

1.3 Impacts of Climate Change

Areas Affected By Climate Change

Area Affected	Consequences
Ecosystems	<ul style="list-style-type: none"> Species migration Change in species composition Loss of species and communities
Hydrology And Water Resources	<ul style="list-style-type: none"> Supply of water Sanitation
Food and Agriculture	<ul style="list-style-type: none"> Enhanced CO2 on crop growth Soil fertility and erosion
Coastal Systems	<ul style="list-style-type: none"> Sea level rises Increases in sea surface temperature
Human Health	<ul style="list-style-type: none"> Increases in heat-stress mortality

Projected Impacts

Country	Area of Concern	Possible Ramifications
Maldives	Most of the islands are only 1.5 metres above sea levels, which are forecast to rise by up to 59 centimetres by 2100.	<ul style="list-style-type: none"> The citizens of Maldives are contemplating buying lands from countries such as Sri Lanka, India and Australia to avoid being displaced from homes. This raises the question of what rights citizens have if their homelands are destroyed. <p>"We can do nothing to stop climate change on our own and so we have to buy land elsewhere. It's an insurance policy for the worst possible outcome." - Mohamed Nasheed, President of Maldives.</p>
India	466 glaciers in India have reduced by 20% in size between 1962 and 2001. Examples: <ul style="list-style-type: none"> Dokriani glacier Chorabari glacier Parbati glacier 	<ul style="list-style-type: none"> It is predicted that the melting of glaciers would induce flooding over the next 30 years. <p>This would ultimately dehydrate the rivers that the glaciers feed, putting the supply of water for South Asia countries at risk. More than one-sixth of the world's people would be affected, particularly those living in the mountain areas.</p>
Florida, America	The average summer temperatures are predicted to rise by 7 to 9 degrees Fahrenheit. Sea levels are forecast to increase by at least an additional 15 inches.	<ul style="list-style-type: none"> More intense summer and heat waves More frequent and severe droughts, storms and floods

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