



Satellite Remote Sensing of Weather, Water and Climate Couplings and Phenomena (Second Edition)

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Message from the Guest Editors

Satellite remote sensing presents a robust tool with which to address and unravel coupled weather, water, and climate phenomena at multiple scales. The temporal and spatial scales of atmospheric, oceanic, and hydrologic environmental phenomena span the period range from isolated events, particularly extreme events, to that of sub-seasonal variability in the Earth's interactively coupled atmospheric, oceanic, and hydrologic systems. There are significant associated implications for human and ecological systems, and these have become an emerging topic around which issues of societal and economic value and sustainability can be examined and used for societal responses and planning. In this issue, remote sensing tools comprehensively address these phenomena because of the incredible spatial synoptic coverage that they provide. When coupled with environmental observational datasets and mathematical modeling outputs, satellite remote sensing couples observed and modeled environmental processes with societal impacts. Moreover, satellite data used for numerical model validation are now being assimilated into event prognostications.





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Message from the Editor-in-Chief

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