

Ethan Mau
Oct 25, 2020
ENG 1121
Word Count: 1451

U2 Annotated Bibliography

Developing Countries slowly start using more and more resources over time. As the population technologically advances the community gradually begins to progressively exhaust all the resources in the immediate area. Early on in the gradual technological advancements, the methods being used severely impact the environment and the people around as viewed throughout history. In all of the instances where technology advances, the rich are corrupt and take 90% of the profit while also heavily infecting the environment. This is the cycle of how the rich get richer and the poor get poorer, but in the background was the beginnings of how climate change got so problematic. Slowly as more and more heat trapping greenhouse gasses got released into the atmosphere climate scientists and NASA started taking notice. Overtime NASA became the leading research center for climate change in the US. NASA is now attempting to educate as many individuals as possible, and hopefully one of these individuals has the money to make an impactful decision to reduce the amount of greenhouse gasses being released into the atmosphere.

Citation: "Climate Change: Vital Signs of the Planet." NASA, NASA, climate.nasa.gov/.

Summary: This is the generic and most viable resource for finding the latest and most accurate updates on the effects of climate change and if it measures up to simulations of the same event. Reports show that current events are accelerating past the simulation expectations. It also displays the vital signs of climate change to be wary towards. This includes Carbon Dioxide measurements, average Global Temperature, Arctic Sea Ice minimum, Ice Sheet levels, and Sea Levels. All of these according to the website are considerable things to keep an eye on when looking for evidence of severe climate change because each of them have a strong correlation to the amount of heat trapping greenhouse gasses in the atmosphere.

Reflection: The information found on this website is insanely invaluable. NASA is a government funded organization that gets yearly reduced funds, and even with the funds being reduced every year they still find a way to get all this invaluable to the public, as well as making it 100% free and completely accessible. Learning that human activity is the main cause of climate change due to the unregulated global market. This can be linked back to my explanation in the introduction where corrupt individuals who take advantage of emerging economies. There are no regulations written into the region so they can release as much harmful gases into the atmosphere as they want. Humans tend to take the path of least resistance, and if the least resistance is where there are no regulations limiting the methods of which they make money then that would be the obvious choice.

Quotation: :(evidence page) "The current warming trend is of particular significance because most of it is extremely likely (greater than 95% probability) to be the result of human activity since the mid-20th century and proceeding at a rate that is unprecedented over decades to millennia"

Citation: "Climate Change Impacts." *Climate Change Impacts* | National Oceanic and Atmospheric Administration,

www.noaa.gov/education/resource-collections/climate/climate-change-impacts?fbclid=IwAR3ok u3Wj-twyxSjrHbvsoy4EPPNQOKigD6c308DvQW0QOEPCrAkeKtleXk.

Summary: The sentiment that climate change will impact the future is not entirely incorrect. But ultimately if changes are not implemented today, it would already be too late. The effects of climate change are extremely impactful to all of in-land life. The rising sea levels would destroy coastal cities, and there are many coastal cities that are considered global economic hubs. The human food supplies are indirectly controlled by the water industry, as well as the clean water pipeline that the city government controls. Each of the main human survival pipelines would get heavily impacted. From the food industry struggling more through having more limited resources because the water industry is now out of control, as well as weather and climate forcing farmers and other food industry individuals to move to more habitable places. More extreme droughts, as well as more extreme floods. The shifting climate would also impact the environment and the ecosystems in it. Habitats that have an extremely set seasonal schedule would be completely thrown out of cycle.

Reflection: This only continues to prove that climate change is as inevitable as we make it. Personally I believe that it is already too late, and instead of focusing on completely preventing climate change (because this is impossible already) we must focus on damage control. Damage control being, preventing even more giant ice sheets from melting, preventing even higher global average temperatures, etc. We are at the point where the majority of these problems will occur and there is little we can do to prevent it. We should focus on preventing even more damage from being done. One of the other major industries I feel climate change could affect is the global economy. If we don't spend an absurd amount of money today, we are going to have to spend even more money in the future. People can not simply imagine the life changing effects that climate change would cause, from displacement to the entire destruction of ecosystems.

Quote: "Things that we depend upon and value — water, energy, transportation, wildlife, agriculture, ecosystems, and human health — are experiencing the effects of a changing climate."

Citation: Baehr, Leslie. "22 Devastating Effects Of Climate Change." *Business Insider*, Business Insider, 11 June 2014,

www.businessinsider.com/effects-of-climate-change-2014-6?fbclid=IwAR2oz4jY8MdhdzrAbPar6CpmJHKC2G18wHkuw2VVKOCJoJjCBzg9Pmgxz7U.

Summary: Many of the already alarming statistics would become drastically many times worse. Some of which are already stated in the previous articles such as disease becoming a more common thing, and the economic catastrophe that this could cause. But some more specific statistics were brought in this article. An example would be how a team of scientists calculated that an additional 8% of the world population would enter a "water scarcity" state. Another alarming statistic from the National Climate Assessment found that hurricanes have been increasing in frequency, intensity, and duration since the 1980s, and this has been linked

to being caused by climate change. This is because due to climate change essentially warming the ocean slowly but effectively, warmer waters make great fuel for hurricanes. Hurricanes tend to be self-limiting, size, and duration being estimated during the creation of the hurricane itself. But due to the warmer waters, it helps hurricanes gain higher intensities, higher frequencies, and longer durations. Another alarming statistic from Malcolm Bowman, and oceanography professor at StonyBrook, warned that four times as many New Yorkers could live in areas that flood by 2050. This is the perfect example of how coastal cities are at extreme risk, which would cause a domino effect on the rest of the global community. Coastal cities make up a majority of the world's most influential economic hotspots. Hong Kong, New York City, California, UK. Seoul, all of these places are coastal cities that are major economic hotspots for the global community, and all of these cities would be heavily affected by climate change. Effectively "neutering" the world economy and flipping everything upside down.

Reflection: I feel finding evidence on supporting climate change is easy, as I have found more than enough supporting evidence. I am afraid that I have some research bias. This is because I already know the answer I am looking for when researching this topic, so I notice I would gravitate more towards answers that support the idea I am looking for. I would like to see what proofs that climate change non-believers have. As trusted networks such as NASA, business insider, NOAA, etc. These are either government-funded companies or well-vetted sources that are all claiming that climate change is real and is happening now. I want to see how people reach the conclusion of climate change being a hoax, and how this would benefit the "higher-order"

Quote: "Major negative effects of climate change are here now and they're only getting worse, as shown by recent reports from the United Nations Intergovernmental Panel on Climate Change (IPCC) and the White House among others."

Climate Change is happening now and it is already too late. Humans tend to take the path of least resistance, and in terms of climate change, releasing an absurd amount of greenhouse gases into the atmosphere for the concept of exponential profit is the easiest route. It takes generations of working with a certain technology to find a safer more environmentally friendly version of it. This can be seen with the example of electricity. Only in 2020, an entire century and more after the industrial revolution do we find a more environmentally friendly version that is equally as sustainable, which would be solar energy.