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Extraterrestrial Influences on Remote Sensing in the Earth's Atmosphere

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Message from the Guest Editors

Dear Colleagues,

Propagation properties of the electromagnetic signals used for different kinds of remote sensing depends on the atmospheric parameters, such as the electron density and temperature. Spatial and temporal variations of these parameters affect signal propagations and, consequently, corresponding applications of the used technique such as observations and positioning. One of the most important sources of the atmospheric disturbances is solar electromagnetic and charged particles radiation. In addition, cosmic rays, including both electromagnetic and particle radiation, can provide enough intensive perturbations of the outer Earth's layer that can affect the signal propagation path. The sources of these perturbations can be relatively close to our planet, but also can be located in the deep Universe. Perturber intensities, lengths and locations in the Earth's atmosphere can be quite different, which can induce various signal deviations.

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Message from the Editor-in-Chief

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