



Climate and the Hydrological Cycle (IAHS Proceedings & Reports) (Iahs Special Publication)

M. Bierkens, Han Dolman, Peter Troch

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An in-depth overview of the role of the hydrological cycle within the climate system, including climate change impacts on hydrological reserves and fluxes, as well as the controls of terrestrial hydrology on regional and global climatology. This book fills the need for a text about the interface between the two disciplines: Role of the hydrological cycle in the climate system; Evaporation; Physics of evaporation and atmospheric boundary layers; Precipitation physics and rainfall observation; Land surface hydrology; Land surface schemes and climate models; Arctic and snow hydrology; Dynamics of glaciers, ice sheets and global sea level; Feedback mechanisms: precipitation and soil moisture; Feedback mechanisms: land use, hydrology and carbon; Palaeohydrology: an introduction; Groundwater palaeohydrology; Global warming and the acceleration of the hydrological cycle; Climate change and hydrological impact studies; and Remote sensing for hydrological studies.

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