

Interactive comment on “On selection of the optimal data time interval for real-time hydrological forecasting” by J. Liu and D. Han

Anonymous Referee #1

Received and published: 25 November 2012

Dear Author thanks for your reply to my comments

Comment 2) In the manuscript you note a problem (no systematic analysis of model time step choice). I agree a systematic analysis (methodology) is often lacking and this could be a reason for scientific research as attempted in this manuscript. However, when doing so you must give a good overview what is being out there and is being used by the operational agencies. You can provide an overview of what is being used by the EA and in the conclusions reflect on this. I am not asking to do the analysis for each model/area but to put your work in perspective of what is out there and being used.

Comment 3) fair comment, maybe I missed this information in the material and meth-

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ods section. However, it is worthwhile to spend a paragraph on this issue because in operational forecasting the density of raingauge stations is often a lot less than in research mode. I think spending some thoughts (limitations/advantages of your approach also in light of operational constraints etc) on this could also help for extrapolating the conclusions later on.

Comment 4) please adopt the traditional style separating material and methods (including the experimental design) from the results and discussion (see first review)

Comment 5) I am not asking for another study, but repeat the same analysis for your catchments without ARMA model and use that as a baseline. I think the use of the ARMA model influences the outcomes of your study severely (but maybe I am wrong). Without this extra step I don't think you can derive strong conclusions.

Comment 6) Using a traditional style manuscript (comment 4), improving experimental design (see comment 5) and spend time on limitations/advantages of your approach (comment 2&3) can lead to more general/generic conclusions and would enhance the impact of your study

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 9, 10829, 2012.

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