

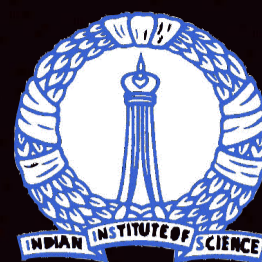
Divecha Centre for Climate Change

Indian Institute of Science



DIVECHA CENTRE
FOR CLIMATE CHANGE

15th JEREMY GRANTHAM LECTURE ON CLIMATE CHANGE



Extreme weather and climate change

Adam Sobel

Columbia University

Lamont-Doherty Earth Observatory and Engineering School,
New York, USA

Tuesday 10th December 2019, 3:30 pm
at Divecha Centre for Climate Change



Extreme weather events are the aspect of climate to which human society is most sensitive. As human greenhouse gas emissions have changed the climate, all extreme weather events occurring today are, in principle, altered in some way by human influence. Yet understanding that influence is often challenging, and our degree of understanding differs from one event to another. I will give an overview of what we know about the climate change influence on different kinds of extreme weather events. I will also explain some of the methodologies being used to assess extreme weather risk, and how those are evolving.

Adam Sobel is a professor at Columbia University's Lamont-Doherty Earth Observatory and Engineering School. He studies the dynamics of climate and weather phenomena, particularly in the tropics. In recent years he has become particularly interested in understanding the risks to human society from extreme weather events and climate change. He is author or co-author of over 150 peer-reviewed scientific articles; a popular book, Storm Surge, about Hurricane Sandy.