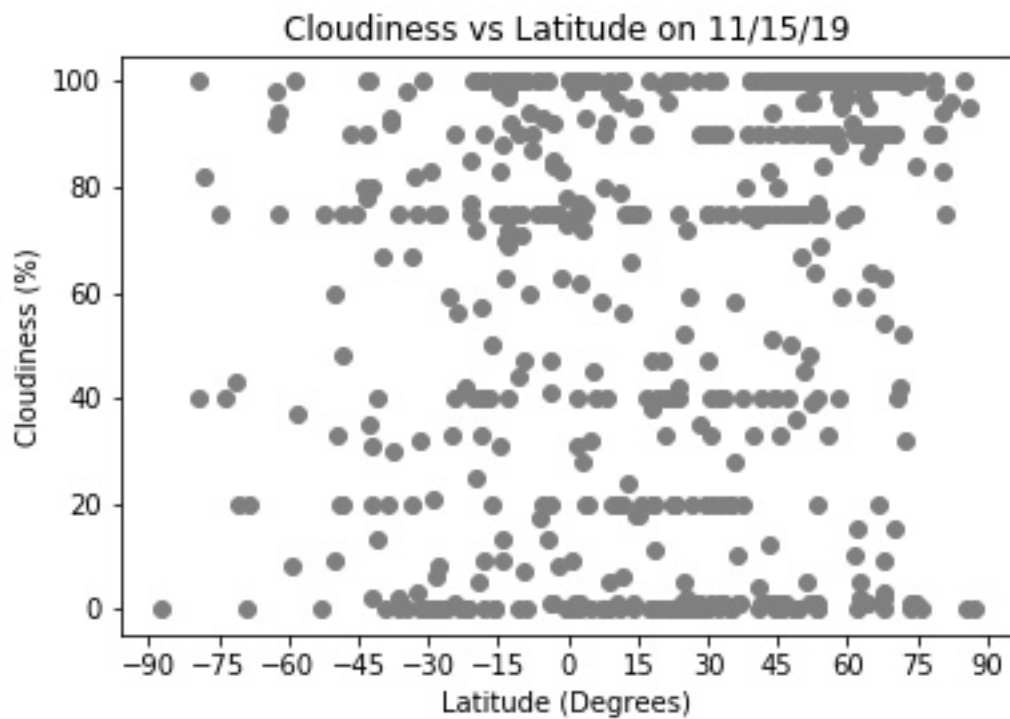
Observation #2:

Based on the plot of humidity versus latitude for the 500 random selected cities on 11/15/19, there does not appear to much difference in humidity based on latitude. There are more random cities located in the northern hemisphere but overall humidity is high (over 50%) for most cities on 11/15/19.



Observation #3:

Based on the plot of wind speed versus latitude for the 500 random selected cities on 11/15/19, there does not appear to any difference in wind speed among the latitudes.



Observation #4:

Based on the plot of cloudiness versus latitude for the 500 random selected cities on 11/15/19, there does not appear to be any difference in cloudiness among the latitudes. There is evidence in the data of certain values being used to describe cloudiness. Those values are 0, 20, 40, 75, 90, 100. They probably correspond to clear, partly clear, scattered clouds, partly cloudy, cloudy and overcast.