WeatherPy

Trends in the weather

Prompt: For Part I, you must include a written description of three observable trends based on the data.

It is interesting to see the relationship between the Max Temp vs the Cities Latitude in plot one. I would expect it to have more of a bell curve shape with max temp and the 0-marker showing the highest temperature and an even curve as you go further and further away from the equator. However, after closer examination of the plot we can conclude that the reason for the shape of the plot points can be explained by the position of the earth at the time of the data. For example, if the southern hemisphere (any negative latitude numbers) were in its winter season or summer season would change the max temp of the data. Seeing that the Max temp is at 40 degrees Fahrenheit at -20 latitude, I would assume that this information was taken when the southern hemisphere was in its summer season.

Looking at the relative humidity to city latitude data, a good percent majority of humidity lies in Latitude 60, after a deeper look into the whereabouts of latitude 60 I found that it is primarily coastal cities including Anchorage, Alaska; Bergen, Norway; and Yakutsk, Russia which is not near a coast line but is right on the Lena River which explains a larger humidity percentage.

Lastly there is no surprise when you look at the correlation of the Max Temp in the Southern hemisphere vs the Latitude. The linear regression shows a steady positive climb moving from -50 degrees latitude closer to 0. The positive relation meaning higher Temperatures as you get closer to the equator moving away from the Southern Ocean and Antarctica