The use of radar-based QPE in the high resolution QPF verification

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The contribution summarizes the results we obtained at the verification of the QPF produced by ALADIN CZ operational NWP model. The operational product MERGE, which merges the radar based rain rate with the data from operational gauge stations, was employed to obtain verification data. Traditional and fuzzy verification techniques were applied to the verification. We present the analysis of MERGE data and the verification results for the operational QPF. (i) 3h rainfalls from convective flash flood period in 2009 verified before and after ALADIN CZ modification. We compare the verification results to prove a successful modification of convection parameterization. The forecasts are stratified according to the convective forcing and the verification results are presented in single forcing classes. (ii) Operational QPF for the summer period 2013 after the ALADIN modification. The data include the 2013 flood in the central Europe. We discuss the use of the verification results to improve the model, and to give intelligible information about the QPF skill to the users.