



Disaster Prevention Research Institute, Kyoto University— Monitoring and Modelling Volcanic Ash Transport and Deposition

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Message from the Guest Editors

Volcanic eruptions have a severe impact on surrounding communities, including a reduction in agricultural output, disruption of airline, road, and railway traffic, and adverse health effects on residents living around volcanoes. To mitigate the impacts, forecasting volcanic ash dispersal and deposition is of utmost importance. Volcanologists have made an effort to forecast volcanic eruptions and to further understand the deposition of volcanic ash. However, volcanic ash particles are strongly affected by meteorological factors, in particular by wind during processes of growth of volcanic plumes, transport and dispersal, and sedimentation. Recent advances in meteorological research and observational technology have helped to improve forecasting volcanic ash dispersal and deposition. This Special Issue is expected to advance our understanding of monitoring, modeling, and forecasting volcanic ash transport in the atmosphere and deposition on the ground. Therefore, we invite authors to submit original and review articles that aim to study the dispersal of volcanic ash, including characteristics of volcanic eruption as a source of volcanic ash and its social impact.





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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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