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Ecohydrologic Feedbacks between Vegetation, Soil, and Climate

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Message from the Guest Editors

Patchy attributes of water-limited lands provide unique landscapes for studying the dynamic interaction of structural and functional connectivity that governs hillslope hydrologic and erosion processes. Isolated bare patches are sources for runoff and soil detachment by rainsplash and sheetflow. Vegetated patches and ground cover intercept rainfall and overland flow, promote infiltration and sediment and nutrient retention, and protect the soil surface from raindrops and detachment by flow. Plant community degradation often increases runoff and soil loss through the fragmentation of the vegetation and ground cover patch-structure. Such increases in structural and functional connectivity often propagate long-term site degradation and are difficult to reverse. Disturbances can potentially serve as ecohydrologic threshold reversal mechanisms by which the vegetation structure and ecohydrologic function are reset through ensuing plant community and ecohydrologic dynamics. We seek papers that examine key ecohydrologic feedbacks between vegetation, soil, and climate and are particularly interested in how such relationships are affected by disturbances, immediate or transitional.



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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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