Special Issue

Recent Advance in Energy Budget and Earth-Atmosphere Coupling

Message from the Guest Editors

Land surface can be measured with an albedometer in field scale, and estimated with multiple sources of optical remote sensing data, including field observation, unmanned aerial vehicles (UAV), and satellite sensors. Albedo retrieval algorithm differs from sensor to sensor. Research related to land surface albedo includes, but is not limited to, data acquisition, land surface bidirectional reflectance distribution function (BRDF) modeling, validation, time series analysis, and data application in short/long term and on a global/regional scale. The aim of this Special Issue is to present latest research of land surface albedo estimation algorithms, product validation strategies, and scale issue in data acquisition and assessment, applying land surface albedo in addressing urban, climate, environmental, and social challenges. The Special Issue also encourages related studies that contribute to the land surface energy budget.

Guest Editors

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Prof. Dr. Xiaodan Wu

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Deadline for manuscript submissions

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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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