Spatial Distribution of Rainfall Events in Selangor, Malaysia

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Abstract. Urbanization changes the hydrology, geomorphology, increasing the stormwater runoff, water quality and sediment transport in rivers. This study will examine the impact of urbanization on rainfall events in the state of Selangor, Malaysia. This site was selected because it is one of the most developed areas of Malaysia. The study will compare rainfall events in highly urbanized area and rural area for the past 39 years. The number of rainfall events, average rainfall intensity for every event and total annual rainfall are among the parameters that will be analyzed in this study. Additionally, monthly and annual spatial variation of rainfall events in Selangor will be characterized. Probability density function and density function for each station will be plotted to give a general overview of the distribution function.