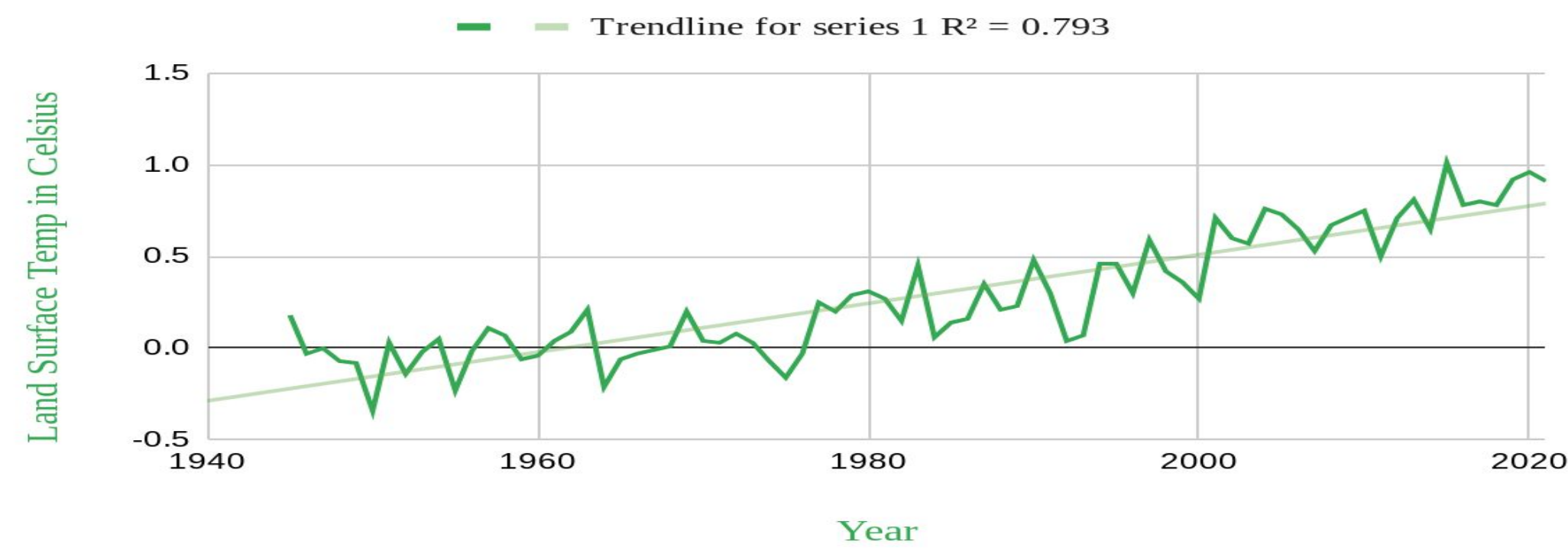


Climate Change is Occurring Rapidly

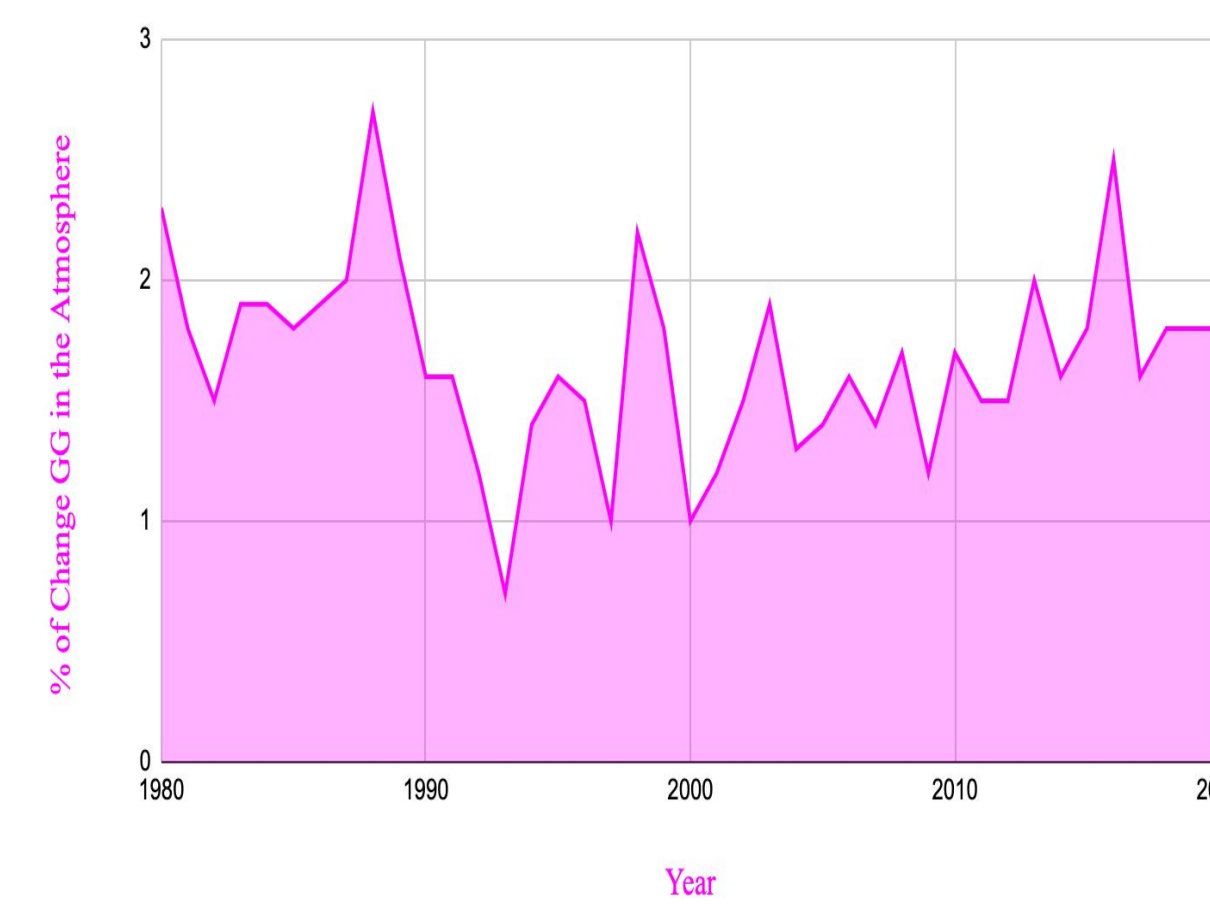
Land Surface Temp in Celsius vs. Year



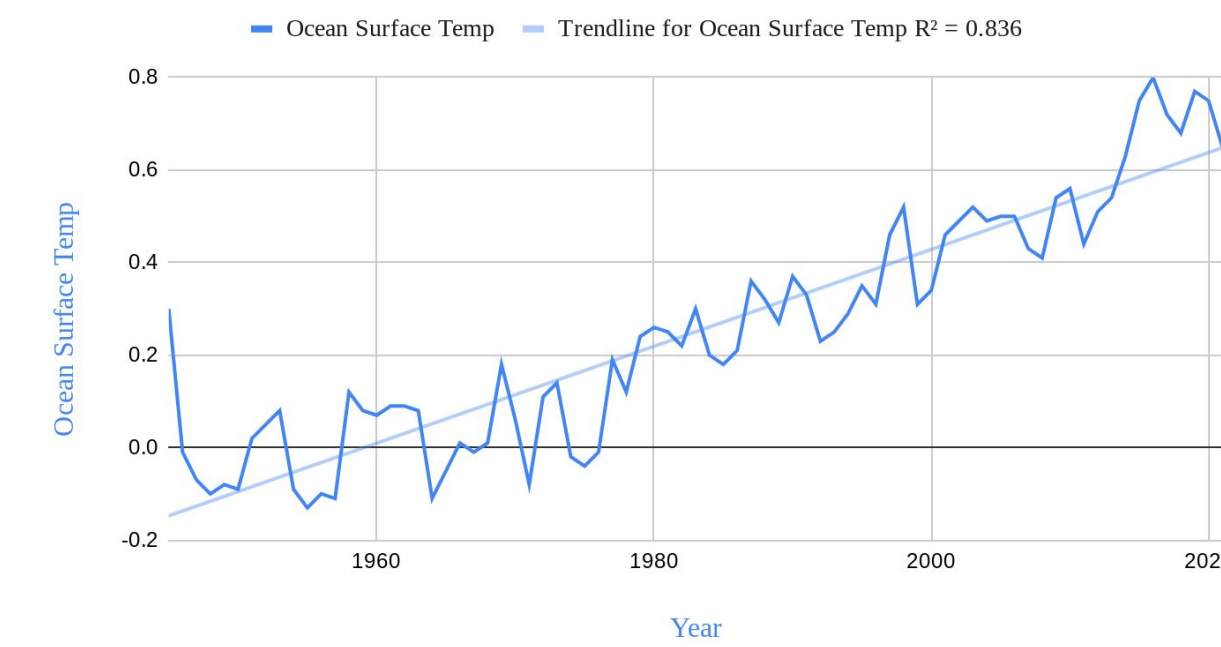
This chart shows as the year goes on, the land surface temperature increases. This illustrates that in recent years the surface temperature has gotten hotter. This is a result of global warming. This exemplifies how the Earth is getting warmer in recent years. The R-value is 0.891, meaning that there is a very strong positive and linear relationship between the surface temperature of land and the year. Climate change is due to global warming and the disturbance of temperature.

