

Special Issue

Lithosphere-Atmosphere Coupling during Natural Hazard

Message from the Guest Editors

The lithosphere-atmosphere interaction processes have become an essential topic for natural hazards. The energy exchange of heat, geochemical materials, electromagnetic emissions, vibrations, and perturbations among different layers, can affect the principal atmospheric parameters such as temperature, pressure, conductivity, and so on. This Special Issue will be focused on the effects on the atmospheric dynamics due to natural impulsive events as seismic events, volcanic eruptions, tsunamis, etc. detected from a variety of ground- and space-based parameters, such as vertical temperature/pressure profile, atmospheric conductivity, acoustic gravity wave emission, underground water, soil gas, infrared, hyperspectral gas, etc. Numerical and analytical models as well as case or statistical study are encouraged to improve the process analysis and basic coupling theory.

Guest Editors

Prof. Dr. Vincenzo Carbone

Prof. Dr. Roberto Battiston

Dr. Mirko Piersanti

Deadline for manuscript submissions

closed (15 August 2022)



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About the Journal

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!

Editor-in-Chief

Dr. Daniele Contini

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