

# Earth Science & Climate Change

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## The threats and impacts of climatic changes

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Climatic change refers to any significant change in the measures of climate lasting for an extended period of time. Global warming refers to the recent and ongoing rise in global average temperature near Earth's surface. It is caused mostly by increasing concentration of green house gases in the atmosphere. Global warming is causing climate pattern to change. The probable net result of global warming and changes in atmospheric chemistry through air pollution and other natural sources would be climate changes at local, regional and global levels including both short term and long changes in weather and climate. With rapid climate change one fourth of Earth's species could head for extinction by 2050. Climate change is already beginning to transform life on earth. Natural events and human activities are believed to be contributing to an increase in average global temperature. This is caused primarily by an increase in "green house" gases such as CO<sub>2</sub>. The climate changes caused by green house effect due to higher concentration of CO<sub>2</sub> in the atmosphere are primarily related to the pattern of energy transfer and its uses of world over. These changes result in the increase of temperature of the surface of the earth and the lower atmosphere. The trend of increasing atmospheric CO<sub>2</sub> enhances the green house effect which raises the temperature of the earth's surface. The net result of all the variation is the gradual increase of the temperature of the earth's surface and the lower atmosphere which causes changes in the climatic condition at local through regional to global level. The long term challenge of stabilizing the atmospheric concentration of the green house effect requires that global emission be significantly lowered than what they are today. If we do not act now, climate change will rapidly alter the lands and waters we all depend upon for survival, leaving our children and grand children with a very different world.

## Biography

Shahnaz Jamil obtained her PhD degree in the year 1998 from Lalit Narayan Mithila University. She has guided 2 research scholars for their PhD degree and five research scholars are registered. She has attended several seminars, symposia and conferences at the national level. She has published 12 papers in reputed journals. She is a life member of "Indian Science Congress" and "Indian Botanical Society".

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