The percent of change in the amount of greenhouse gasses in our atmosphere is different for each year. The changes are not in a cyclic pattern but there are many years in a row where the percent of greenhouse gasses in our atmosphere is going down and opposite of that, going up. When the percent of change in the amount of greenhouse gasses in our atmosphere is going down that means that there is less carbon dioxide, natural gas, ect going into the atmosphere.

Percent of Change of Greenhouse Gasses in the Atmosphere vs. Year

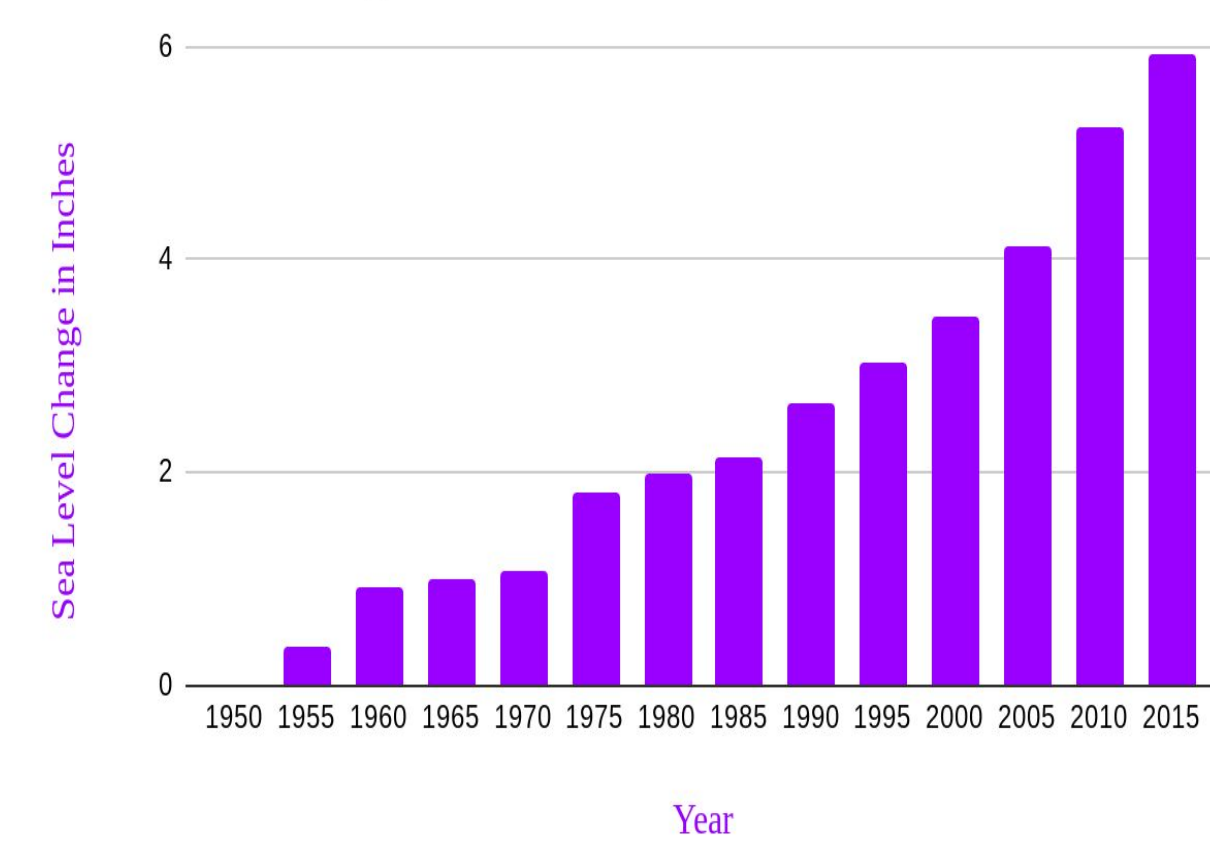


