Special Issue

Monitoring and Forecasting of Ionospheric Space Weather

Message from the Guest Editor

This issue aims to report progress in monitoring and forecasting ionospheric space weather, mainly the ionospheric storm and irregularity based on different observations, including ground- and space-based measurements. New techniques from both theoretical and mathematical aspects such as the coupling model and latest deep learning method and observational results from recent well-known ionospheric exploration missions are encouraged to be introduced. This issue will pay more attention on the regional difference of ionospheric variation both in the geomagnetic quiet and disturbed condition, with the aim to reveal the properties of mid-small scale ionospheric spatial and temporal variations and the physical mechanisms behind them. The research can also extend to other planets' ionosphere.

Guest Editor

Dr. Biqiang Zhao

Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing 100029, China

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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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!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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