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# **Global Warming - The Last Warning from Planet Earth**

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#### ABSTRACT

Global warming is not a new term to any person now, the changing climate which unfolds both its consequences on weather patterns of Earth and human actions causing heating and melting of fossil fuels and glaciers. Though the present form of climate changes are very vigilant and catastrophic as compared to the last historic periods of climatic variations recorded.

Keywords: Climate changes, weather, temperature, global effect, adaptations, green ice lands melting.

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#### INTRODUCTION

With the release of carbon dioxide and methane as the main greenhouse gases along with the use of energy for any sort of work resulting in combustion of fossil fuels like steel manufacturing, cement production, agriculture causes a lot of these gaseous emissions [1,2]. Another definitions says that long lasting natural changes in weather and temperature patterns accounted since 1800s, with more human interventions of coal, gas and oil usage which at last result in heat trapping gases. All these phenomena in return creates loss of sunlight-reflecting and snow cover melting [3], more emissions of carbon dioxide from forests which are now drought struck; are together global warming [4] increase at a higher rate.

## FACTS AND FIGURES SHOWING THE CAUSE OF WARMING

Many new figures and data's are added every hour recording the changes rendering continuously in our surrounding. The present level of warming is already witnessing around 2°F which is 2°C. If the heating effects continues to be at a rate of 1.5 °C and above the statement of IPCC4 which is the Intergovernmental Panel on Climate Change will not wait to be declared as truth that " much of these adverse effects are already been realized". The more the warming effect more is the risk of igniting the tipping points which are the melting points of Greenland ice sheet [5] can only be recovered and stopped if we can serious in charge of these warming effect and monitor them and bringing them to a minimum as well as a maintainable point[6], then only humankind can come out of it as victorious. The below satellite edited image depicts the condition change in average climatic temperature in round the last 50 years.

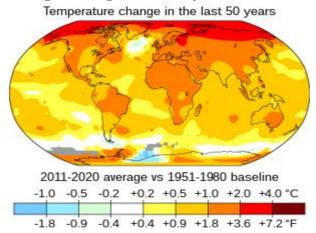


Figure 1. Change in average climatic temperature in round the last 50 years

### MEASURES FOR MONITORING THE WARNING

Still standing on the face of end of the melting ice sheets wont work anymore unless we universally work on eliminating the emissions of greenhouse gases and mitigating them directing from the environment [7]. Widening the use of electric vehicles, massive unfolding of energy efficiency [8], excessive use of wind and solar energy, including mandatory use of heat pumps in homes and commercial buildings, cutting out of dependency of coal and fossil fuels will reduce the emissions even more [9]. Also we should never forget the long run solution of planting more and more trees and removing deforestation from its roots will lead us to a long lasting solution of our all problems and thus improving the absorption rate of Carbon dioxide [10]. Even though with the help of some expert tribal communities who are adaptable to the coastline protection and disaster management programs[11] being managed through and trained by the governmental officials. In a permanent promise to receive a universal nod in these efforts, we have to take a step ahead of tall the calculated risk involved. Further undertaking the unpredicted risk of future impossibilities leading to projects still undone which may increase the enlarging gaps in atmospheric (Greenland) and oceanic (Antarctica) forcing. With the help of mitigation efforts, collectively under the Paris Agreement [12] in 2015, many nations came forward in helping keeping the warming well marked below 2 °C. Thereby, eliminating the worse effects of heat and drought at a large scale, decreasing heating and ocean acidification by stopping bleaching of coal, non stop droughts forcing to stop the water supplies and adopting other alternative measures. Agreement further declared a vow till century's end to make the global warming stand at a point of 2.7 °C and acquiring net zero emission [13] till 2050 only by almost reducing the warming to half till 2030.

### **ADJUSTMENT OR ADAPTIONS?**

With all the troubles and changes done by humans leading to almost extinction of almost every precious thing on earth. Now, through various agreements and treaties, councils are facing cameras and sitting to resolve the big bad deeds accumulated so far. So, now the question arises how and till what extend. Nature it self is its healer and destroyer but when humans fails nature comes out always with the best solution. Even growing iron from green plantation is the latest technological development and a no less than miracle to human kind.

