David Winton Written Report API Homework “WeatherPy” 12/29/2019

Data for “WeatherPy” included location, temperature, and weather conditions for 566 random cities from around the globe. The following weather trends were noted:

1. Temperatures remained relatively steady for cities located 20 degrees above and below the equator. However, cities below the equator showed higher temperatures due to it being the start of summer below the equator versus the start of winter above the equator.

However, the greatest concentration of cities with weather data were located between 20 degrees and 60 degrees above the equator. Those temperatures ranged from the mid-80s F to 20-degrees F.

1. Humidity remained rather uniform, except for cities between 40 and 80 degrees above the equator, which indicated a higher concentration of humidity levels between 80% and 100%.
2. Cloud cover seemed uniform across the global cities with areas between -20 degrees and 15 degrees indicating 100% cloud cover, as well as areas between 45 degrees and 70 degrees. This would indicate greater chances for precipitation when taking into consideration that cities in the same Latitudes are reporting higher Humidity levels.

Summary

Based on the above data, it appears that cities between -20 degrees and 60 degrees, are experiencing precipitation, due to cloud cover and humidity levels. Cities with temperatures above 32 degrees, would be having rain or possibly mixed frozen precipitation. Meanwhile the remaining cities, with temperatures below 32 degrees, are experiencing frozen precipitation, which is probably snow.