



*Supplement of*

## **Geostatistical upscaling of rain gauge data to support uncertainty analysis of lumped urban hydrological models**

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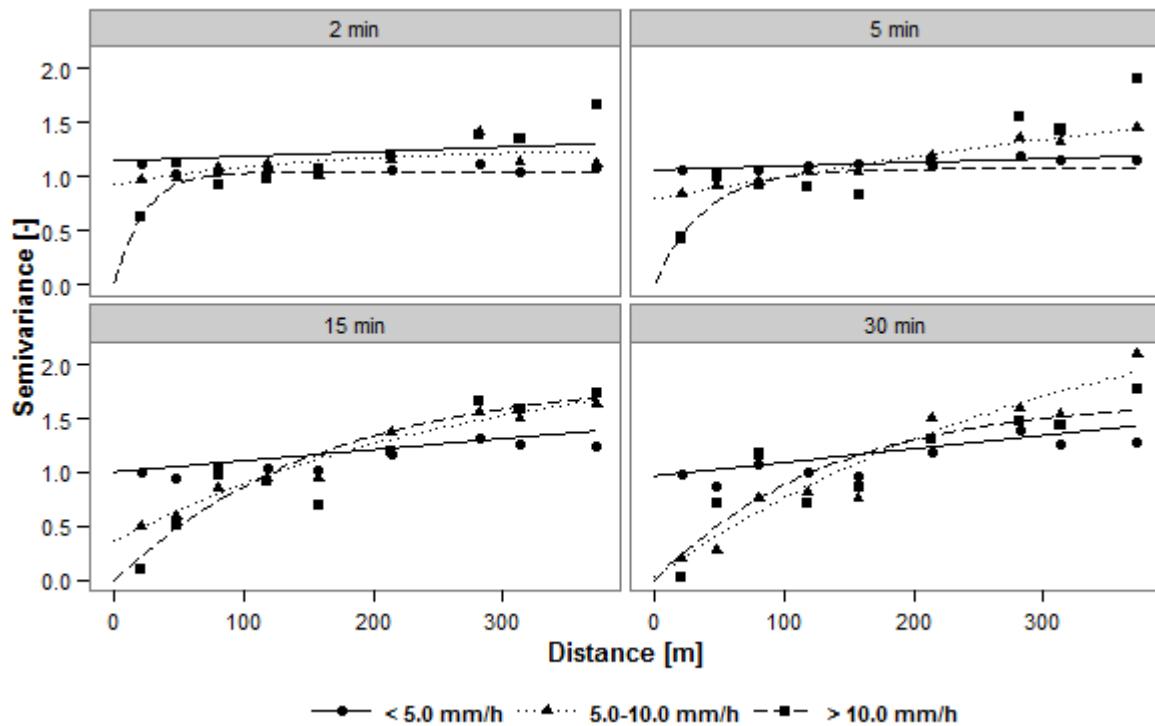


Figure S1: Calculated variograms for each intensity class within each temporal averaging interval using randomly selected 80% of the data

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Table S1: Summary of computational power required for spatial stochastic simulation.

Computer used	Area (m <sup>2</sup> )	Grid size (m <sup>2</sup> )	number of simulations	Computational time per time instant (s)
<b>Core i5, 1.7 GHz, 4 processors , 8 GB RAM</b>	200 × 400*	25 × 25*	500*	10*
	200 × 400	25 × 25	1000	20
	200 × 400	10 × 10	500	60

\*This configuration is used in this study.

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