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Autore	Ehmele Florian Tim
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Sommario/riassunto	The risk estimation of precipitation events with high recurrence periods is difficult due to the limited time scale with meteorological observations. A homogenous distribution of rain gauges, especially in mountainous terrain, is also hardly convertible. In this study an analytical model with a high spatial resolution, designed for stochastic simulations of flood-related precipitation, is developed, evaluated and applied to different investigation areas in Germany.