1. The max temperature vs. latitude graph does indicate that temperature decreases with increasing latitude passed the equator. Also, the start of the same trend (i.e., decreasing temperature) can be seen with decreasing latitude passed the equator. And based on the fact that temperatures in Antarctica are cold, it is likely that this trend continues (i.e., at latitudes lower than -60 degrees).
2. Temperature is not correlated with longitude.
3. Higher values of humidity (i.e., 50% or more) are more common than lower values of humidity (i.e., 50% or less).
4. Neither humidity, cloudiness, nor wind speed appear to be correlated with latitude.