



International Virtual Conference  
on  
**Earth's Changing Climate: Past, Present & Future**  
15-17 October 2020

Organized by  
**The Society of Earth Scientists**

Co-organized by  
**Birbal Sahni Institute of Palaeosciences, Lucknow**  
**Indian Institute of Tropical Meteorology, Pune**  
**National Centre for Polar and Ocean Research, Goa**  
**National Institute of Disaster Management, Delhi**  
**National Institute of Advanced Studies, Bengaluru**

## PREAMBLE

**E**arth's climate varies even without human influence but the acceleration in the changing pattern with cause and effect by/to the civilisation is a matter of concern to scientists. These patterns are lessons to understand future trends and ways and means for mitigation. The extreme weather events in almost every region of the globe involving excessive loss of human life and property are causing anxiety in society and posing challenges before scientists and planners. Cyclical variations in the Earth's climate occur at multiple time scales, from years to decades, centuries, and millennia. Cycles at each scale are caused by a variety of physical mechanisms. In the last 65 Ma only, there have been several cycles of glacial advances and retreat, with the abrupt end of the last ice age about 11,700 years ago marking the beginning of the modern climate era and human civilization. A multidisciplinary approach in studying the Earth's changing climate will provide a holistic view and guide us in future planning and programming.

A multi-domain virtual conference is being organized wherein recent researches on palaeo-climatic changes and disasters, Quaternary climate variations and climate cycles, extreme weather events and meteorological studies, natural atmospheric climate forcing, ocean warming, and coastal ecosystem, disaster mitigation planning and management will be presented and scope of mutual research cooperation in future will be discussed. COVID-19 impact on the environment and future strategies to retain a positive impact on the environment by sustainable development will also be elaborated as a future course to protect our environment.

**Date:** 15-17 October 2020

## THEMES

1. Palaeoclimate events/variations in Earth's geological history and associated disasters
2. Quaternary climatic changes and climate cycles (land and ocean records); Anthropogenic interferences
3. Extreme weather events; El Niño and La Niña episodes
4. Natural variability in the climate system: Natural climate forcing (Solar and Volcanic variability; Earth's orbital changes)
5. Environment and green energy: Actions by public and private sector industries
6. Climate change and water resources
7. Indian Ocean warming, coastal ecosystem and sea-level rise
8. Teleconnection between Poles and Tropics
9. Carbon budget: Emission space and Equity
10. Priority Challenges to be addressed for SDGs: Climate Change; Healthy Oceans; water Security; Clean Air; Weather and Disaster Resilience; Sustainable Soil Management
11. Disaster management and policy framework; Climate Actions: stocktake in India
12. COVID-19 impact on environment and future strategies

## REGISTRATION

There is no Registration Fee.

The participation will only by registration and submission of abstract. The registration form is available at the following link:

<https://forms.gle/z8ekTX51v7jbPpu47>

The abstracts should be sent through mail to [india.ses@gmail.com](mailto:india.ses@gmail.com)

Registration will close on 30.09.2020 (12 PM IST).

The conference will be organized virtually on CISCO Webex. Participants will have to submit an abstract (not more than 500 words without maps/figures/references, Times New Roman; 12 pt, double spacing). The abstracts will be peer-reviewed and only accepted papers will be allowed to present. E-Abstract of the conference will be circulated before the conference to all the participants. The three-day conference will be divided into different sessions based on various themes and timing will be decided based on the participating countries. Ten minutes for presentation and five minutes for discussions will be allotted for each presentation. Invited talks from renowned scientists will be organized in each session. System requirements will be communicated to all participants.

## PUBLICATION OF PROCEEDINGS

Full papers will be invited after the conference and peer-reviewed and accepted papers will be published under the '**Society of Earth Scientists Series**' by Springer <https://www.springer.com/series/8785>

**Presidents:**

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**Conveners**

Dr. Venkatesh Dutta (Joint Secretary, SES)  
School of Environmental Sciences, BBAU, Lucknow  
Dr. Satish C. Tripathi  
General Secretary; The Society of Earth Scientists

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Dr. K. J. Ramesh, NIAS, Bengaluru

**Local Organizing Committee (SES):**

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**CONTACT**

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