

Efectos del cambio climático en el planeta

I. The literature review you did to better understand the problem that you are trying to solve:

For this case, to try and understand the problem that we are trying to solve we have watched the news, newspapers online and articles that explains the situations that are happening. But also the study of the effects of that are occurring do to the events that are happening on the ocean and land.

II. A description of the problem:

The problem for this is to see the change of temperatures in the cities, states, and countries all over the world. By analyzing the temperatures that we have had over the past year.

III. The proposed solution or hypothesis of the study:

A proposed solution would be with the analysis of the temperatures globally an idea of how much one would need to reduce the carbon dioxide levels. It can help repair the ozone layer and slow the increase in the climate temperature.

IV. The data sources that you used to solve the problem and how you gathered them:

The data source are from the noaa database a kaggle page for which it already contained various data sources that one could use as: GlobalLandTemperaturesByCity, GlobalLandTemperaturesByCountry, GlobalLandTemperaturesByMajorCity, GlobalLandTemperaturesByState, GlobalTemperatures.

V. A description of the methods used to solve the problem:

Methods that were used to solve the problem were analyzing the temperatures of all the files in a graph to see how each of them is represented and the changes in each area and globally. Also one calculated the correlation between datas to see if there is a big difference or not.

VI. The results from your study:

The results from the study one could say that almost all in general don't have correlation but in the case of the global data there are correlations between the temperature of the land and the ocean which is 0.9880656 and between the max and min there is 0.9934037. And the case when one compares all of the datas from the Cities, Countries, Major cities and States by looking at their graph it is almost the same because there is more in the middle but between all of the graphs. Which is normal considering that they were comparing almost the same but on larger scales. In the case of the global temperatures there is shown that where there is a great rise in the temperature is in the ocean compared to the lands. And that could be a problem because most of the planet is covered in water.

But because of that in the case of the max and min datas in the land is almost the same in their distribution of data. Knowing that in the case of the countries in each the rise of temperatures is different because of their locations or their efforts in reducing their carbon footprint, those countries that have high temperatures should follow the examples from those countries whose temperatures are rising less. In the case of the major cities it is the same case as the countries but here there are only 8 out of 49 that are high which one could say is a bit great. But all of this datas are the ones that were officially stored from the year 1743 to the year 2019. Which is one of the most complete datas that one could find.

Reference:

<https://www.kaggle.com/berkeleyearth/climate-change-earth-surface-temperature-data>

<https://www.un.org/en/climatechange/what-is-climate-change>

https://wild.org/climate/?gclid=Cj0KCQiAqvaNBhDLARIsAH1Pq50AhhEVIhPYBQmw2qt_dHP8p2JGqP3hJjDbr-CkKmv3WWDAQ0FeG5LkaApigEALw_wcB

https://rare.org/program/climate/?gclid=Cj0KCQiAqvaNBhDLARIsAH1Pq507IcSr_Pxbxtp_8vtJK5Z_kyrVESgKvILt6JyKgdKH5WJuyQiyB6mAaAlKaEALw_wcB