



The Earth Climate: Past, Present and Future

Cong-Bin Fu

Institute for Climate and Global Change Research, Nanjing University

Institute of Atmospheric Physics, Chinese Academy of Science

Climate change is currently one of the grand environmental challenges to human beings and will also have great impact to human society in this century. With efforts from many scientists around the world, the current status, mechanisms and impacts of climate change has been intensively studied. This talk will give a brief introduction about the story of earth climate. Beginning with the picture of observed global climate history of past 100, 1000, 150000, 420000 and 5000000 years, the talk will address the common interesting questions: (1) Does global warming of earth climate really happen? (2) What are the major causes of climate change and what are the main natural and anthropogenic factors? (3) Will the future earth climate be continuously warming up? (4) What're the impacts of global warming on human society? Finally, a brief introduction of climate change research and the strategy of human adaptation to climate change.