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Understanding Surface Water Dynamics Based on Multisource Remote Sensing Data

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Message from the Guest Editors

Surface water, presenting in liquid form as lakes, reservoirs and rivers, or in solid form as snow, glaciers and river/lake ices, represents a critical freshwater resource. In either form, surface water plays an essential role in earth systems. However, its presence and dynamics are yet not fully understood at regional to global scales.

Remote sensing provides an efficient approach for estimating the areal extent and water content of both liquid and solid forms. Optical and microwave satellite remote sensing offers the potential to address knowledge gaps in surface water entities, including rivers, lakes, reservoirs and wetlands. Multi-source remote sensing data can not only facilitate an improved understanding of the long term variability and trends of surface water dynamics, but can also provide observations on a near real-time basis for monitoring and prediction, particularly in data-sparse regions [...]

For further reading, please follow the link to the Special Issue Website at:

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Special Issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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