

"Climate Change: Causes and Consequences"

I) Introduction

Thesis:

A change in global and regional climate patterns is the most critical, all-encompassing and "threat multiplying" phenomenon of our time because it is rapidly destabilizing the natural systems - water, food, ecosystems that support human life. Increased levels of carbon dioxide (CO₂) emissions in the atmosphere are caused by human-induced activities and poses risks to those same beings.

(ii) Causes Of The Climate Change:

Human-driven Activities (Anthropogenic):

(a) Burning of Fossil fuels.

→ Emissions of green house gases;

(i) CO₂ - notably Carbon dioxide (CO₂)

(ii) Increase in percentage of methane

(iii) Land nitrous oxide emissions

(iv) Fluorinated gases

(ii) Reliance on transportation.

a) Burning Petroleum-based fuel

releases massive Carbon dioxide (CO₂)

(iii) Electricity generation.

a) Burning of fossil fuels for power generation.

(iv) Deforestation.

a) Stored carbon is released upon clearing or burning.

b) Breaking natural cycle of storing CO_2 .

(v) Industrial emissions

a) Industries emit (CO_2), (NO_2), methane (CH_4) and (SO_2).

(vi) Modern industrialized agriculture.

a) Large amount of nitrous oxide.

b) Large-scale industrialized livestock production, a source of atmospheric methane.

Natural Causes of climate change:

(i) Volcanic eruptions.

(ii) Disturbance of tectonic plates.

Slight contributors to climate change.

III Consequences of the climate change

(i) Impacts on weather:

a) Higher average temperatures

b) Longer-lasting droughts.

c) More-intense wildfires.

d) ~~Stronger~~ ~~Storms~~.

(ii) Impacts on ~~the~~ environment:

a) ~~Sea-level~~ rise.

b) ~~Flooding~~.

c) ~~Ecosystem~~ ~~Stressors~~.

one word does not convey
any sense

(iii) Impacts on ~~an~~ Agriculture:

a) ~~Less~~ ~~predictable~~ growing seasons.

b) ~~Reduced~~ soil health.

c) ~~Food~~ ~~shortages~~.

(iv) Impacts on ~~the~~ Human Health:

a) ~~Deterioration~~ of human health.

b) ~~Mass~~ ~~displacement~~.

(v) ~~Economic~~ ~~Loss~~:

a) ~~Lesser~~ ~~productivity~~

b) ~~Impact~~ ~~Costs~~

well organized
and well
ordered

iv) Global Agreements on Climate Change Mitigation:

(a) United Nations Framework Convention on
Climate Change (UNFCCC)

(b) Paris Agreement 2015

Conclusion