**Hydrology and
Earth System
Sciences
Discussions**

Interactive
Comment

Interactive comment on "Sensitivity analysis of Takagi-Sugeno-Kang rainfall-runoff fuzzy models" *by* A. P. Jacquin and A. Y. Shamseldin

Anonymous Referee #1

Received and published: 4 September 2008

I fully agree with the anonymous referees #2 and #3 (especially the latter).

The paper is very important regarding the ongoing debate about the applicability and prognostic ability of hydrological models. Therefore, a profound sensitivity analysis is absolutely necessary for model evaluation.

However, additionally to the comments of referees #2 and #3 the authors should consider the following remarks. This would be worthwhile because the reader likes to get the main features more easily.

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So, my additional remarks are:

1. p. 1969, line 16ff: Because it is very important to chose data which are informative/representative, the authors should explain/show their data and catchments in the chapter 4.1.

2. page 1973, line 20. This equation needs more explanation. There might be a mistake in V12...p $-> $ V1,2,...p

3. Chapter 3: The indices of the equations have to be checked (sometimes the index m is used in minor or in capital writing). The difference between h and ha must be explained (equation 14 and 15).The symbols in Fig.1 are not consistent with the text. Suggestion: Add a list of symbols!

4. Chapter 5: Was the RSA method additionally applied to the verification data?

5. p. 1986, line 2ff: What are the criteria for "sensitive" and "very sensitive"?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 5, 1967, 2008.

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