**Three Observations from API Data**

1. The most striking observation was how clustered the Max Temp data was towards 0 latitude i.e. those cities located along the equator. It is also very easy to see how the Max Temperature drops the further away you get from the equator. I was able to determine that Latitude and Max Temperature are negatively correlated i.e. as your latitude increases and you get further away from the equator, the more that city’s Max Temperature will drop.
2. The City Latitude vs. Humidity and City Latitude vs. Cloudiness figures looked very similar in my outputs. I assume this is because there is some correlation between Humidity and Cloudiness – when the relative humidity of a certain area reaches 100%, the air will become saturated and clouds will form. In my Jupyter Notebook, I overlaid Cloudiness vs. Humidity, and you can clearly see that the more humid a city is, the higher its levels of cloudiness are.
3. The City Latitude vs. Wind Speed plot was interesting, because just from observing the plot, it appears that wind speed increases the further away your latitude is from the equator. There is one other observation that was most apparent, however, and that was the fact that there is clearly some correlation between Humidity and Wind Speed. I overlaid Wind Speed vs. Humidity, and it is very easy to see from the scatter plot that the higher the humidity in a given city, the lower the wind speeds will be.