1. Introduction
   1. This report outlines the findings of WeatherPy data analysis that has been performed as part of the SMU API homework response
2. Purpose of the Analysis
   1. This analysis was provided on the WeatherPy data set and is intended to identify weather trends from around the world off the equator.
3. Key Documents
   1. A data set was provided in json format that was gather from the OpenWeatherMap API as well as Citipy. Include with that data set was documentation on the API calls and setup.
4. Methods
   1. The data was analyzed in Jupyter notebooks using Python, Matplotlib, Numpy, Time, citipy and Pandas. All data was imported into the notebook and various methods were incorporated to ensure accurate reporting and data visualization. The CitiPy API was randomized to gather at a minimum of 500 cities Lat/Lon.
5. Results
   1. From the 500+ cities it was obvious that the max temperature increased as you neared the equator however it maxed out around 20 latitude.
   2. Humidity and Cloudiness seem to not depend at all on there position from or around the equator
   3. Wind speed see to show equal across the world however there was a slight trend at or about 60 latitude that was showing significate increase however it was not very wide spread in the cities selected.
6. Quality of date
   1. The dataset was overall very useful. It was complete and did require some clean up due to data not being available for some of the cities selected.