Analysis Report for Weather and Vacation

1. The Northern and Southern Hemispheres in opposite directions so that whenever one points its innermost toward the sun, the other aims away from the sun which we all know.

There's more landmass north of the equator and more ocean to its south. And since we know that water warms and cools more slowly than land does, we can guess that the Southern Hemisphere has a milder climate than the Northern Hemisphere.

Below is the example for it from the weatherpy

Chart, scatter chart

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1. As air **temperature** increases, air can hold more water molecules, and its relative **humidity** decreases. When **temperatures** drop, relative **humidity** increases. **Temperature** therefore directly relates to the amount of **moisture** the atmosphere can hold.

Chart, scatter chart

Description automatically generated

3. As expected, the weather becomes significantly warmer as one approaches the equator (0 Deg. Latitude). More interestingly, however, is the fact that the southern hemisphere tends to be warmer this time of year than the northern hemisphere. This may be due to the tilt of the earth at the time of the year this data was gathered.

Chart, scatter chart

Description automatically generated

These are happening because,

The seasons have nothing to do with how far the Earth is from the Sun.  If this were the case, it would be hotter in the northern hemisphere during January as opposed to July.  Instead, the seasons are caused by the Earth being tilted on its axis by an average of 23.5 degrees (Earth's tilt on its axis actually varies from near 22 degrees to 24.5 degrees).  Here's how it works.

