



Institute for Advanced Research in Science, Bangalore, India

Workshop on Atmospheric Satellites for Asian Monsoon cloud-precipitation Science and Applications (WASAMSA)

<https://events.iarsc.in>

will be held Online during 22-25 Feb 2022

First Announcement

I. Introduction:

The Asian monsoon largely impacts agricultural production and hence economy of the countries under the influence of monsoon. On the other hand, the devastation due to extreme rain events is incredible in terms of loss of human life and infrastructure. Thus it is important to understand characteristics of precipitation systems and unravel the underlying processes to improve rainfall prediction. The Mesoscale Convective Systems (MCSs) are the building blocks of the Indian monsoon and precipitation systems observed over the Indian region (e.g., thunderstorms, extreme rain events, depressions and cyclones). Continuous measurements made in the past with ground and space-based platforms resulted in a wealth of observations. These data have significantly improved our understanding of precipitation organization in monsoons, cloud processes in precipitation systems and cloud microphysics.

The main objective of **WASAMSA** is to make an assessment and evaluate our present understanding of cloud and precipitation systems in the Asian monsoon region and to identify gap areas for further research recommendations.

This Interactive Workshop will include Plenary and Invited talks by speakers of eminence and excellence on various satellite missions of ISRO, JAXA, NASA and ESA (such as, EOS-1, RISAT series, ScatSat-1, INSAT-3DR, Megha-Tropiques, OCEANSAT, TRMM, GPM, CloudSat, TROPICS, IRNSS series, GLONASS, COSMIC), National Research Programmes in Weather and Climate, WCRP new strategic plan, and on Atmosphere-Land-Ocean processes relevant to the monsoons, energy and water cycle, clouds and convection.

Oral presentations will be organized during the workshop by Identified Young scientists.

Workshop themes are:

- (i) Precipitation measurements using ground and space-based platforms
- (ii) Regional and global precipitation characteristics
- (iii) Science of precipitation systems of the Asian region
- (iv) Cloud convection and precipitation
- (v) Cloud microphysics and cloud-resolving models
- (vi) Mesoscale Convective Systems and Precipitation
- (vii) Rainfall modelling/prediction with numerical models

II. Programme Committee

1. Dr. Kusuma G. Rao, Director, IARSc, Bangalore
2. Prof. Kenji Nakamura, Faculty of Economics, Dokkyo University, Japan.
3. Dr. Takuji Kubota, Senior Researcher & manager, EORC, JAXA, Japan
4. Dr. R. Krishnan, Executive Director, CCCR, IITM, Pune
5. Dr. Rajeev Kumar Mehajan, Scientist-G & Advisor, SERB, New Delhi
6. Dr. Y. V. N. Krishnamurthy, Sr. Professor, IIST, Trivandrum
7. Dr. A. K. Mitra, Head, NCMRWF, New Delhi
8. Dr. Tirtha Pratim Das, Director, SPO, ISRO Hq, Bangalore
9. Prof. Yukari N. Takayabu, AORI, The University of Tokyo, Japan
10. Prof. Subimal Ghosh, Dept of Civil Eng, IIT Bombay, Mumbai
11. Prof. V. Venugopal, CAOS, IISc, Bangalore
12. Dr. M. V. Ramana, Head, LAPD, ECSA, NRSC, Hyderabad

III. Registration

Participants category	By 15 Jan 2022 (No payment is acceptable at the venue during the workshop)	Later to 15 Jan 2022
i. Students	INR 1000	INR 1000
ii. Scientists	INR 2000	INR 2500
iii. Foreign delegates	US\$ 75	US\$ 100

The Programme Committee invites Scientists & Students participation in the exciting workshop. The registration is open now offline (mail to iarscevents@iarsc.in & WASAMSA2022@gmail.com) and will shortly open online

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