



# GLOBAL WARMING-CAUSES & EFFECTS

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## INTRODUCTION:

- Global warming is increase in average temperature of the earth due to greenhouse gases.
- Greenhouse gases act as a blanket in the lower strata of the earth's atmosphere, it traps the heat and light from the sun in the earth's atmosphere which would otherwise escape from the earth( greenhouse effect) and in turn increases the temperature of the globe, known as global warming.



# GREENHOUSE GASES:

## Major gases-

- Carbon dioxide
- Nitrous oxide
- Chlorofluorocarbons
- Water vapour

## Other gases-

- Carbon monoxide
- Carbon tetrachloride
- Hydrochlorofluorocarbons
- hydrofluorocarbons
- Perfluorocarbons, etc.



Causes of  
global  
warming

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graph LR; A[Causes of global warming] --> B[Natural causes]; A --> C[Man-made causes];
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Natural  
causes

Man-made  
causes



# NATURAL CAUSES

- Forest fires
- Permafrost
- Sunspots
- Water Vapour
- Volcanic eruption



# MAN-MADE CAUSES

- Deforestation
- Depletion of ozone layer
- Aerosols in the atmosphere
- Burning of fossils fuels ( at home or in industries)
- Pollution
- Landfills (big chunks of garbage thrown outside,sometimes burnt)
- Mining
- Population explosion
- Use of fertilizers
- Air pollution
- CFCs and CO emitting electrical appliances

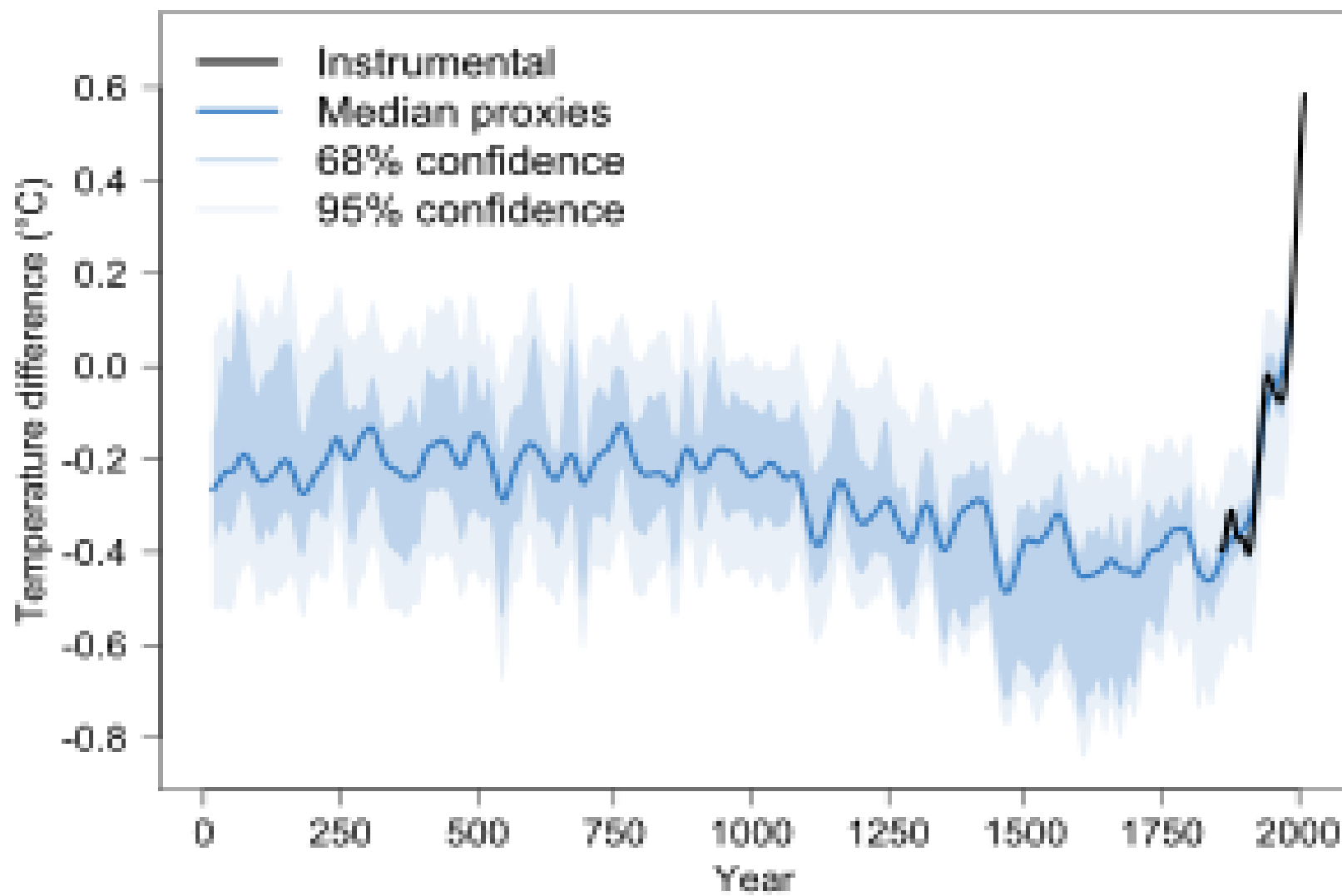


## EFFECTS OF GLOBAL WARMING:

- **Rise in average temperature of the globe-** the average rise in temperature of earth was about  $1^{\circ}\text{C}$  in past 200 years. In pre-industrialization phase average temperature of earth was  $13.96^{\circ}\text{C}$ . In 1992 it was  $14.96^{\circ}\text{C}$  and if this rate continues then till 2050 rise in average temperature of earth would be from  $1.5^{\circ}\text{C}$  to  $5.5^{\circ}\text{C}$  .
- **The earth's rising temperatures are fueling extreme weather** such as longer and hotter heat waves, more frequent droughts, heavier rainfall, and more powerful hurricanes.



# Temperature last two millennia






.....EFFECTS OF GLOBAL WARMING:

- Melting of ice
- Sea-level change
- Frequent and stronger storms
- Ocean acidification
- Damage to marine ecosystem-
  - Damage to coral reefs
  - Loss of planktons



- **Effects on human health-** malaria, respiratory diseases, air borne diseases, diarrhoea, skin cancer, lung diseases, etc.
  - According to IPCC, global warming has serious economic consequences too.
  - Disturbed hydrological cycle
  - **Effect on Plants and Animals-** ecological imbalance, movement towards colder regions, change in feeding and nesting patterns of animals, change in budding and flowering season of plants ,etc.
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# WAYS TO PREVENT GLOBAL WARMING

- Use 4R's-

Refuse, Reduce, Reuse & Recycle

- Use of public transport

- Replacing regular bulbs with eco-friendly bulbs like Compact fluorescent bulbs (CFL bulbs).

- Less use of AC, Refrigerator, Gysers, and other electric appliances.

- Spreading awareness about global warming causes and its consequences to people.

