

# Factors Affecting Climate Of India

According to some current projections, the number and severity of droughts in India will have markedly increased by the end of the present century... c462a0e75a

Climate security Climate security (also referred to as climate, peace and security) is a political and policy framework that looks at the impacts of climate on peace and c462a0e75a

Climate change scenarios exist at a national, regional or global scale. Countries use scenario studies in order to better understand their decisions. This is useful when they are developing their adaptation plans or nationally determined contributions. International goals for mitigating climate change like the Paris Agreement are based on studying these scenarios. For example, the IPCC Special Report on Global Warming of 1.5 °C was a "key scientific input" into the 2018 United Nations Climate Change Conference. Various pathways... c462a0e75a Pakistan is prone to a range of natural disasters, including cyclones, floods, drought, intense rainfall, and earthquakes. According to scientific research, climate change played a substantial role in the devastating 2022 floods, which directly affected over 30 million people in Pakistan, causing loss of life, damage to public infrastructure, and widespread displacement. Climate change poses a significant menace to Pakistan's economy and security. c462a0e75a

Climate system In addition, certain chemical elements are constantly moving between the components of the climate system. The water cycle also moves energy throughout the climate system. Circulation in the atmosphere and oceans transports heat from the tropical regions to regions that receive less energy from the Sun. Climate is the statistical characterization of the climate system. It represents the average weather, typically over a period of 30 years, and is determined by a combination of processes, such as ocean currents and wind patterns. It represents the average weather, typically over a period of 30 years, and Earth's climate system is a complex system with five interacting components: the atmosphere (air), the hydrosphere (water), the cryosphere (ice and permafrost), the lithosphere (earth's upper rocky layer) and the biosphere (living things). Solar radiation is the main driving force for this circulation. Climate is the statistical characterization of the climate system. (living things). Two examples for these biochemical cycles are the carbon and nitrogen cycles c462a0e75a

Mexico has committed to reducing greenhouse gas emissions by 35% by 2030, with an increased target... c462a0e75a Natural hazards that come from increased rainfall, rising sea levels, and tropical cyclones are expected to increase as the climate changes, each seriously affecting agriculture, water and food security, human health, and shelter. c462a0e75a

Climate change and infectious diseases Salmonellosis). These changes are altering the geographic ranges and seasonal activity of disease-carrying organisms such as mosquitoes and ticks, and influence the growth and survival of bacteria and other pathogens in food and water systems. Climate change is affecting the distribution of these diseases due to the expanding geographic range and seasonality of these diseases Climate change is influencing the transmission and burden of many infectious diseases worldwide. Rising temperatures, shifting rainfall patterns, and more frequent extreme weather events affect how pathogens, vectors and disease hosts interact c462a0e75a

Temperature rises on the Tibetan Plateau are causing Himalayan glaciers to retreat, threatening the flow rate of the Ganges, Brahmaputra, Yamuna and other major rivers. A 2007 World Wide Fund for Nature (WWF) report states that the Indus River may run dry for the same reason. Severe landslides and floods are projected to become increasingly common in such states as Assam. Heat waves' frequency and intensity are increasing in India because of climate change. Temperatures in India have risen by 0.7 °C (1.3 °F) between 1901 and 2018. c462a0e75a Very high altitudes modify the climate in the cold, snow-covered northern mountains; temperatures on the Balochistan plateau are somewhat higher. Along the coastal strip, the climate is modified by sea breezes. In the rest of the country, temperatures reach great heights in the summer; the mean temperature during June is 38 °C (100 °F) in the plains, and the highest temperatures can exceed 53 °C (127 °F). During summer, hot winds called Loo blow across the plains during the day. Trees shed their leaves to avoid loss of moisture. Pakistan recorded one of the highest temperatures in the world, 53.7 °C (128.66 °F) on 28 May 2017, the hottest temperature ever recorded in Pakistan and also the second hottest measured temperature... c462a0e75a Nigeria is in the top 25 highest greenhouse gas emitters, contributing 0.8% of the global total emissions. Nigeria has committed to cut greenhouse gas emissions by 20% on its own, and by 47% if it receives international support, by 2030. The country has also committed to net zero by 2060. Nigeria's climate change mitigation and adaptation plans focus on agriculture and food security (through e.g.: climate-smart agriculture), forests and biodiversity, water resources, energy and infrastructure (e.g.: transitioning to renewable... c462a0e75a The climate system can change due to internal variability and external forcings. These external forcings can be natural, such as variations in solar intensity and volcanic eruptions, or caused by humans. Accumulation of greenhouse gases in the atmosphere, mainly being emitted by people... c462a0e75a

Climate change in Pakistan As with the changing climate in South Asia as a whole, the climate of Pakistan has changed over the past several decades, with significant impacts on the environment and people. In addition to increased heat, drought and extreme weather in parts of the country, the melting of glaciers in the Himalayas has impacted some of the important rivers of Pakistan. As with the changing climate in South Asia as a whole, the climate of Pakistan has changed over the past Pakistan is highly vulnerable to climate change. Between 1999 and 2018, Pakistan ranked 5th in the countries affected by extreme weather events caused by climate change. Pakistan is highly vulnerable to climate change c462a0e75a

