Special Issue

Ozone and Stratospheric Dynamics

Message from the Guest Editor

Ozone is a very important trace gas in the atmosphere, as it protects the biota from harmful ultraviolent solar radiation. The greatest challenge in ozone research was the discovery of the ozone hole in the Southern Hemisphere. Subsequently, ozone recovery. The behavior of the ozone layer is also influenced by greenhouse warming in the troposphere. In this Special Issue, we shall accept papers focused on ozone layer behavior and its connection to the changes in atmospheric circulation and decreasing amount of the ozone-depleted substances. These papers will be based on ozone observations and model studies. Changes in atmospheric circulation affect ozone behavior in the atmosphere. Ozone observations, however, do not have sufficient density and coverage. By contrast, data from reanalysis have homogeneous spatial and temporal coverage, but there are discontinuities in them due to changes in assimilation procedures and due to the increasing amount of observational data used in these procedures. Therefore, another topic of interest for this Special Issue shall be whether these reanalysis data are suitable for trend analysis or not.

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!

Editor-in-Chief

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