

ON PRECIPITATION EVALUATION UNCERTAINTIES

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Abstract: One of the main objectives of numerical weather prediction (NWP) models is reliable forecasting of heavy rain events. This paper discusses problems and strategies of evaluation of daily rain forecasting with operationally available, real time rain station data in Austria. The focus is on spatial representativity of point data and the advantages of regionalization. Additionally, we demonstrate the limitations of linear regression type regionalizations such as Kriging and promote regionalization by stochastic simulations conditioned to the available observations that represents natural field variability more realistically. Our demonstration NWP forecasts are MAP SOP hindcasts by the limited area model ALADIN as is operational in Austria.