



Atmospheric Turbulence Measurements and Calibration

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

You know this perfectly well that turbulence as a phenomenon still remains an unsolved scientific problem, both from the point of view of mathematics and from the point of view of physics. At the turn of the millennium, among the ten unsolved problems of the 20th century, the problem of describing the motion of fluid and gas was named. From the standpoint of our journal, we single out the problem of turbulence precisely as the natural state of the atmosphere. For the atmosphere of the Earth, turbulence, as a phenomenon affecting the transfer of heat and angular momentum, remains constant in the list of the most important problems. Many instruments and tools installed in different parts of the world are constantly monitored, collecting data and, thus, providing material for building models and theories. These tools require constant development, their mutual coordination and calibration. Astronomers, geophysicists, acoustics, experts in weather forecasting, they are all constantly associated with the manifestations of this phenomenon, or more correctly, the state of our atmosphere as a gaseous medium, which is in a turbulent state.

Dr. Vladimir Lukin
Guest Editor





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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!

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