Reverting back to old age methods of dealing with natural hazards which includes increase in the level of sea water so avoid living at those risk prone areas, or learning to live with care and protection for wild animals if reaching human habitats unknowingly. Ever increasing heat effects are resulting in huge economic downfalls and inflation. More positive solution for sustainable agriculture include controlling of erosion, genetic improvements for tolerating the challenging changes in climate, switching to a sustainable diet plan, diverting and adapting alternative means to livelihood.

### **EFFECT ON ECONOMIC EFFICIENCY4**

Now, the climate's accountability heavily depended on migration, industrial production, education and the finally warning systems have been alerting since then the condition reached at present from where there is no turning back [14]. Again and again due to human interventions ecosystems also got adapted to the changes in our climate. Consequences of which lead the entire breed of survivals to move to better favorable conditions where climates is still not encroached upon. Though in the process many might lose their life. Even this condition applied are applicable to animals or humans, the instinct to survive is strong in more and the especially the might ones are among those who are really more inclined into it.

Among the various efforts to minimize the same few included restoring the stocks of natural fires occurring in large forest by monitoring or at least making 24\*7 availability of ever ready fire fighter devices through adaptation of more ecosystem based methods. Thereby, decreasing the heating effects on ground and global warming indirectly. Also it will assist in building strong re silent areas which in turn help developing and self protecting that regions as natural and semi natural areas. Another solution starts with opening wider ways or area for natural rivers to flow thereby increasing the volume of water[15] been carried by it which might for sure reduce the flood flow causalities. Planting trees in unsuitable areas will definitely magnify the impacts on climate and on the other hand, saving forests can play major role in sinking carbon content in air.

Focusing on ways to reduce the heat through emissions can also be another solution in minimize the global heat rate. Clean energy development programs[16] are directly related to less requirement of the same providing better management of electric hindrances and aid in reducing extensive building of infra structure based on much carbon intake. Further, in spite of more investment in renewable energy resources, we have to focus more on investment aiding efficiency of energy [17]. As now the entire world has witnessed the trauma of COVID-19 and how uncertain and cumbersome any kind of funding will go if proper changes in patterns of use of energy[18] is not done at least now, then all our investments may go

in vain. Nothing seems to be impossible for human mind to overcome if it is determined to handle it well. As through various international agreements and treaties at least we have agreed on some common grounds to work upon single mindlessly thinking not of are own greed and benefits. Though the journey seems long but the road to it is not that difficult and any effort towards the welfare of humankind never goes undone.

In the image below, intensified view of hate waves are depicted like June 2019 European Heat waves. White areas shows the places where clouds are present in land temperature zone. The top of the mountains or snow covered areas are showed with light blue pattern.

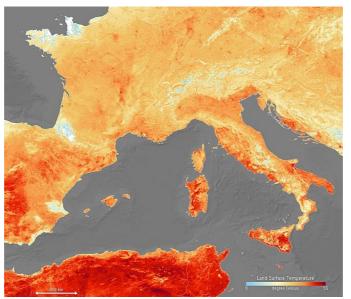


Figure 2. European Heat waves

Poland, France, Spain, Germany and Italy were maximum effective countries by this weather which are much unusual in June. In last two decades around 5000 hectares of land due to wildfires witnessing among the worst. Many such horrific events have being encounter all over the world alerting us to be aware now or to get ready for more upcoming worst climatic consequences.

### **CONCLUSION:**

- Adopting old age techniques of all around world development, sustainable techniques of livelihood and need to stop the over burden on nature must be supervised.
- With proper forest restoration of forest, wildlife will also sustain and flourish to improve and balance the ecosystem.
- More and more methods of reducing heating effects and keeping a watch eye on melting of ice lands and the marked limits.
- ❖ Promoting more and clear energy development programs and researches having more worth in solving the global issues.
- ❖ Better control on emission grounds around the world and sharing resources with optimal utilization mind set.
- ❖ Inter governmental panel on Climate change is the best effort of nations coming forward for solving the climate concerns at a most priority level.
- ❖ The strong effect of global warming is clearly seen on the melting ice, reduces ice and less frozen ground resulting in more glacier lakes, increased in less stable grounds in areas of mountain and permafrost areas. In most Tropical Mountain, climate have been reducing in deep level resulting in much removing of ice especially in Arctic zone.
- ❖ Also presence of water is severely affected in gone five years painting a clear cut image of it in Southern European and in north and South Africa.

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#### Ravi Parashar

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