

Interactive comment on “A daily salt balance model for representing stream salinity generation process following land use change” by M. A. Bari and K. R. J. Smettem

E. Zehe (Editor)

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Dear Authors

As you can see from the enclosed reviews of the manuscript “A daily salt balance model for representing stream salinity generation process following land use change” the referees recommend major revisions. The main critical points brought up by both reviewers are: ¶ The title is too general ¶ The manuscript is not clearly structured, e.g. model description is mixed with results ¶ Further information on the characteristics study area and the dominating hydrological processes is needed, so that reader can better evaluate the proposed model structure ¶ The authors should explain the underlying water balance model that far, that the paper is understandable standing alone ¶

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The physical meaning of the parameters C and Cu of the salt balance model should be discussed, especially if the authors propose their model as building block for regional models. Parameter sensitivity and parameter interconnection of the model should be discussed (unfortunately this important issue is presented in a different manuscript). The authors should better work out the innovation and main conclusions from the presented modelling approach.

Please carefully address the reviewers' recommendations within your revised manuscript and prepare a detailed list that explains how you addressed their comments.

Sincerely yours,

Erwin Zehe

Interactive comment on Hydrology and Earth System Sciences Discussions, 2, 1147, 2005.

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