

Interactive comment on “Conditional simulation of surface rainfall fields using modified phase annealing” by Jieru Yan et al.

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We thank the anonymous reviewer for the suggestions. And practically we agree with all of them. As for the third suggestion from the reviewer "the proposed methodology is only suitable for hydrological modeling if temporal sequence of several time steps can be simulated", which is true and the proposed methodology is capable of fulfilling the tasks provided that for every time step of 15 min, 30 min or 60 min accumulation time, (1) the corresponding radar quantile map is valid and (2) the rain-gauge observations are accurate. Besides, to increase the estimation credibility of the methodology, it is recommended that the rain-gauges are uniformly distributed in the domain of interest and a denser network of rain-gauges is also favorable (see AC2 Q.2 for details). The requirements are not that stringent and it is possible to meet all of them in many urban-

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ized areas. And we agree with the reviewer that the above could be mentioned in the manuscript to convince potential users.

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