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Rhetoric 102 – Principles of Research

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Working Thesis: Humanity is at risk for complete extinction if the world does not do anything regarding climate change. Climate Change not only affects us humans, but the earth's atmosphere and environment as well. Climate change affects areas in human health, weather, agriculture, and the overall economy.

Global Warming: The Beginning of the End

An Annotated Bibliography

Anderson, Thomas R., Ed Hawkins, and Philip D. Jones. "CO₂, The Greenhouse Effect and Global Warming: From The Pioneering Work of Arrhenius and Callendar to Today's Earth System Models." *Endeavour* 40.3 (2016): 178-187. Academic Search Complete. Web. 20 Feb. 2017.

This article goes over the components that are leading towards global warming. This article explains how the United Nations have agreed on a plan to reduce the emissions of CO₂ and other green house gases in order to limit the global temperature from increasing. Greenhouse Gases are necessary for the survival of humankind. The energy that the earth radiates back to space is partially absorbed by the greenhouse gases in order to keep the planet

warm. Without these gases the planet's average temperature would plummet to a bitter cold - 21 degrees Celsius.

This article is a reliable source because this article was put through the peer review process, meaning all the information that is given throughout the article is valid and creditable. In addition, the authors; Thomas R. Anderson, Ed Hawkins, and Philip D. Jones, all hold degrees in Atmospheric and Oceanic Sciences. They have the knowledge and creditability to talk about the issue. This particular issue was released on September 2016, giving us the latest information regarding the causes of global warming. I will use this article to educate the audience on how global warming works and what are the reasons making it worse as the years go on.

Banholzer, Sandra, James Kossin, and Simon Donner. The Impact of Climate Change on Natural Disasters. Spring Netherlands. 21-49. 2014.

This academic book explains and goes over the effects of climate change on weather systems around the world. Observations ranging back all the way from 1950, shows an increase in extreme weather events occurring around the world. Programs like the SREX and IPCC predicts that there will be further increases in extreme weather events during the 21st century. In addition, heavy precipitation amounts are also on the rise, leading to more frequent floods and landslides around the world. Floods are the deadliest natural disaster on the face of this planet.

This book was published under the company "Spring Netherlands." This book was also put through a peer review process. This book is a reliable source because of the following reasons. This source will be used to inform the audience of the effects of global warming on natural

disasters around the world. The authors of this book all have a Master's Degree from top institutions around the world.

"Benefits of Renewable Energy Use." Union of Concerned Scientists Science for A Healthy Planet and Safer World. 8 April 2013.

This source talks about renewable energy in the forms of wind, solar, geothermal, hydroelectric, and biomass. These different forms of renewable energy provide many benefits for our climate, economy, and our health. Renewable energy produces little to no greenhouse gas emissions compared to the burning of fossil fuels, gas-fire power plants, and coal-fired power plants, which produce roughly 25 percent of all US greenhouse gases in the atmosphere. With less greenhouse gases being put into the atmosphere, it also offers health benefits as well. Air pollution is linked to a numerous amount of health issues such as, breathing problems, cancer, and neurological damage. With renewable energy, studies have found that it could reduce overall healthcare costs. These renewable energy sources in addition do not pollute water resources which are necessary for agriculture and other important water needs.

This source is considered reliable because the source provides many in text citations, providing the audience information as to where the author is retrieving the information. After further research, majority of the sources used from this article are coming from other peer reviewed academic journals, which provide and valid and trustworthy information. The publisher of this article was founded by a group of scientists and students from Massachusetts Institute of Technology. The company writes articles regarding climate change and global warming. I will use this source to close my paper off and explain why the world should consider

renewable energy to cut the global emissions of greenhouse gases in order to stop global warming from getting any worse and causing more catastrophe to all of human kind.

Hein, James Everett, and J. Craig Jenkins. "Why Does the United States Lack a Global Warming Policy? The Corporate Inner Circle Versus Public Interest Sector Elites." *Environmental Politics* 26.1 (2017): 97-117. Academic Search Complete. Web. 20 Feb. 2017.

This academic journal goes over how the inner circle corporations in the United States have gone against policies regarding global warming. The United Nations created the group "Intergovernmental Panel on Climate Change" (IPCC) in 1988. This group evaluate the climate science in order to make policy recommendations regarding it. In response to this, a coalition of corporations, most of which were fossil fuel energy and automobile companies, formed the Global Climate Coalition (GCC) to go against the claims of the IPCC. This was to regulate any greenhouse gas emissions that could potentially impact their companies. Companies like DuPont and BP decided to pull out of the GCC and endorsed legislation to go against global warming.

