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Natural Sources Aerosol Remote Monitoring

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Message from the Guest Editors

Atmospheric aerosol particles from both anthropogenic and natural sources represent major uncertainties in our knowledge of atmospheric processes and of the Earth radiative balance. Although there is a strong interest in the study of anthropic and natural components, the weight of the latter is still poorly investigated, which causes an unsatisfactory understanding of the interactions of natural aerosols in the terrestrial ecosystem and in their radiative effects. In particular, natural sources have a high contribution to background aerosol concentrations, and therefore, their accurate quantification is essential for the study of the mechanisms, interactions and impact of anthropogenic aerosols within the Earth system. In addition, this background is variable not only due to the uncertainties introduced by the unpredictability of natural events but also as a consequence of human intervention. This Special Issue aims to combine the contributions of various studies, which, through the use of remote sensing techniques, investigate aerosols of natural origin and increase knowledge about their properties and mechanisms.

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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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