Characteristic and pattern of urban water cycle: theory

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\textbf{A B S T R A C T}

Urban water cycle is one of the foremost contemporary research topics in hydrological research, and it forms the foundation of urban water resources management. This study serves to provide better analysis and understanding of the changes in urban water cycle such as number of factors, complexity of processes, magnitude of impact, etc. It serves to sum up the integration of nature and anthropogenic water cycle, in the form of a bi-modal urban water cycle model. The work focuses on the difference and compatibility of scales and methodology in urban hydrological processes, in order to highlight the gaps in urban water cycle research. This includes developing a unique model to simulate the characteristics and evolution of processes in urban areas, with the intention of supporting future urban water resources management.

\textit{Keywords:} Water cycle; Urban; Hydrological model; Water resources

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