

The RAL Seminar Series



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Flash Floods: Understanding the Runoff General Discussions, Generation Processes and the Use of Satellite-Rainfall in Hydrologic Simulations

by

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Room 3107, 10:00 a.m.

Flash floods pose a threat to human lives and economies worldwide. The tremendous societal and economic impact of this natural hazard necessitates the development of accurate warning systems that can help mitigate the flash flood risk. The inadequate understanding of the hydrologic processes leading to flash floods and the lack of observations associated with flash flood inducing storms are the main reasons that hamper the development of effective monitoring systems. The objectives of this study are to: (a) advance our understanding of the physical mechanisms and controls of runoff generation during flash floods, and (b) investigate the use of space-based precipitation observations as a way of improving our current monitoring strategies over remote and complex environments.