This scientific article was published in the year of 2016, so this article is providing some of the latest information. In addition this article was published under the company Environmental Politics which writes articles regarding environmental science in politics. I will use this article in order to inform the audience on why the US have no policies to go against the worsening of global warming.

John W. Farley, "The Scientific Case for Modern Anthropogenic Global Warming" *Monthly Review*, vol. 60, July/August 2008, pp. 69-75

This source goes over how the increase in CO₂ in the atmosphere is contributing to global warming. According to John Farley, CO₂ gases in the atmosphere have been increasing in the atmosphere since the Industrial Revolution. This is all due to the burning of fossil fuels and deforestation going around the world. With an increase in CO₂ the greenhouse effect is enhanced. Furthermore, when CO₂ reaches twice the pre-industrial level, the greenhouse effect would warm the earth by 1.2 to 1.3 degrees Celsius.

This source was written by John W. Farley who is a physics professor at the University of Nevada Las Vegas. Farley received his PhD in physics from Columbia University in 1977. Although this article was not gone through the peer review process, John Farley still has the education and knowledge to talk about the contributions of carbon dioxide and the affect on global warming. I will use this source in order to further explain how the greenhouse effect is getting worse causing global warming to intensify in the coming years.

Maslin, Mark. "Global Warming: Causes, Effects, and the Future." MBI Publishing Company LLC and Voyageur Press. 2007.

The book talks about the different aspects of global warming. Global warming has been on the rise since the Industrial Revolution back in the 1900's. This book also examines the devastating effects it will have on human society, the earth's environment, and the world's economy. The book also provides numerous amount of evidence that climate change is indeed happening and the world needs to do something about it.

This source was found at a local library here at the University of Illinois. The book is considered reliable because the source uses data, and studies from scientists from all around the world studying climate change. In addition, the book provides immense amounts of charts

and graphs to give the audience a better understanding of the data they are presenting. In addition, a good portion of the data used in this book is coming from the group IPCC who are a well known group of scientists from around the world who study the earth's climatology to present to the world leaders around the world. I will use this book to provide the audience data and statistics regarding global warming and how it will affect the world economy, and a bit of its history.

Rossati, Antonella. "Global Warming and Its Health Impact." *International Journal of Occupational & Environmental Medicine* 8.1 (2017): 7-20. *Academic Search Complete*. Web. 19 Feb. 2017.

This article goes over the infectious disease outbreaks that are associated with the extreme weather events going on around the world. Global warming is affecting the water heating process, leading to the rise in transmission in water born pathogens. These pathogens are sensitive to climate change. Diseases like malaria and other diseases that are transmitted through mosquitoes will increase due to the pathogens long life cycles caused by the water heating due to global warming.

This source was published under the International Journal of Occupational & Environmental Science. This academic journal was gone through a peer review process, providing the most accurate and valid information. The journal was published in January of 2010, also providing some of the latest information that is out there regarding global warming. With these things in mind, this academic journal is credible to be used as a source for this research paper. I will use this source in order to provide the audience information about the effects of global warming on human health around the world.

Worland, Justin. "Climate Change Could Wreck the Global Economy." *TIME Magazine*. 22, October 2015.

Studies have found that climate change has the potential to ruin the global economy in the near future if humanity doesn't do anything to stop the emission of greenhouse gases in to the atmosphere. A study published under the journal *Nature* have found that climate change will lower down the GDP capita 23 percent lower by the year 2100 here in the United States. In other words, the United States is essentially just throwing away money without stating the issue that climate change is getting worse as the years goes on. According to a Citigroup report, if the world can minimize the temperature rise down to 2.7 degrees Fahrenheit from 8.1 degrees Fahrenheit than the global GDP can save \$50 trillion dollars in the coming decade.

This source was found on the web under Time Magazine's website. Although this article was not found under the University of Illinois database, this source is still considered reliable. The source uses both academic journals and studies the back up its claim, while also providing the audience links to these sources. In addition, the author of this article, Justin Worland, is a New York based writer for TIME who covers topics in energy and environment, meaning he has the credibility to talk about these key issues. I will use this article in order to inform the audience about the affects of climate change on the overall global economy if the world doesn't take the time to identify the issue in the near future.