

Climate Change : Causes and Consequences

Outline.

1) Introduction

a) Hook

b) Background

c) Thesis: Although, climate change has been part of nature's cycle for millennia, but due to human activities such as: air pollution, water pollution and deforestation, climate change is now on a fast track. Moreover, humans have not united themselves against climate change.

2) Natural causes :- ~~Knowing the fact, climate change is causing extreme weather events, extreme heat and global water crisis.~~

- Volcanic eruptions
- Weather events
- Droughts and desertification.

3) Anthropogenic causes climate change

3.1 Pollution

a) Air pollution

- Rise in air pollution since industrial revolution
- Rise of methane air pollution due to cows
- Rise in the number of gasoline engines/diesel engines.

b) Water pollution

- Pollution of oceans due to oil spillages
- Industrial waste flowing into rivers
- Increasing plastic particles in the ocean.

3.2 Deforestation

- Increasing CO_x particles in air
- Desertification due to deforestation

4 Consequences

4.1 Extreme weather events.

3.3 Climate diplomacy.

a) Regional disparities and International relations

- Regional disparities among nations

↳ e.g. South Asian countries and Nile basin.

- Failure of Kyoto Protocol.

- Diplomacy in full swing in all ^{climate change related} meetings from Earth Summit in Rio 1992 to Paris agreement 2015.

4 Consequences.

4.1 Extreme weather events.

- Monsoon havoc in South Asia

↳ Monsoon 33% more intense

(Reported by Intergovernmental Panel on climate change assessment)

- Increasing number of tsunamis in Arabian Sea.

- Torrential downpours in China.

- Acid rains → case study Black Triangle Forest.

4.2 Extreme heat.

- Global warming

- Hojj 2011 and climate attribution.

- Melting glaciers in GB and R.P.

- Heat waves in Karachi (2015)

4.3 Global water crisis.

- Decreasing snow levels on mountains.

↳ Reported by international centre for integrated mountains.

- Intoxicating Oceans due to rise in CO_x gases.

↳ Case by small island states in MLOs.

- Intoxicating of Fresh water.

4.4 Toxic Air

- Decreasing number of birds species

5) Renewable way forward.

- Renewable energy resources.

• To save humanity all countries must unite themselves against climate change.

6) Conclusion.

The Essay.

According to World Meteorological Organization (WMO), 2023 was the hottest year on record from 2015 to 2023. Moreover, sea level has increased with a rate of 4.7mm per year between 2014 to 2023. Planet Earth has maintained a system through which it allows energy and matter to flow through the system, enabling life to sustain. However, ~~with increasing human population and man made structure.~~ This system is called as eco-system. However, with increasing human population and man made structure, the complex system, designed by nature, is disturbed. Such disturbance has led towards the climate change. Although, ~~climate~~ climate change has been part of nature's cycle for millenia, but due to human activities such as: air pollution, water pollution and deforestation, climate is now on a fast track. Moreover, humans have not united themselves against the abnormal change. ~~without~~ ^{change} knowing the fact, climate is causing extreme weather events, extreme heat and global water crisis.