

Divecha Centre for Climate Change Indian Institute of Science



19th JEREMY GRANTHAM LECTURE ON CLIMATE CHANGE

Impact of Climate Change on Monsoon Decadal Variability and Prediction

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Thursday 21 December 2023, 3:30 pm
at Divecha Centre for Climate Change auditorium



South Asian summer monsoon rainfall varies on multi-decadal time scales. These variations occur on account of the multi-decadal variations in the sea surface temperatures in the Atlantic and Pacific Oceans. How will climate change influence the decadal variation of the south Asian monsoon? The Decadal Climate Prediction Project addresses a range of scientific issues involving the ability of the climate system to be predicted on annual to decadal timescales, the skill that is currently and potentially available, the mechanisms involved in long timescale variability, and the production of forecasts of benefit to both science and society. Analysis of the results from the Decadal Climate Prediction Project shows a significant skill in the prediction of summer monsoon precipitation from one year to 6-9 years ahead.