



Remote Observation of Volcanic Emissions and Their Impacts on the Atmosphere, Biosphere and Environment

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Message from the Guest Editors

Volcanic eruptions are complex time-dependent events with impacts that can extend at different spatial and temporal scales. Over the years, remote sensing technology advances and know-how have led to improvement of both the availability and the quality of the observations, thus allowing better recognition of precursors of eruption onset and better assessment of volcanic activity. Volcanic plumes, once produced from crater gas and particulate emissions, can impact air quality, cloud formation, and radiative balance at different spatial-temporal scales. Volcanic plumes can travel from close-range to global distances, while undergoing chemical and microphysical changes. The remote observation of the dispersion/evolution of volcanic plumes is key to understanding their downwind impacts.

This Special Issue aims at presenting the state of the art of and recent advancements in volcano remote sensing, as well as multidisciplinary volcano studies coming from the exploitation of these remote sensing methodologies, with a special focus on volcanic emissions and dispersing/evolving plumes, and the impacts of volcanic pollutants on the atmosphere, the biosphere, and the environment.





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Message from the Editor-in-Chief

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