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Detection of Perturbations Associated with Earthquakes during the LAIC Process Based on the Multi-Source Data

Guest Editors:

Dr. Rui Yan

Dr. Michel Parrot

Prof. Dr. Zeren Zhima

Dr. Dedalo Marchetti

Deadline for manuscript submissions:
closed (23 February 2024)

Message from the Guest Editors

The earthquake preparation phase has an influence on different physical and chemical processes from the lithosphere to the atmosphere and ionosphere. Much evidence on possible seismo-ionospheric precursor signatures has been accumulated after extensive studies have been carried out. The lithosphere–atmosphere–ionosphere coupling (LAIC) mechanism is widely used to explain the variation of different kinds of parameters in relation to major seismic activity. It is very necessary to carry out seismic related research based on these data, which will promote the further development of this field.

In this Special Issue, we are committed to further studying seismic anomalies during the LAIC process based on multi-source observations from satellites or from the ground, including electromagnetic, infrared hyperspectrum, GNSS occultation, and other observations, and exploring their regularities and correlation with earthquake seismogenic processes to provide more data and theoretical support for earthquake monitoring and prediction.

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Editor-in-Chief

Prof. Dr. Ilias Kavouras
Environmental, Occupational, and Geospatial Health Sciences, CUNY School of Public Health, New York, NY 10027, USA

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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Contact Us

Atmosphere Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/atmosphere
atmosphere@mdpi.com
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