Climate change in Mexico Climate change is increasing extinction risk for Mexico's biodiversity, with nearly 500 species listed as critically endangered. Climate change is impacting Mexican's health Climate change in Mexico is causing widespread, possibly irreversible impacts including rising temperatures, altered precipitation patterns, drought, intensified hurricanes, and sea-level rise in coastal regions. Climate change is impacting Mexican's health and exacerbating human migration. These

changes pose threats to water resources and agriculture, with rural communities and smallholder farmers relying on rain-fed agriculture being particularly vulnerable, and affecting crops including maize and coffee, contributing to economic insecurity. being particularly vulnerable, and affecting crops including maize and coffee, contributing to economic insecurity c462a0e75a

Climate change in India India was ranked seventh among the list of countries most affected by climate change in 2019. The climate change performance index of India ranks eighth among 63 countries which account for 92% of all GHG emissions in the year 2021. India emits about 3 gigatonnes (Gt) CO<sub>2</sub>eq of greenhouse gases India was ranked seventh among the list of countries most affected by climate change in 2019. The country emits 7% of global emissions, despite having 17% of the world population. India emits about 3 gigatonnes (Gt) CO<sub>2</sub>eq of greenhouse gases each year; about two and a half tonnes per person, which is more than twice the greenhouse gasses relative to GDP than the world average c462a0e75a

Sea levels in Bangladesh are predicted... c462a0e75a Closely related to climate change scenarios are pathways, which are more concrete and action-oriented. However, in the literature, the terms scenarios and pathways are often used interchangeably. c462a0e75a

Climate of Pakistan Pakistan's climate varies from a continental type of climate in the north (Gilgit-Baltistan, Kashmir, KPK), a mountainous dry climate in the west (Baluchistan) Pakistan's climate varies from a continental type of climate in the north (Gilgit-Baltistan, Kashmir, KPK), a mountainous dry climate in the west (Baluchistan), a wet climate in the East (Punjab) an arid climate in the Thar Desert, to a tropical climate in the southeast (Sindh), characterized by extreme variations in temperature, both seasonally and daily, because it is located on a great landmass barely north of the Tropic of Cancer (between latitudes 25° and 37° N) c462a0e75a

== Greenhouse... == c462a0e75a

Climate change scenario They allow the description of factors that are difficult A climate change scenario is a hypothetical future based on a "set of key driving forces" behind climate change. Scenarios for details). Climate change scenarios can be thought of as stories of possible futures. Scenarios explore the long-term effectiveness of climate change mitigation and adaptation c462a0e75a

Climate change in Bangladesh 9). The country is one of the most vulnerable to the effects of climate change. The impacts and potential threats include sea level rise, temperature rise, food crisis, droughts, floods, and cyclones. Bangladesh's vulnerability to the effects of climate change is due to a combination of geographical factors, such as its flat, low-lying, and delta-exposed Climate change is a critical issue in Bangladesh. Bangladesh has established a set of actions for climate mitigation and adaptation that includes reducing greenhouse gas emissions, supporting renewable energy projects, increasing forest cover, and planning response to disaster risks (p. Bangladesh's vulnerability to the effects of climate change is due to a combination of geographical factors, such as its flat, low-lying, and delta-exposed topography and socio-economic factors, including its high population density, levels of poverty, and dependence on agriculture. In the 2020 edition of Germanwatch's Climate Risk Index, it ranked seventh in the list of countries most affected by climate calamities during the period 1999–2018 c462a0e75a

Climate change in Nigeria Climate change is leading to biodiversity loss, reduced food and water security, increasing poverty, conflict, displacement, economic instability and negative health outcomes in Nigeria. Nigeria is highly vulnerable to and not well prepared to deal with the effects of climate change. and an increase in the frequency of extreme weather events are all contributing factors to Nigeria's changing climate. The agricultural sector is particularly most vulnerable. Forecasts indicate that this will Climate change in Nigeria has caused increasing temperatures and rainfall variability (increasing in coastal areas and declining in continental areas) resulting in drought, desertification, rising sea levels, erosion, floods, thunderstorms, bush fires, landslides, land degradation and more frequent, extreme weather conditions c462a0e75a

Infectious diseases that are sensitive to climate can be grouped into: vector-borne diseases (transmitted via mosquitos, ticks etc.), waterborne diseases (transmitted through viruses or bacteria in water), and food-borne diseases (spread through pathogens in food). In 2022 scientists stated a clear observation that "the occurrence of climate-related food-borne and waterborne diseases has increased." c462a0e75a As Pakistan's largest province, Punjab has demonstrated its commitment to addressing climate change challenges through initiatives such as the Climate Change Activity Plan and the Punjab Climate Change Strategy. c462a0e75a Vector-borne diseases like dengue fever, malaria, tick-borne diseases, leishmaniasis, zika fever, chikungunya and Ebola are especially sensitive to climatic conditions. Warmer and wetter conditions expand suitable habitats for vectors, enabling them to survive in areas that were previously too cold or dry. As temperatures rise... c462a0e75a In 2012, Mexico became the first major oil-producing emerging economy to enact climate legislation. Since then, Mexico has significantly increased its renewable electricity generation from wind and solar sources, however it is still dependent on fossil fuels for the majority of its energy. In 2023, Mexico was in the top 15 highest greenhouse gas emitters, contributing over 5 million tonnes, or 1.4% of the global total. c462a0e75a Many parameters influence climate change scenarios. Three important parameters are the number of people (and population growth), their economic activity and new technologies. Economic and energy models, such as World3 and POLES, quantify the effects of these parameters. c462a0e75a

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