

Interactive comment on “Effectiveness of a regional model calibrated to different parts of a flow regime in regionalisation” by H. S. Kim

Anonymous Referee #3

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The study attempts to examine the possibility of reducing parameter uncertainty by separately calibrating the model for wet and dry periods. Then calibrated parameters were used in regionalization together with selected catchment characteristics. The study concludes that dry season predictions are much better with the used methodology. As such this is a useful research reflecting on an important issue of regionalization in hydrology. However, as noted by the first reviewer, there are significant overlaps between this paper and the previously published work by the author. This raises serious questions about the significant contribution and novelty of this work. For instance, in one of the paper (Kim and Lee, 2014 published in HP), the seasonal calibration for wet and dry periods is already presented in detail concluding that a multi-objective calibration approach is better compared to single objective function. In this paper, the issue

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of dry and wet season calibration is presented in good detail. In the second paper, Kim and Lee (2014) again published in hydrological processes; the regionalization is presented in detail. The author has noted the references of these papers in this paper submitted to publication for HESS and indicated that this paper builds on the previous work. However, considering the significant overlaps, especially major methodological works already published, I do not see significant originality and novelty in this research. Therefore, I do not recommend publication in HESS journal.

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