



Seasonal variation of rainfall variogram parameters in The Netherlands

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We present a geostatistical analysis of rainfall based on one full year of data from a high-resolution network of 30 tipping bucket rain gauges (at 25 locations) over an area of 15 x 15 km in The Netherlands. Careful quality control reveals that only 10 gauges have functioned properly and without interruption during the entire year. Empirical mean semi-variances are determined for time intervals from 5 min up to one day. These are subsequently fitted with spherical variogram models with time-varying parameters. The parameters are found to exhibit a pronounced seasonality, which we try to link to the climatology of precipitation over The Netherlands.