



Estimating Meteorological Variables by Remote Sensing Data

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Message from the Guest Editors

Meteorological variables are key parameters in most environmental studies. Traditionally, these data have been obtained at ground-level meteorological stations, but although these in situ data are invaluable, continuous, and precise, they are also local and spatially sparse. Remote sensing allows obtaining these variables at a regular spatial scale together to a high/medium temporal scale. This means that it is crucial to do studies and maps at regional and global scales which will help us to understand the changes produced in the Earth and how they relate to each other. Remote-sensing techniques have been demonstrated to have a high potential for estimating meteorological variables such as surface air temperature, water vapour pressure, humidity, solar surface radiation, and precipitation, and also derived variables such as albedo and evapotranspiration. However, new methods and algorithms and more calibration/validation works and ideas about new optical, thermal, and radar sensors are necessary to improve the estimation of these variables by remote sensing, making remote-sensing techniques really operational.





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Message from the Editor-in-Chief

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