Ocean Surface Temp vs. Year



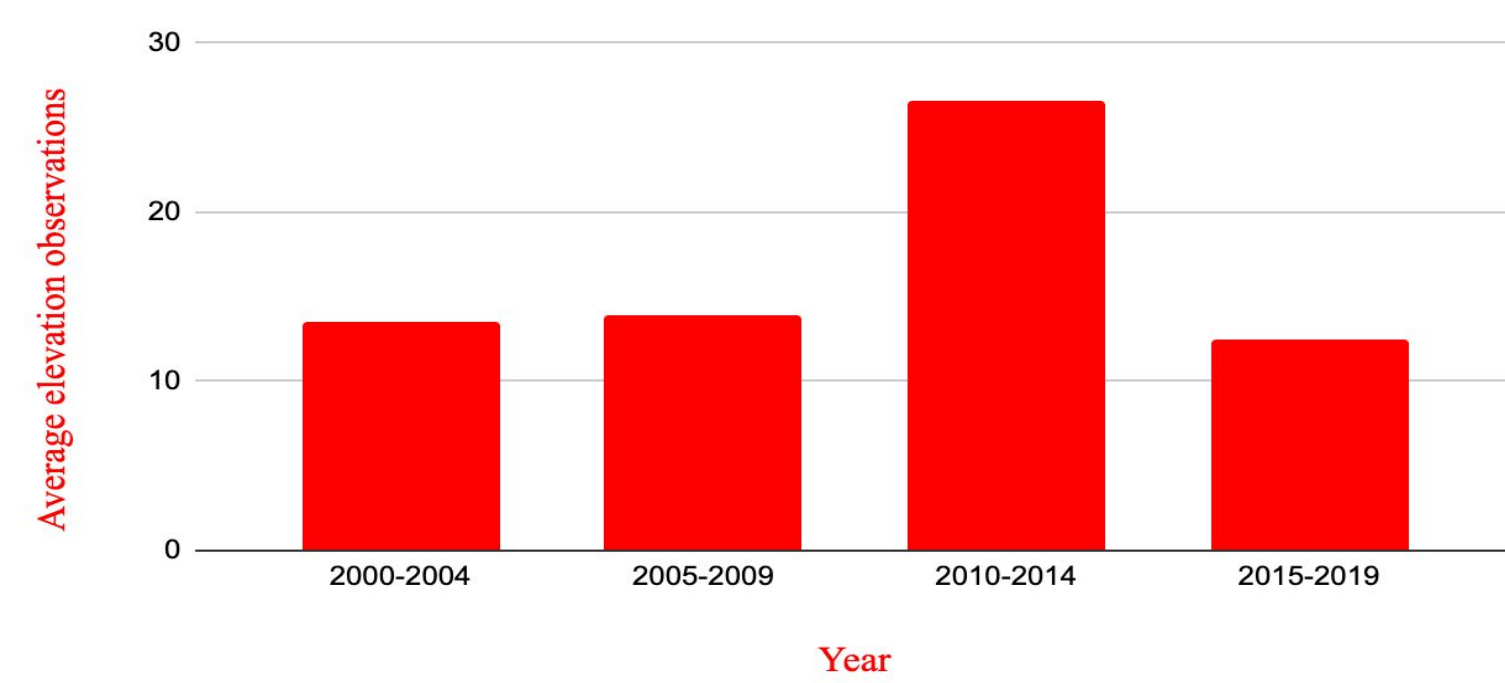
This chart is showing the correlation between the years and the ocean surface temperature. As you see in the chart the change in ocean surface temperature is not a constant increase but overall increases with time. The reason it increases is because of global warming. In 1950 the ocean surface temperature had a dramatic decrease but overtime had an increase from about -0.2 degrees to just over 0.6 degrees. This shows how the climate is changing especially over the last 40 years.

