

Special Issue on
Stratospheric Processes and Their Role in Climate

CALL FOR PAPERS

The stratosphere is the transition region which interacts with the climate systems in the lower atmosphere and the richly ionized upper atmosphere.

Therefore, this part of the atmosphere involves a long list of challenging scientific problems of basic research including its thermal structure, energetics, composition, dynamics, chemistry, and their roles in regulating the climate of the Earth.

We invite authors to contribute original research articles as well as review articles that will illustrate and stimulate the continuing effort to understand the physical, radiative, dynamical, and chemical processes in the stratosphere and their role in climate.

Potential topics include but are not limited to the following:

- ▶ Characteristics of mass and energy exchange between the mesosphere, stratosphere, and troposphere
- ▶ Formation, change mechanism, and climatic effect of ozone hole in polar regions and ozone valley over the Tibetan Plateau
- ▶ Influence of atmospheric composition trends on the change of thermal structure and atmospheric circulation
- ▶ Effect of solar activity on climate through variation of ozone sphere and ionosphere
- ▶ Characteristics of planetary wave and gravity wave transport and its role in climate change
- ▶ Radiative, dynamic, chemical, and electric processes coupling in the atmosphere

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/amete/sp/>.

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