

Special Issue

Atmospheric and Ocean Optics: Atmospheric Physics IV

Message from the Guest Editors

This Special Issue aims to collect papers presented at the 28th International Conference “Atmospheric and Ocean Optics. Atmospheric Physics”. We invite researchers to contribute original research papers dealing with all aspects of atmospheric and ocean optics and atmospheric physics:

- Molecular spectroscopy of atmospheric gases;
- Radiative regime and climate problems;
- Models and databases for the problems of atmospheric optics and physics;
- Optical radiation propagation in the atmosphere and ocean;
- Nonlinear effects at radiation propagation in the atmosphere and water media;
- Monitoring of variability in sea water bio-optics under the influence of climate and anthropogenic impacts;
- Structure and dynamics of the lower and middle atmosphere;
- Dynamics of the atmosphere and climate of the Asian region;
- Climatological studies of the upper atmosphere using GNSS;
- The relationship processes in the lithosphere, hydrosphere, atmosphere, ionosphere, and magnetosphere;
- Long-range atmospheric transport of particulate matter;
- Black carbon in the atmosphere in the Arctic and Subarctic.

Guest Editors

Dr. Oleg Romanovskii

Dr. Gennadii Matvienko

Dr. Otto Chkhetiani

Dr. Vladimir P. Shevchenko

Deadline for manuscript submissions

closed (31 December 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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