Burr\_WeatherPy

Trends based on Scatter Plots:

(1) The max temperature and latitude exhibit a clear relationship with the temperature peaking at latitudes near 0 to 20 degrees. This illustrates the relationship between temperatures near the equator which are warmer throughout the year. As we move further from the equator in both directions, the max temperature declines until we reach the extreme polar ends where the max temperature reaches the lowest points.

(2) There does not appear to be any relationship between humidity and latitude. We see that 100% humidity is nearly evenly distributed across our range, but notably the lower humidity ranges are more concentrated around 20 to 40 degree latitude.  However, this is simply a sample and snap-shot in time, it would be difficult to conclude that a relationship exists between humidity and latitude based on this chart and this sample of data.

(3) There does not appear to be any relationship between cloudiness and latitude. The observations are nearly evenly distributed across the plot. It is more likely that cloudiness is driven by currents, proximity to oceans, and natural barriers such as mountains. Same note as above, it would be nearly impossible to identify a relationship based on this plot.

(4) Finally, there does not appear to be any relationship between wind speed and latitude either. Again, the observations are fairly well distributed across the plot with no clear pattern. A time series dataset might be able to detect relationships between latitude and wind speed that a cross-sectional dataset from a single moment in time is unable to reveal.