

Editors Page

We all know that VayuMandal is the official Bulletin of the Indian Meteorological Society (IMS). Being the only journal published by IMS, one can consider it as the face of IMS. It is worth noting here that some reputed meteorological societies in the world are very successful in regularly publishing high-impact factor journals. IMS has a lot to achieve in the direction of scientific publishing. In this context, we need to ponder over a couple of important points. First of all, the relationship between reputation of a scientific journal and authors submitting their good papers there is like chicken and egg relationship. It is difficult to decide which comes first? Unless we publish our good papers in VayuMandal, it cannot have a reasonable impact factor. Simultaneously, unless VayuMandal has worthy impact factor, no early career scientist will like to publish a paper in this journal. The next question is whether we as a community have really tried to raise the level of VayuMandal? These are important questions to think about in times to come. Nevertheless, this editorial group has been trying its best to enhance the quality of VayuMandal by maintaining the quality and regularity of publishing, in spite of the occurrence of Covid. Quality of papers and regularity of publication are the minimum required to earn any credibility in a journal.

In this 48(2) issue of VayuMandal, the first paper is a review of avalanche phenomena in the Northwest Himalaya by Drs. M.S. Shekhar and A. Ganju. This paper discusses India's continuous and successful journey up to the present-day snow avalanche prediction. Further, it points out the challenges posed by the changing climatic conditions on the avalanche phenomena. The second article is based on the response of precipitation isotope to the convective activities over the Bay of Bengal. In this paper, isotopic analysis of precipitation over an island located in the Bay of Bengal has been carried out from 2012 to 2018 and it is found that the precipitation isotopes appear to be modulated by the monsoon intra-seasonal oscillations as well as by the Madden Julian Oscillation. The heavy rainfall events and resultant flooding during the summer monsoon season 2020 over the Gandak, Bagmati/Adhawara, and Kosi river catchments of North Bihar have been examined in the third paper. The proposed statistical models provide impacts of Areal Averaged Precipitation (AAP) over the water levels with the time lag of hours depending upon the locations of River Gauges stations. The fourth article in this issue discusses new trends in the variations of Rainfall and Cyclonic Systems over Vidarbha using the local data during 1961-2020. It is found that the coefficient of variance between the two periods 1961-1990 and 1991-2020 of annual rainfall and cyclonic systems is large. Further, it is claimed that the outcomes of this study would be useful for good planning for agriculture, administration, forecasters and all concerned. The fifth paper is on the formulation of microsecond and sub-microsecond fluctuations in geomagnetic field due to lightning. It is mentioned that this formulation has its application within corona envelope wherein the Lorentz force has to be accounted as an additional body force during the magneto hydrodynamic analysis of the atmospheric momentum equations. The sixth paper discusses the variability of All India summer monsoon rainfall with respect to large-scale QBO, ENSO and Climate Change impacts. This study examines the seasonal, inter-annual and long-term variability of monsoon rainfall using all India rainfall data during June-September for the period 1881-2010. This article discusses some of the processes arising out of SST cooling, the westerly/easterly phases of the QBO and the ENSO phases. The last paper in this issue is on the recent performance of agrometeorological services for Uttar Pradesh. In this paper, the authors have discussed deterministic quantitative district level weather forecast for 5 days issued on operational basis for the agriculture sector since 1st June, 2008.

It has been our pleasure to interact with the authors and reviewers in the process of preparing last several issues of VayuMandal. It has been a learning process for us too. It should be noted that this is the last issue of VayuMandal coming out of this group of editors. We wholeheartedly thank the experts for cooperating with us in reviewing the papers on time. Thanks are also due to all the authors who contributed their valuable scientific results for publication in VayuMandal. Above all, we thank the last successive IMS NCs for relying on us and bestowing the responsibility of publishing VayuMandal. We also like to congratulate the new standing committee of VayuMandal and wish them all the best. We shall be happy to extend our cooperation and support to the new editorial team.

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