



EFFECTS OF CLIMATE CHANGE

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Climate Change isn't an "issue" to add to the list of things to worry about, next to health care and taxes. It is a civilizational wake-up call. A powerful message - spoken in the language of fire, floods, droughts and extinctions- telling us that we need an entirely new economic model and a new way of sharing this planet. Telling us we need to evolve.



STORMS

WARMING OCEANS

GLACIERS ETC



EFFECTS ON CLIMATE CHANGE

More frequent and intense drought, storms, heat waves, rising sea levels, melting glaciers and warming oceans can directly harm animals, destroy the places they live, and wreak havoc on people's livelihoods and communities. As climate change worsens, dangerous weather events are becoming more frequent or severe.

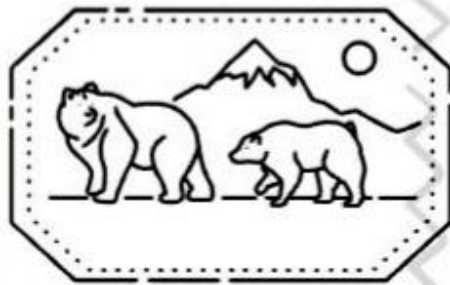


Many physical impacts of climate change are already visible:-

1) Extreme weather events

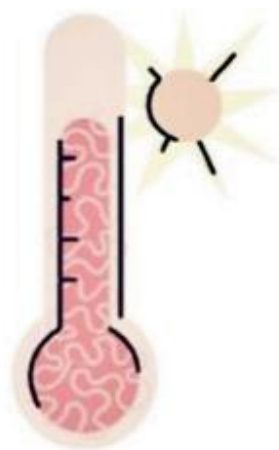
2) Glacier Retreats

3) Changing in the timing of seasonal events



The effects of climate change span the physical environment, ecosystems and human societies. They also include the economic and social changes which stem from living in a warmer world.

Human-caused climate change is one of the threats to sustainability.



According to the IPCC, the extent of climate change effects on individual regions will vary over time and with the ability of different societal and environmental systems to mitigate or adapt to change.

Main Effects Of Climate Change



Arctic likely to become ice-free



Temperatures will continue to rise



Changes in Precipitation





Some more effects of Climate Change

rising maximum temperatures.

- rising minimum temperatures.

- rising sea levels.

- higher ocean temperatures.

- an increase in heavy precipitation (heavy rain and hail)

- shrinking glaciers.

- thawing permafrost.

- What is the major cause for climate change?

- Human activity is the main cause of climate change. People burn fossil fuels and convert land from forests to agriculture. Since the beginning of the Industrial Revolution, people have burned more and more fossil fuels and changed vast areas of land from forests to farmland.

PROBLEMS CREATED BY CLIMATE CHANGE



Climate change may aggravate erosion, decline in organic matter, salinization, soil biodiversity loss, landslides, desertification and flooding.

The effect of climate change on soil carbon storage can be related to changing atmospheric CO₂ concentrations, increased temperatures and changing precipitation patterns.



Climate change affects the social and environmental determinants of health - clean air, safe drinking water, sufficient food and secure shelter.

Between 2030 and 2050, climate change is expected to cause approximately 250 000 additional deaths per year, from malnutrition, malaria, diarrhoea and heat stress.

The direct damage costs to health (i.e. excluding costs in health-determining sectors such as agriculture and water and sanitation), is estimated to be between USD 2-4 billion/year by 2030.

Reducing emissions of greenhouse gases through better transport, food and energy-use choices can result in improved health, particularly through reduced air pollution.



Certain gases in the atmosphere block heat from escaping. Long-lived gases that remain semi-permanently in the atmosphere and do not respond physically or chemically to changes in temperature are described as "forcing" climate change.



CAUSES

CLIMATE EXTREMES, SUCH AS DROUGHTS, FLOODS AND EXTREME TEMPERATURES, CAN LEAD TO CROP LOSSES AND THREATEN THE LIVELIHOODS OF AGRICULTURAL PRODUCERS AND THE FOOD SECURITY OF COMMUNITIES WORLDWIDE.

DEPENDING ON THE CROP AND ECOSYSTEM, WEEDS, PESTS, AND FUNGI CAN ALSO THRIVE UNDER WARMER TEMPERATURES, WETTER CLIMATES, AND INCREASED CO₂ LEVELS, AND CLIMATE CHANGE WILL LIKELY INCREASE WEEDS AND PESTS.

A top-down photograph of a white card with the words "Thank you" written in purple cursive. The card is placed on a light-colored, marbled surface. To the left of the card is a bouquet of purple flowers with green leaves. To the right is a black pen with a white polka-dot grip. In the bottom right corner, a gift wrapped in white paper with a small dot pattern is tied with a red and white striped string. A spool of this string is visible in the top right corner.

Thank
you