

Interactive comment on “An integrated model for the assessment of global water resources – Part 1: Input meteorological forcing and natural hydrological cycle modules” by N. Hanasaki et al.

T. Wagener (Editor)

thorsten@enr.psu.edu

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Dear Dr. Hanasaki and colleagues,

The authors generally appreciate the depth of analysis and the scope of work. The paper itself is therefore very appropriate for HESS. However, the reviewers also raised some good questions. Addressing the reviewers concerns will help make your paper more accessible to a wider audience. The comments largely related to the readability of the paper and to the amount of motivation provided. Few global models are available and the challenges that have to be overcome are difficult to assess if one has

not attempted to build one oneself. The consequence is that the motivation for this work (in comparison to past efforts) and the justification for (the necessarily strong) assumptions have to be provided very carefully. Two of the referees provided excellent feedback in this regard and the authors need respond to these concerns carefully and in depth in the revised version of the paper for HESS. I strongly encourage to address all the points raised since I believe that doing so will considerably improve the paper. I realize that this is not an easy task considering the extend of the model and the limited space available. In particular the authors should address the following, but also address all points raised by the reviewers:

- Focus the paper on the scientific content. - Describe in detail what the contributions of this two part paper are. - How can confidence in the anthropogenic part of the model be established? - How can such a model be assessed and how could uncertainties be considered?

The revised version will have to be reviewed again, but would be a nice contribution to HESS.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 4, 3535, 2007.

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Interactive Discussion

Discussion Paper