**Project Title**

"The Progression of Global Climate Change”

**Team Members (Team Name = JAST)**

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**Project Description/Outline**

Global warming is a prevalent phenomenon that is affecting all the inhabitants of planet Earth. We are looking to find any possible correlations with the planet’s current environmental state as a result to global warming.

**Research Questions to Answer**

* What effects does global warming have on the world?
  + Global air and land temperatures
  + Sea surface temperatures
  + Carbon Dioxide levels
  + Ice Caps volume
  + Rise of sea levels
* To what extent do these factors impact the planet?
* How does population density affect the environment?

**Rough Breakdown of Tasks**

* Time series on Land Surface air temperatures / Global mean temperature change

Data sets: <https://climate.nasa.gov/vital-signs/global-temperature/>

* Time series on Sea Surface temperatures / Global mean temperature change

Data sets: <http://berkeleyearth.lbl.gov/auto/Global/Land_and_Ocean_complete.txt>

* Time series on carbon dioxide.

Data sets: <https://climate.nasa.gov/vital-signs/carbon-dioxide/>

<https://datahub.io/core/co2-fossil-global#python>

<http://cdiac.ess-dive.lbl.gov/trends/emis/tre_coun.html>

* Antarctica, Greenland and Arctic Sea Ice mass variation over time.

Data sets: <ftp://podaac.jpl.nasa.gov/allData/tellus/L3/mascon/RL05/JPL/CRI/mass_variability_time_series/>

<https://climate.nasa.gov/vital-signs/arctic-sea-ice/>

* Time series of Global Capture Production

Data set: <http://www.fao.org/fishery/statistics/global-capture-production/en>

* Time series on Sea level

<https://climate.nasa.gov/vital-signs/sea-level/>

* Air temperatures vs. population density.  
  Data set: <https://data.world/data-society/global-climate-change-data/workspace/project-summary>
* Air quality vs. population density.

Data set: Air\_Quality\_Measures\_on\_the\_National\_Environmental\_Health\_Tracking\_Network.csv – <https://catalog.data.gov/dataset/air-quality-measures-on-the-national-environmental-health-tracking-network>