Sea Level Change in Inches vs. Year



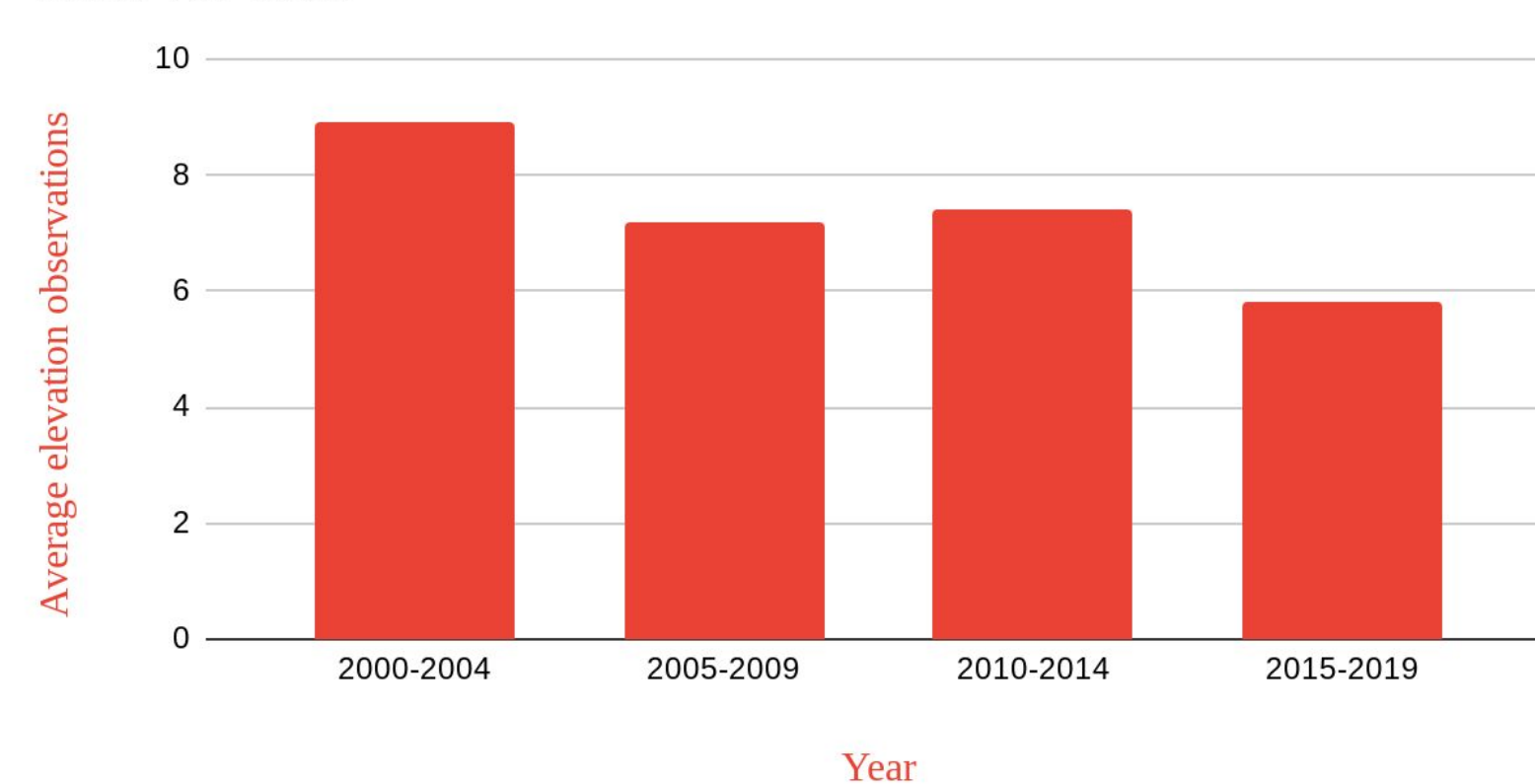
This graph demonstrates an increase of sea level in recent years. It is occurring at a more rapid rate. In 1950, sea level was at 0 inches of change, then in 2015 it was nearing 6 inches of change. That is approximately a 6 inch difference in just 65 years. There is a positive correlation between sea level change and it continues to rise. Sea level rise is a result of melting glaciers, therefore revealing warming of the Earth, again proving that climate change is occurring.

