

## ***Interactive comment on “Improving uncertainty estimation in urban hydrological modeling by statistically describing bias” by D. Del Giudice et al.***

### **Anonymous Referee #1**

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The paper is well written and structured. In my opinion, it provides a coherent and statistically sounding methodology for estimating uncertainty components in model predictions, along with useful discussion and indications for its general application. I just have a few minor remarks and comments:

- 1) Figures should be numbered according to their order of appearance in the text (Figures 4 and 5 are mentioned before Figure 3).
- 2) Figure 4, caption: “ The observation errors, being very small for this scale (..), the last two uncertainty bands overlap and only the intermediate grey is visible”. This sentence

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is not much clear, please rephrase.

- 3) Section 3.1. I would suggest to add a basic description of the calibration and validation rainfall events (e.g. duration, total precipitation and peak intensity).
- 4) Section 5.2. It would be interesting to add some discussion on how physical parameters of the catchment (e.g. size, percentage of impervious areas) could influence uncertainty estimation.

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