



Remote Sensing of Dryland River Systems

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Message from the Guest Editors

Dryland river systems are the subject of growing research attention owing to their scientific importance and significance for environmental management. Dryland rivers are fundamentally important for ecosystem services in these moisture-stressed regions and for the study of ancient (especially pre-vegetation) rock records and extraterrestrial surface environments.

However, due to the notorious difficulties of access in remote drylands, direct observations or long-term monitoring of dryland rivers are commonly impractical or costly. Remote sensing techniques therefore provide valuable opportunities for investigating these rivers not only in real-time but also by enabling repeat observations over the long term.

Recently, the increasing availability of remote sensing datasets have significantly enriched data pools, and powerful new analytical methods have been developed to characterize dryland river systems with increasing resolution and accuracy. This Special Issue will demonstrate how advances in remote sensing are contributing to a better understanding of dryland river systems, particularly their geomorphology, topography and associated flood dynamics.





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Message from the Editor-in-Chief

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