Featured Collection Introduction: The Emerging Science of Aquatic System Connectivity II

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Summary and Outlook

Combined, the two featured collections on The Emerging Science of Aquatic System Connectivity add 19 papers to the growing body of aquatic system science literature. These papers are representative of the depth and breadth of this growing interdisciplinary community, where studies span spatial scales (i.e., individual wetlands to watersheds), hydrologic units (e.g., upland wetlands to downstream waters and natural to engineered systems), and the many dimensions of connectivity (i.e., physical, chemical, ecological, and biological). In this second featured collection, papers focused on modeling aquatic system connectivity of both upland and floodplain wetlands, and examining the role of connectivity on water quality and biological function. In the coming decades, managing and restoring our aquatic systems will continue to be a grand challenge, and the community of researchers investigating aquatic system connectivity must continue to provide actionable and science-based solutions to meet those challenges. This collection is an effort aimed at fostering an interdisciplinary dialogue on how best to address aquatic system connectivity concerns for restoring and managing our ecosystems.

Read the article in *Journal of the American Water Resources Association* [1].

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