



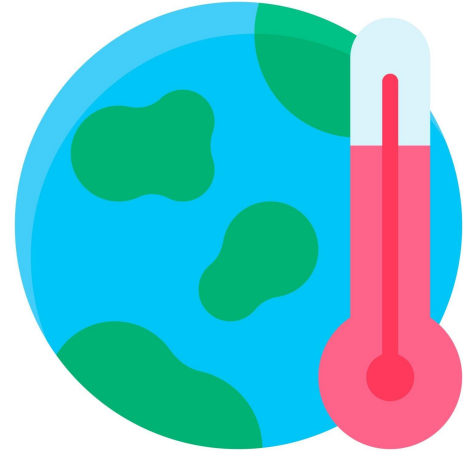
The Current Issue with Climate Change

By: Hyein Ah | YCB Civics Fair



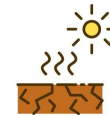
So what is The Current Issue with Climate Change

- Climate Change is the shift in the average weather patterns.
- This phenomenon happens because of certain factors like carbon heating up the atmosphere.
- The temperature has risen 2 fahrenheit since the the pre-industrial times.
- Too much carbon is being released because of human activity.
- Habitats for the animals are being destroyed
- Ice is melting



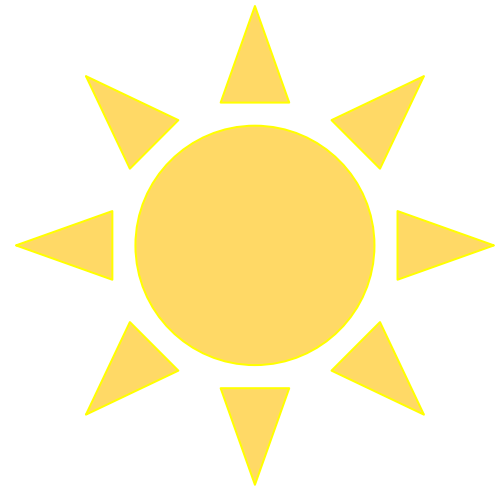
Why is Climate Change Important?

- Mention local trends maybe why it's important to this day
- Climate Change is important because we get our resources from the earth. And if we lose those resources, it is very likely that most humans will not be able to get their needs as you are able to today.
- Sea levels rising: the arctic ice has melted 30~40% since the 1980s. This could cause us to be more cramped.
- Animal habitats: if animals lose their home, they will most likely die. If this continues, they will become extinct.



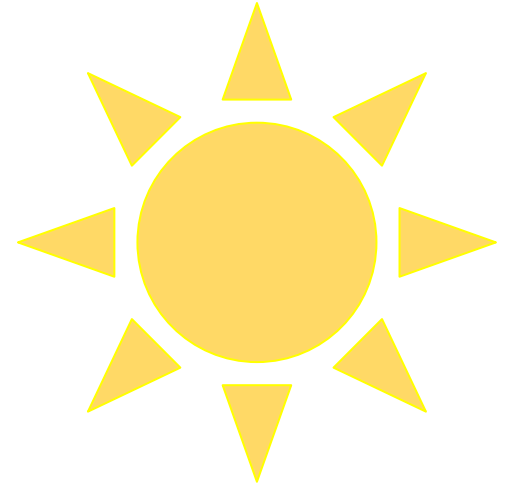
The history of Climate Change

- 1824-96: A few scientists talking about the climate.
- 1938: First measured warming signal
- 1979: the First World Conference And Charney Report- this meeting recognizes that CO₂ is a serious long term problem. The World Climate Programme is established. The Charney Report says that doubling CO₂ will end us up in raising the temperature 3 Celsius higher
- 1988: the IPCC founded by the UN is created (The Intergovernmental Panel on Climate Change; they asses the climate and inform



The history of Climate Change (pt.2)

- 1992: the UN Framework Convention on Climate Change
- 1997: the Kyoto Protocol
 - The first legally binding treaty that requires developed countries to cut emissions. It went into force in 2005
- 2015: the Paris Agreement (196 nations adopted this agreement to aim to limit to under 2 Celcius. Each nation sets their climate plans and strengthens the every 5 years).



Why does Climate Change happen?

