



**AsiaPEX**



## About the University

The Central University of Rajasthan (CURAJ) was established by an Act of Parliament as a Central University in 2009. There are 10+ central universities established around the same time, mostly one in each state. In order to meet the challenges of the knowledge era and to keep pace with the knowledge explosion in higher education, the CURAJ is committed to inculcate and sustain quality in all the dimensions of higher education viz. teaching, learning, research, extension and governance while catering to the regional and global needs. Uniquely, all the programs are so designed to develop CURAJ as a central for generation of knowledge, enhancement of employability and most importantly as a breeding ground of ideas and techniques for sustainable development.

## School of Earth Sciences

The School of Earth Sciences is committed to provide interdisciplinary knowledge in the field of Earth Sciences and their linkage with societal development. Presently it has 2 departments (Atmospheric & Environmental science). The prime goal of the school is to train manpower with scientific knowledge and technical skills in the field of earth sciences to serve local and global communities.

## Department of Atmospheric Science

The Department of Atmospheric Science, was established in 2016 under the School of Earth Sciences. The Department offers MSc and Ph.D. programmes in Atmospheric Science. The objective of the MSc programme is to promote strong interdisciplinary research and application capabilities in the area of atmospheric and climate science.

The training encompasses numerical modelling of atmosphere and ocean, monsoon studies, high impact severe weather forecasting, air pollution, land-air-sea interaction, and climate change to understand its physical and social consequences.

# International Workshop on Asian Precipitation Experiment (AsiaPEX)/ South Asia (SA)

**March 1-2, 2020**



**Funded by**

**Kyoto University (KU), Japan & Sumitomo Foundation, Japan**

**Jointly Organized By**

**Department of Atmospheric Science, School of Earth Sciences**

**Central University of Rajasthan, India**

**And**

**International Consortium for Earth and Development Sciences**

**(ICEDS),**

**Kagawa University, Japan**

## About Workshop

Asian Precipitation Experiment (AsiaPEX) is a new prospective Regional Hydro-climatological Project under GEWEX framework, which was launched in Aug 2019 as a follow up of the MAHASRI (Monsoon Asian Hydro-Atmosphere Scientific Research and Prediction Initiative), which was conducted during 2006-2016. MAHASRI was a follow up of the GAME (GEWEX Asian Monsoon Experiment) that was completed in 2005. AsiaPEX aims to understand the Asian land precipitation over diverse hydro-climatological conditions for better prediction, disaster reduction and sustainable development. One of the objectives of the AsiaPEX is to conduct coordinated observation and modeling initiatives in the Asian monsoon region. This is also being carried out under AMY (Asian Monsoon Years)-II, which is planned from 2020 to 2023, with a POP (pilot observation period) from 2020 to 2021 and the IOP (Intensive Observation Period) from 2022 to 2023. Thus, AsiaPEX and AMY-II will be associated with each other. The first conference of AsiaPEX has been successfully concluded in August 2019, with several contributors from South Asian countries. We hope to play important role in the AsiaPEX community in future.

Extreme Weather and Hydrology over Himalayan region take principal positions in five overarching questions defined in the AsiaPEX. India has already launched an integrated Himalayan Meteorology programmed for west, central and eastern Himalayas, wherein a network of observational platforms including AWS, Doppler Weather Radars and other instruments are being installed in the Himalayan region. Nepal is also enhancing its observational network over the central Himalayas. India is also planning to start the Third Pole Regional Climate Centre covering Bangladesh, Nepal, Bhutan and Myanmar. Japanese researchers continued unique and strong observational activity over the North-eastern Indian subcontinent (SOHMON) and initiated new project on the precipitation mechanisms over the Himalayan Range associated with large scale moisture transport coupling with complex terrain (HiPRES). Therefore, it is proposed to integrate all these observation and modeling efforts under the AsiaPEX/ South Asia (SA).

*This workshop offers opportunities to discuss and identify key challenges in the hydroclimate science in the upcoming decade and to develop a science plan of the AsiaPEX/ SA. It is expected that scientists and researchers of the South Asian countries including Heads of the Meteorological Services or their representatives active in this field will attend this workshop.*

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(Established under the Central Universities Act, 2009)

**School of Earth Sciences**  
**Department of Atmospheric Science**

