Chart, scatter chart

Description automatically generated

The r-squared is: 0.11299329794262876

Intercept: 28.16056152395587, rvalue: -0.3361447574224961, pvalue: 2.020116040192804e-08, stderr: 0.025668972660123975

Slope: -0.14857620229852334, it's a negative relationship

In Northern Hemisphere, temperatures are higher/warmer for regions that have latitude closer to equator; temperatures are lower/cooler to the regions that latitudes are further away from equator.

More cities were found at the latitude range of 5 to 30 degrees latitude.

Chart, scatter chart

Description automatically generated

The r-squared is: 0.40548016626154576

Intercept: 24.403761603820094, rvalue: 0.6367732455604159, pvalue: 1.8727739379793587e-23, stderr: 0.03458912240353208

Slope: 0.39581458373475087, it's a positive relationship

In Southern Hemisphere, temperatures are higher/warmer for regions that have latitude closer to equator; temperatures are lower/cooler to the regions that latitudes are further away from equator.

More cities are found at the latitude range of 0 to -26 degrees latitude. Cities are quite evenly spread.

In comparing to the Northern Hemisphere’s temperature plot figure, the linear equation line almost opposites to the Southern’s.

Chart, scatter chart

Description automatically generated

The r-squared is: 0.031648989392805006

Intercept: 78.48776763431835, rvalue: -0.17790162841527057, pvalue: 0.0036660697267071832, stderr: 0.10254537705292595

Slope: -0.30064741831419906, it's a negative relationship

In Northern Hemisphere, humidity is higher for regions that have latitude closer to equator; humidity is lower to the regions that have latitude closer to equator.

Chart, scatter chart

Description automatically generated

The r-squared is: 0.07976332504730259

Intercept: 84.57150032242023, rvalue: 0.2824240164138004, pvalue: 6.612350678019683e-05, stderr: 0.11524282902129696

Slope: 0.4701282854284293, it's a positive relationship

In Southern Hemisphere, humidity is higher for regions that have latitude closer to equator; humidity is lower to the regions that have latitude closer to equator.

In comparing to the Northern Hemisphere’s humidity plot figure, the linear equation line almost opposites to the Southern’s.

Chart, scatter chart

Description automatically generated

The r-squared is: 0.09434587200906824

Intercept: 81.12247113438596, rvalue: -0.30715773148183695, pvalue: 3.390155239217949e-07, stderr: 0.18914412938816696

Slope: -0.9900360448231624, it's a negative relationship

In Northern Hemisphere, cloud had spread/scattered between latitudes 0 to 30 degrees; there are some regions of heavy cloud too (may be heavy rainy day); there are regions have no cloud where the latitudes are between 15 to 45 degrees, beautiful sunny day.

Chart, scatter chart

Description automatically generated

The r-squared is: 0.010928193558407275

Intercept: 50.30340681073824, rvalue: 0.10453800054720425, pvalue: 0.1468874443915541, stderr: 0.2649874200475407

Slope: 0.3859545358378783, it's a positive relationship

In Southern Hemisphere, most of the regions are sunny to light cloud, few regions are cloudy and heavy cloud.

Chart, scatter chart

Description automatically generated

The r-squared is: 0.007879795725128827

Intercept: 2.9355977152661654, rvalue: 0.08876821348393144, pvalue: 0.1495685794259675, stderr: 0.012484042855144397

Slope: 0.018042987888283617, it's a positive relationship

In Northern Hemisphere, wind speed mostly is lower between latitudes 0 to 55 degrees; there are some regions in higher wind speed.

Chart, scatter chart

Description automatically generated

The r-squared is: 0.03704179891245301

Intercept: 2.1773704000162937, rvalue: -0.19246246104748066, pvalue: 0.00472132335553227, stderr: 0.013150847336185463

Slope: -0.037554672884274665, it's a negative relationship

In Southern Hemisphere, wind speed is mostly lower between latitudes 0 to -38 degrees; there are some regions in higher wind speed.