

## Special Issue

# Satellite Remote Sensing Applied in Atmosphere (3rd Edition)

### Message from the Guest Editors

Satellite remote sensing has increasing potential applications in a wide range of atmospheric sciences, thanks to continuous improvements in modern satellite sensors, which provide high-quality data and products and are capable of monitoring even the most remote areas across the world.

The Earth's atmosphere is where weather and climate are created and evolve, and changes in the atmospheric composition modulate weather phenomena. Aerosols have catalytic impacts on the solar radiation budget, cloud formation and microphysics, affecting the weather and climate worldwide, and therefore need to be efficiently and accurately monitored from space. The accuracy assessment of any type of satellite data and products, spatiotemporal analyses in different topics of atmospheric sciences and meteorology, relative satellite-based applications and innovative techniques and methods that promote satellite remote sensing in the atmosphere and for weather events are challenging research areas.

This Special Issue welcomes studies that address these topics, based on remotely sensed data and products derived from satellites, and authors are invited to submit and publish their research findings.

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### Guest Editors

Dr. Stavros Kolios

Department of Aerospace Science and Technology, National and Kapodistrian University of Athens, 10679 Athens, Greece

Dr. Nikos Hatzianastassiou

Laboratory of Meteorology, Physics Department, University of Ioannina, 45110 Ioannina, Greece

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### Deadline for manuscript submissions

20 October 2025



## Atmosphere

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*Atmosphere*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[atmosphere@mdpi.com](mailto: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!

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### 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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