Observable Trends based on the Data (3).

Max Temp vs Latitude Humidity vs Latitude

The Temperature is highest on the Northern Hemisphere. Currently it is summer in the N.H. and in the Southern Hemisphere it is winter. Also the length of the Day during Summer vs Winter also influences the Higher Temperatures. Mainly the highest temperature/frequency are showing between latitude 20 to 50.

The Humidity is also higher on the Northern Hemisphere which is quite similar to the Temperature plot. The higher Temperature might also influence the level of evaporation thusly increasing the atmospheric increase in % of Humidity.

In order to get a proper Temperature measure it would be good to do a check with the longitude as well as the altitude. To prove that higher altitudes independently of Latitude also affect the results in Temp.

Cloudiness vs Latitude

Cloudiness with Latitude and Longitude could be a better metric along with the correlation with Humidity.

Wind Speed vs Latitude

Wind Speed and Latitude provide similar information showing higher frequency (not necessarily higher speed) on the same Latitudes as Max Temp and Humidity. It would be good to co-relate the Huricane/Typhoon season along with the longitudes.

Overall this is a snapshot of the data, but it would be beneficial to provide a historical record of the same data over the 4 seasons and removing the outliers that are due to seasonal behavior (Hurricanes/Typhoons/Nordic storms-affecting wind speed and humidity). El nino (affects water temperature, humidity and possibly air temp), etc.