Based on the produced scatterplots relating latitude to various weather conditions (max temperature, humidity, cloudiness, etc.), the following trends were observed:

1. There appears to be an inverse relationship between latitude and max temperature, as demonstrated by the following graphics. It should be noted that this trend (based on the randomly sampled data) only appears to hold for the Northern Hemisphere, whereas the Southern Hemisphere displays a mild positive correlation between latitude and max temperature

|  |  |
| --- | --- |
| A close up of a map  Description automatically generated | Aggregated data (northern and southern hemispheres) scatterplot |
| A close up of a map  Description automatically generated | Northern hemisphere scatterplot with linear regression plotted  \*Inverse relationship apparent |
| A close up of a map  Description automatically generated | Southern hemisphere scatterplot with linear regression plotted  \*Mild positive relationship apparent |

1. There does not appear to be a discernible relationship between latitude and humidity based on the chart below. Looking at clustering in the upper right quadrant of the chart, we may be able to infer a mild positive relationship, but this is likely inconclusive.

A close up of a map

Description automatically generated

1. There does not appear to be a discernible relationship between latitude and cloudiness based on the chart below:

A screenshot of a cell phone

Description automatically generated