Special Issue

Changes in the Composition of the Atmosphere

Message from the Guest Editor

Atmospheric concentrations can be altered by natural climatic and dynamical variability (e.g. volcanoes, quasi-periodic oscillations or the solar cycle) and by human activity (e.g. emissions from fossil fuel combustion and industry, biomass burning or land-use changes). In turn, changes in atmospheric concentrations can have important effects on climate change, ecosystems and human health. Atmospheric constituents can be measured in the atmosphere by ground-based instruments, balloons, aircraft and satellites, and can be simulated by numerical models. We invite you to submit high-quality research studies addressing changes in the composition of the atmosphere in the short- and long-term and space scales with emphasis on clouds, greenhouse gases, aerosols, ozone, and ultraviolet radiation, the impact of natural climatic oscillations and atmospheric pollution. Contributions based on ground-based measurements, satellite observations and model simulations addressing atmospheric composition change in the past, present and future are welcome.

Guest Editor

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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

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