

## ***Interactive comment on “Influence of rainfall observation network on model calibration and application” by A. Bárdossy and T. Das***

**A. Bárdossy and T. Das**

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# 1 (a) and (b) The authors were tried to put effort to address the recommendations in the introduction part of the revised manuscript.

# 2 (a) More information is added in the revised version. (b) The idea of the work was to show the impact of the rain gauge densities on the simulated discharges of a rainfall-runoff model. As an example only 7 network densities were used in this study, however, certainly more network densities could be used to provide the distribution of possible simulated discharges.

# 3 Our main interest is not in the parameters but in the model performance. Of course due to calibration model parameters adjust to the available precipitation data. In our

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experiment we considered all 13 subcatchments simultaneously. The selected rainfall networks are uniformly dense over the whole catchment thus (more or less) uniform for each subcatchment. This means that the results corresponding to the subcatchments reflect the network density. Therefore a separate treatment of the subcatchments would lead to similar results.

# 4 The section 3.3 has been moved in section 4.

# 5 The information (N&S criteria) is shown in Fig 10. To avoid the repetitions of the information authors exclude the daily N&S criteria in Table 6.

# 6 The caption of Fig. 4 in the old manuscript (Fig. 6 in the revised manuscript) is revised. An N&S criterion on daily scale is shown.

# 7 The suggested references have been added in the introduction of the revised manuscript.

# 8 The spelling has been corrected.

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