



CONTENTS

From the President's Desk Editors' Page

1. Earthquake monitoring over Indian domain 1
Priyanka Kumari, Ram Kumar Giri, Sunil Kumar & Laxmi Pathak
2. INSAT geostationary meteorological satellite program and current Meteorological data processing system for INSAT-3D/3DR/3DS at India Meteorological Department 11
R.K. Giri, Satya Prakash, Ramashray Yadav, and K.C. Saikrishnan
3. Correlations of Particulate Matter and Associated Weather Factors in the Capital City of the State of Bihar, India: An Analysis and Prediction 29
Anand Shankar, Ashish Kumar, Deepak Kumar Singh, Uttam Kumar, Neha Kumari, Saurabh Kumar, Kunal Kaushik, Dr. Dharma Raju, Vivek Sinha and Sandeep Kumar
4. Atmospheric aerosols and their effects on radiation, clouds, and precipitation in different meteorological scenarios 50
Jagabandhu Panda, Ankan Sarkar, and Ram Kumar Giri
5. The 205 MHz ST Radar at Cochin: A National facility to probe the Tropical Atmosphere and Ionosphere 88
Rejoy Rebello, Rakesh V, Sarathkrishna S, Titu K Samson, Sivan C, Abhiram Nirmal C S, Manoj. M. G, Ajil. Kottayil, Syam Sankar, Vijaykumar P, Sunitha Nair, K. Mohankumar, P. Mohanan, Santosh K R, K. Vasudevan, K. Satheesan and S. Abhilash
6. Atmospheric and Ocean characteristics associated with NIO tropical cyclones: A comprehensive review vis-à-vis the intensity and movement 112
Jagabandhu Panda, Debashis Paul, Ashish Routray and Ram Kumar Giri
7. Report on Extreme Weather Events during January-May 2022 138
D. R. Pattanaik
8. A Report from Indian Meteorological Society and its Local Chapters 150
9. New Members of IMS 168