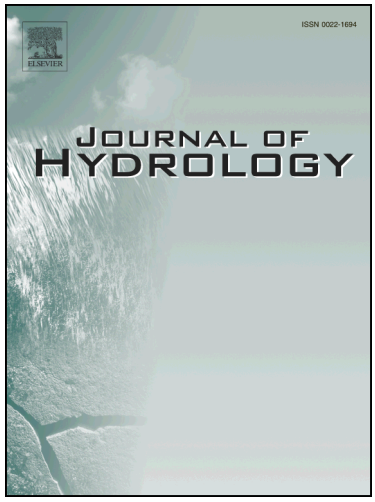

Research papers

Correlation between Hydrological Drought, Climatic Factors, Reservoir Operation, and Vegetation Cover in the Xijiang Basin, South China

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Correlation between Hydrological Drought, Climatic Factors, Reservoir Operation, and Vegetation Cover in the Xijiang Basin, South China

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Abstract

The Xijiang River is known as the Golden Watercourse because of its role in the development of the Pearl River Delta Regional Economic System in China, which was made possible by its abundant water resources. At present, the hydrological regime of the Xijiang River has now become complicated, the water shortages and successive droughts pose a threat to regional economic development. However, the complexity of hydroclimatological processes with emphasizes on drought has not been comprehended. In order to effectively predict and develop the adaptation strategies to cope with the water scarcity damage caused by hydrological droughts, it is essential to thoroughly analyze the relationship between hydrological droughts and pre/post-dependent hydroclimatological factors. To

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