Average elevation observations per pixel (%) in Iceland vs. Year

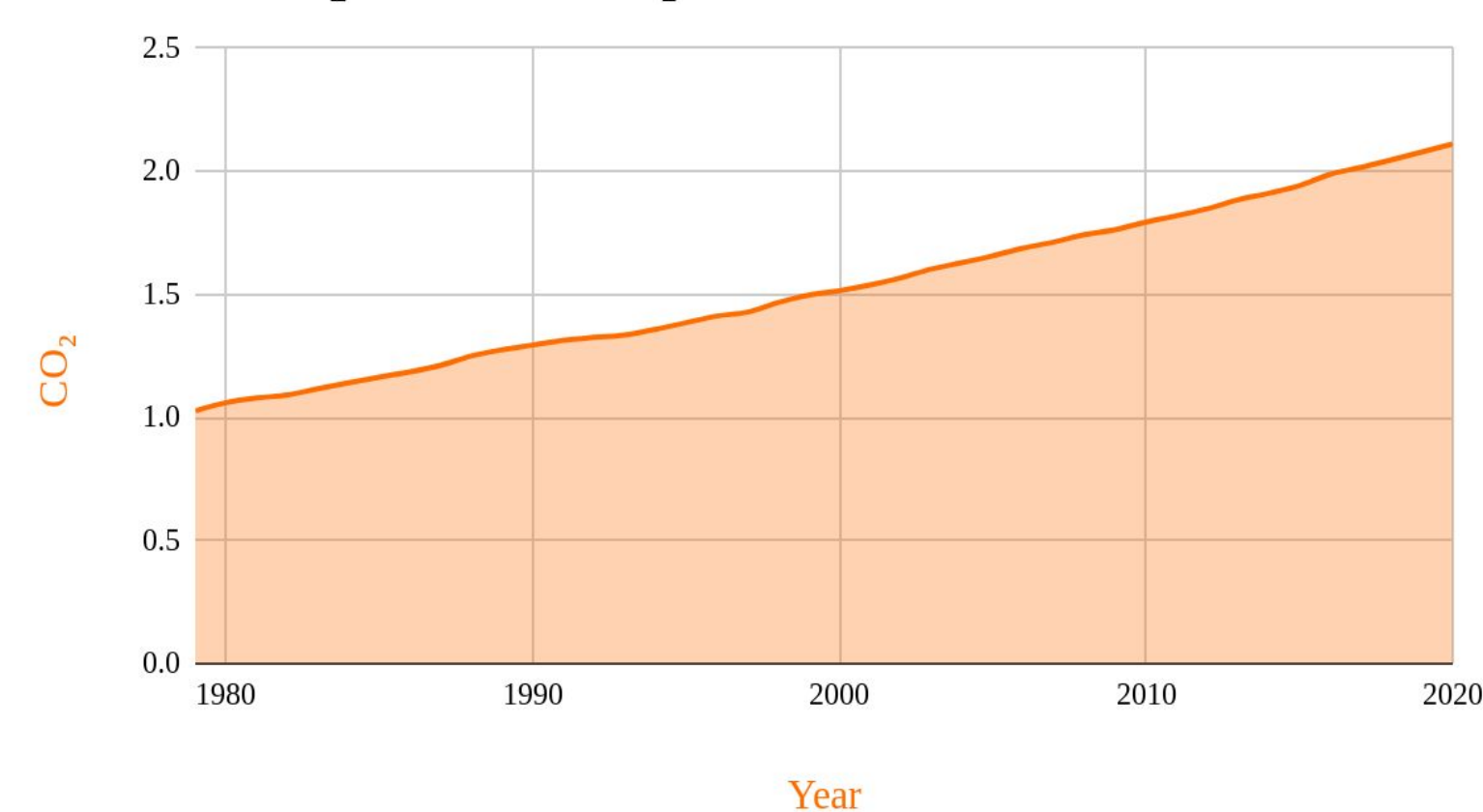


These graphs show how there is a general decrease in recent years in average glacier elevation. In the Middle East, there was a small decrease in elevation per group of year. In Iceland, there was stability, then there was a decrease in glacier elevation. This decrease of elevation shows that the glaciers are melting. If the globe is being warmed, then the glaciers melt as a result. Again, climate change is a result of global warming, proving that climate change is occurring at a more rapid rate.

Average elevation observations per pixel (%) in the Middle East vs. Year



Year vs. CO₂ in the atmosphere



This graph is conveying the rise of CO₂ in the atmosphere through the course of time. In 1979 the amount of carbon dioxide in the atmosphere was about 1% and over the course of 41 years the amount of carbon dioxide in the atmosphere grew to just over 2%. CO₂ assimilates into the atmosphere because it is a fossil fuel. We use fossil fuels for so many things. We burn them for electricity, to drive our cars, ect. If we do not use alternative ways of electricity, and continue to burn fossil fuels, CO₂ in the atmosphere will continue to build up and the earth will continue to warm.