

Climate Change

Issues, Challenges and Control Measures

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CLIMATE CHANGE: AN OVERVIEW

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Introduction

The world most group in the society are the rural poor bey often depend on natural resources for livelihoods such agriculture, fishing and forestry. The impact of climate currently predicted for India include rise of up to 40°C surface air temperature by 2100. Customized interventions therefore the need of the hours to cope up with the specific indifferent states and regions.

Definition

-It is abroad range of global phenomena created medominantly by burning fossil fuels. Which add heat — mapping gases to earth's atmosphere? These phenomena melude the increased temperature trends described by global marming but also encompass changes such as sea-level rise, mass loss in Greenland, Antarctica, the Arabic and Mountain glaciers worldwide shifts in flower \ plant blooming and extreme weather events! said by NASA.

Clim. e Change and its Impact on Agriculture

agricultural operations starting from filed preparation late June to December. harvesting. Tamil Nadu is the 11th largest and 7th jawar, bajra, maize, cotton, ground nut, mung bean, banal Tamil Nadu. jawar, bajra, maize, control and lasts up to and sugar cane. The climate changes most affect by agricultu Summers: Summer starts in the month of March and lasts up to low level and high-level rain fall are total spoil the croj late June. growth.

Increasing Temperature - Declining Rainfall

For Tamil Nadu as a whole, the projections maximum temperature show an increase of 1.0, 2.2 and 3.1 for the periods 2020s (2005-2035), 2050s (2035-2065) at 2080s (2065-2095), respectively, with respect to baseling period (1970-2000). Similarly, the projections of minimu temperature show an increase of 1.1, 2.4 and 3.5 % respectively, for the similar period bands.

The annual rainfall projections for the same perior Climate Change Knowledge Portal indicate a general decrease in rainfall of about 2-7, 1-4 and 4 9 %, respectively. There are also indications of increasing Eastern Ghats, and the High Rainfall acro-climatic zone no 2012. the tip of the peninsula could have an increase in rainfall fro 10% to 25%.

Seasons in Tamil Nadu

Climate is the main factor that influences at Monsoon : The monsoon season in Tamil Nadu starts from

Temperature: On an average monsoon day, the temperature harvesting. Talling Temperature: On an average inclined and the country. The major crops are rio can range anywhere between 25 and 30 degrees Celsius in

Temperature: During summers, temperatures range from 28 degrees Celsius to 45 degrees Celsius depending on the place you are visiting in Tamil Nadu.

Winter: This is perhaps the best time to visit Tamil Nadu. Winter in Tamil Nadu begins in the month of November and extends until March, just before the onset of the summer

Temperature: The temperature in the state during this time ranges between 22 to 30 degrees Celsius.

Each of the last three decades has been successively heavy rainfall events during the northeast monsoon season at warmer at the earth's surface than any preceding decade since a slight decrease during the southwest monsoon season. Il 1850. The globally averaged temperature data show a High Altitude acro-climatic zone of the Western Ghats and # warming of 0.85 [0.65 to 1.06] °C. Cover the period 1880 to

> IPCC Assessment report 5th States the global mean temperatures will be continue to rise over the 21st Century if Green House Gas (GHG) emissions continue unabated and temperature change will not be regionally uniform. It is

High Frequency - Low Impacts

- 1. Multiple minor events impact > 1 major The indirect consequences of the [Cyclone, flood or Server drought]
- 2. Impacts of strong wind and heavy rain
 - March 30/2012 50 lakhs worth 15/j banana trees were lost in Theni Distric
 - May 04/2011 Lot of banana trees Managuzhi village, coodalore taluk Nilgiris District were lost.
 - May 07,08/2012 1.5 cores of bana; trees, drumsticks trees, coconut tre were damaged in sinamanoor area Theni District.

Effects of Climate Change

It is not scientifically possible to assign individu weather events to the current climate change, however, it ca be statistically proven that global warming will increase the probability of extreme weather events. The dire consequences of man-made climate change include;

- 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

The indirect consequences of climate change, which

- An increase in hunger and water crises, especially in developing countries
- Health risks through rising air temperatures and heat
- Economic implications of dealing with secondary damage related to climate change
- Increasing spread of pests and pathogens
- Loss of biodiversity due to limited adaptability and adaptability speed of flora and fauna
- increased HCO3 Ocean acidification due to concentrations in the water as a consequence of increased CO2 concentrations
- The need for adaptation in all areas (e.g. agriculture, forestry, energy, infrastructure, tourism, etc.)

Climate Changes - Affect Human Health

Extremes in weather and temperature, increased pollutions andenvironmental toxins and changes in food security can all cause physical and mental health including;

- · Safety of Shelter
- Air Quality

- Food Availability
- Nutrition Levels in Food.

According to the world health organizations (WH) researches predict that certain effects of climate change we contribute to an increase of about 250,000 deaths per ye between 2030 and 2050 from conditions such as;

- Heat Stress
- Malnutrition
- Diarrhea
- Malaria
- High level body pain
- Dehydrations
- Climate Change

Conclusion

We need to take part and try to stop glob warming and other effects on climate change. If the earth temperatures continue to rise in the future, living things a earth would become extinct due to the high temperatures. humans contribute to control global warming, this world would be cooler and the high temperatures we currently have would decrease. If everybody as one take stand and try to end most the climate changes that are occurring, this world would be safer place to live on.

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