

Special Issue

Global Space Weather Variability with a Specific Focus on Ionospheric Climatological Forecasting and Predictive Modelling

Message from the Guest Editors

We are excited to invite you to submit your manuscript to our Special Issue in the open access journal *Atmosphere*, titled “Global Space Weather Variability with a Specific Focus on Ionospheric Climatological Forecasting and Predictive Modelling”. This Special Issue aims to highlight recent advancements in the study of global ionospheric variability, particularly regarding geophysical parameters and space weather, with a specific focus on ionospheric climatological forecasting and predictive modelling. We welcome contributions that explore ionospheric variability across wide spatial and temporal scales, influenced by different geophysical aspects and varying geomagnetic conditions, with a particular emphasis on ionospheric climatological forecasting and predictive models. Understanding ionospheric characteristics is vital for climatology and forecasting, aiding in the mitigation of challenges faced by modern technologies reliant on radio communication and navigation systems.

Guest Editors

Dr. Krishnendu Sekhar Paul

Frederick Research Center, Nicosia 1036, Cyprus

Prof. Dr. Stelios M. Potirakis

1. Department of Electrical and Electronics Engineering, University of West Attica, Ancient Olive Grove Campus, GR-12241 Aigaleo, Greece

2. Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens, Metaxa and Vasileos Pavlou, GR-15236 Penteli, Greece

Deadline for manuscript submissions

closed (20 February 2026)



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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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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

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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