WeatherPy Analysis

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After plotting the data into four categories of; latitude vs. temperature, latitude vs. humidity, latitude vs. cloudiness, and latitude vs. wind speed, into scatter plots. I was able to analyze some trends in the data that correlated to typical understanding of environments based upon latitude.

In the first plot, latitude vs. temperature, we se a shifted curve that peaks around the 20th latitude. Which indicates that the tilt of the earth is in such a way that the northern hemisphere is pointed more directly towards the sun. This data was compiled on 09/20/2019. Which is the end of the summer and it is transitioning into fall. I’m sure that closer to the fall equinox you would observe a shift of the peak towards the equator. Another observation that can be discerned from this scatter plot is that as the latitude moves further away from zero, there is a decrease in temperature which and the further away from zero the colder it gets. Also, each side of the peak has a different slope, this is probably another indication of seasonal behavior based upon the rotation of the earth around the sun.

Of all the information that was gathered and put into scatter plots, the first one was easier to analyze. Of the other three, I could not find and discernable trends that would indicate a change in weather. They all seemed to follow a similar pattern through the change in latitude. I am sure that aspects like geography, time of the year and even ocean currents can change the weather in certain locations independent of the change of latitude.

In conclusion, the only real discernable aspect that can have an affect based upon latitude position is temperature.