

Interactive comment on “Towards observation based gridded runoff estimates for Europe” by L. Gudmundsson and S. I. Seneviratne

L. Gudmundsson and S. I. Seneviratne

lukas.gudmundsson@env.ethz.ch

Received and published: 5 February 2015

We thank both reviewers for their helpful feedback on our manuscript. While both reviewers were “surprised” by our approach, they differ in their final evaluation of our study. On the one hand Mr Fekete (Referee #1) “... will support [...] publication in its present form”. On the other hand Referee # 2 does not recommend publication.

At this point we would first like to thank Mr. Fekete for his open minded evaluation of our – admittedly – unconventional approach to runoff estimation. We appreciate his open attitude and would like to thank him for his constructive methodological suggestions.

The main criticism of Referee #2 is related to the fact that we used observed monthly river flow from small catchments as an estimator for monthly grid-cell runoff. We dis-

C6373

agree with this evaluation and provide detailed arguments in our response to his/her concerns. Referee #2 also claims that we did not provide sufficient evaluation on both the grid-cell and the basin scale. We refute this criticism as we have highlighted in our detailed response. (See also the validation presented in Figures 6, 7, 8, 9 and Table 1 in the discussion paper.)

We now have prepared detailed answers to the reviewers comments, including also additional quantitative material on model validation. We are confident that the provided answers address their concerns satisfactorily.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 12883, 2014.