Human Caused

- Burning Fossil Fuels
- Deforestation
- Agriculture
- Waste Decompositions

Natural Factors

- Volcanic Eruptions
- Change In Orbital
- Ocean Currents El Nino/ La Nina

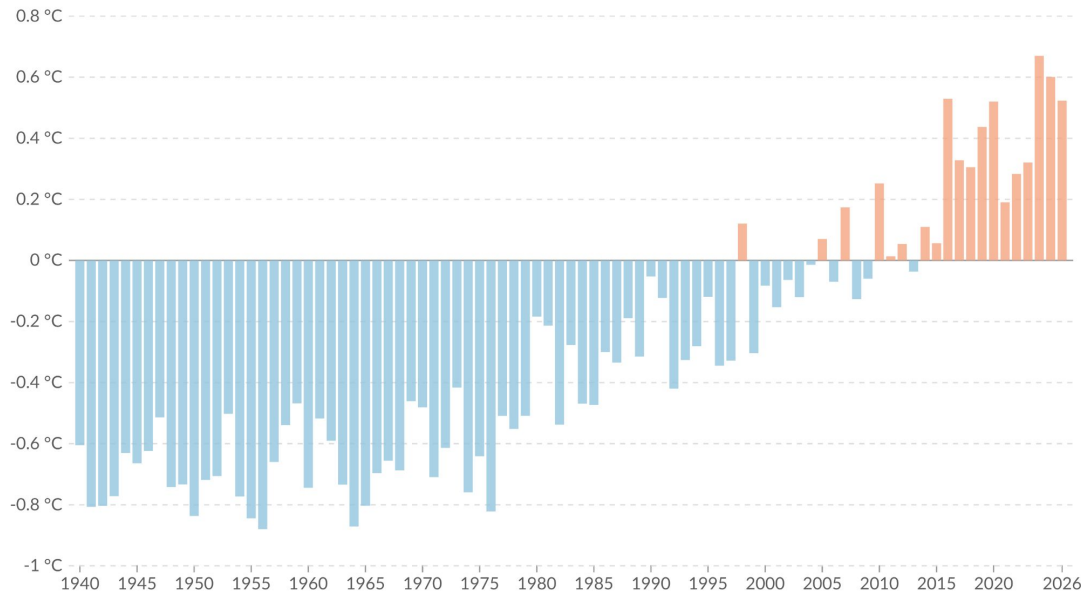


What does the data say?

Global temperature anomalies by month April

The difference between a month's average surface temperature from the mean temperature of the same month during the period 1991-2020, measured in degrees Celsius.

Our World
in Data



Data source: Contains modified Copernicus Climate Change Service information (2026)

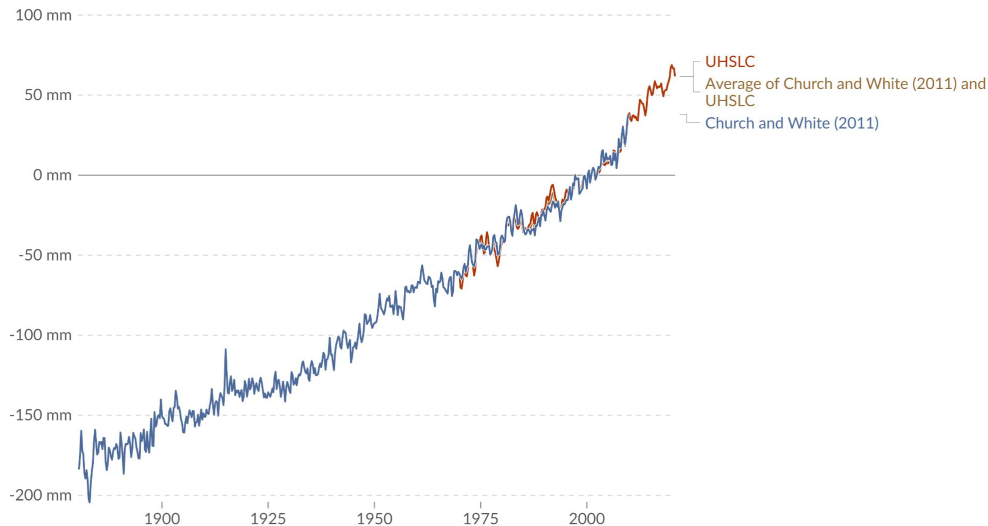
OurWorldinData.org/climate-change | CC BY

- Our World in Data - Copernicus Climate Change Service Information
- Average temperature anomaly per month
 - Anomaly - difference between the expected temperature and the actual temperature
- The graph shows that temperature anomalies are increasing now → temperatures are getting higher and higher.

Data - Sea Levels

Sea level rise

Global mean sea level rise is measured relative to the 1993 - 2008 average sea level. This is shown as three series: the widely-cited Church & White dataset; the University of Hawaii Sea Level Center (UHSLC); and the average of the two.



Data source: NOAA Climate.gov (2022)

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- Our World in Data - NOAA Climate.gov
- Global mean of sea level rise relative to 1993-2008 average.
- Right now, we're going above that baseline but before then, we were under → sea levels are consistently rising.
- Sea Levels rising is bad because there's less land → higher density of population.

What is being done now?

- The Paris Agreement (as mentioned before) was adopted by 195 countries and the European Union. It was adopted in December 12, 2015 and went in force in November 4, 2016
- Major companies like Apple and Amazon are using big amounts of renewable energy
- UN showed the blueprint to the public about the plan to use clean energy (energy that will lower the amount of carbon being sent to the atmosphere) and end fossil fuel government policies that encourages the use of fossil fuels.



Steps for the future

- We can help non-profit programs that help the climate. We can also help by caring about our trash and our use of water and electricity.
- This year at least 35,000 of people died due to a severe heat. If this keep going on, we will have much bigger number of deaths than we did this year.
- Governments should put a price on carbon. For example, like carbon tax to make polluting more expensive and clean energy more cheaper to appeal to people
- Stopping deforestation. Trees take carbon to get energy and release oxygen providing us with the clean air we live with today. And cutting down trees releases carbon.



Thank you for listening!