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Commercial Microwave Links for Urban Rainfall-runoff Modelling

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Urban catchments are characterized by diverse land cover with large ratio of impervious surfaces on which rainfall-runoff is generated extremely fast. This possess high requirements on spatio-temporal resolution of rainfall data needed for reliable runoff predictions. The contribution summarizes results from three-years experiment evaluating reliability of rainfall-runoff simulations at small urban catchment using rainfall observations from Commercial Microwave Links (CMLs). In addition, system for providing real-time CML-based rainfall product at city scale is presented. Finally, sustainability of the CML-based rainfall observation system is discussed with focus on challenges related to the fast development of communication networks.

Authors: BARES, Vojtech (Czech Technical University in Prague); FENCL, Martin (Czech Technical University in Prague); PASTOREK, Jaroslav (Czech Technical University in Prague); MUDROCH, Martin (Czech Technical University in Prague); PECHAC, Pavel (Czech Technical University in Prague)

Presenter: FENCL, Martin (Czech Technical University in Prague)

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