On comparing NWP and radar nowcast models for forecasting of urban runoff

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Abstract The paper compares quantitative precipitation forecasts using weather radars and numerical weather prediction models. In order to test forecasts under different conditions, point-comparisons with quantitative radar precipitation estimates and raingauges are presented. Furthermore, spatial comparisons of forecasts and observations have shown good results during stratiform conditions, but more scattered results during convective conditions. Finally, the potential for applying forecasts as input to urban drainage models is investigated. Results prove promising.

Key words numerical weather prediction; radar nowcasting; QPE; QPF; urban flow forecasting