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Satellite Remote Sensing for Tropical Meteorology and Climatology

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Message from the Guest Editor

This Special Issue focuses on remotely-sensed datasets and the information they have revealed that has advanced the fields of tropical meteorology and climatology. A key focus is on processes that contribute to precipitation in the tropics across scales ranging from cloud microphysical properties and the distribution of water vapor, dust, and aerosols to well-organized precipitation systems such as tropical cyclones and the intertropical convergence zone. Other areas of emphasis include studies that improve research and forecast models including techniques to downscale precipitation or assimilation remotely sensed precipitation into numerical weather prediction models. Results from field campaigns undertaken in the tropics to collect data about the atmosphere and interactions with the sea and land surfaces can be included. Studies may compare observations across different platforms as well as use remotely-sensed datasets for model validation.

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Message from the Editorial Board

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