atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 4.6

Mesosphere and Lower Thermosphere: New Diagnostic Methods and Recent Observations

Guest Editors:

Dr. Nataliya V. Bakhmetieva
Radiophysical Research Institute, Lobachevski State University of Nizhni Novgorod, 603950 Nizhni Novgorod, Russia

Dr. Gennadiy I. Grigoriev
Radiophysical Research Institute, Lobachevski State University of Nizhni Novgorod, 603105 Nizhni Novgorod, Russia

Deadline for manuscript submissions:
closed (31 August 2020)

Message from the Guest Editors

The aim of this Special Issue is to present the results of recent studies of the mesosphere and lower thermosphere (MLT), including new research techniques. Research on the development of new methods for MLT diagnostics and new observation results are welcome. We hope to receive manuscripts on diagnostics of the parameters of neutral and plasma components of the MLT region. We encourage papers on the study of the neutral temperature, density, parameters of turbulence and atmospheric waves, and sporadic layers of ionization. Theoretical studies in these areas are also suitable. We offer the following topics (not an exhaustive list):

- New methods for MLT research;
- Exposure to powerful HF radio emission, including APIs creation;
- Measurement of the neutral atmosphere parameters;
- Spatial-temporal dependences of the MLT neutral temperature and density;
- MLT dynamics: velocities of regular and turbulent motions;
- Atmospheric turbulence parameters;
- Acoustic-gravity waves;
- Ionized layers in the lower thermosphere.

atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 4.6

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.
Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
𝕏@Atmosphere_MDPI